

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320024

Luminaire Tested: **GAN-SA0D-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72977 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

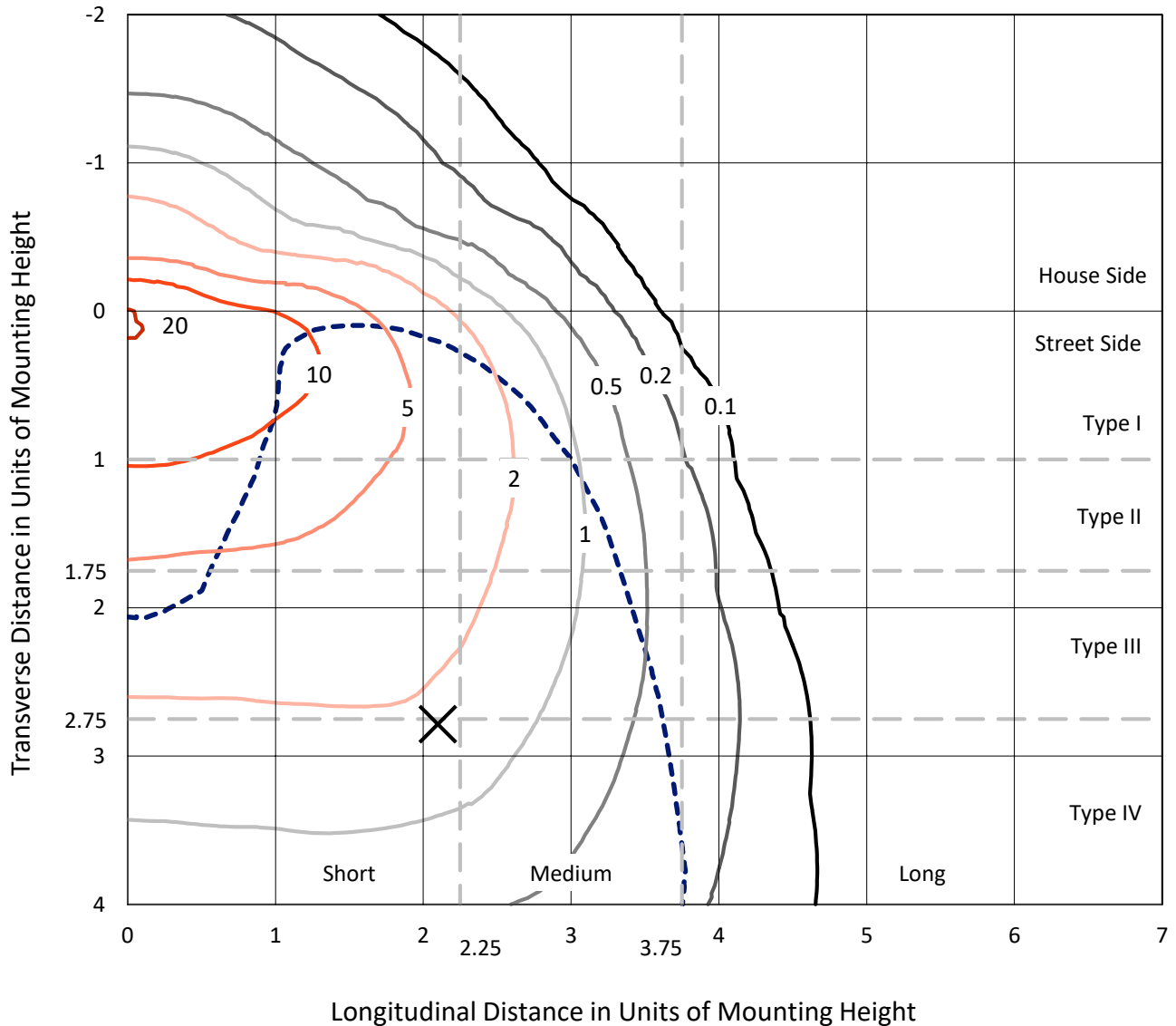
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

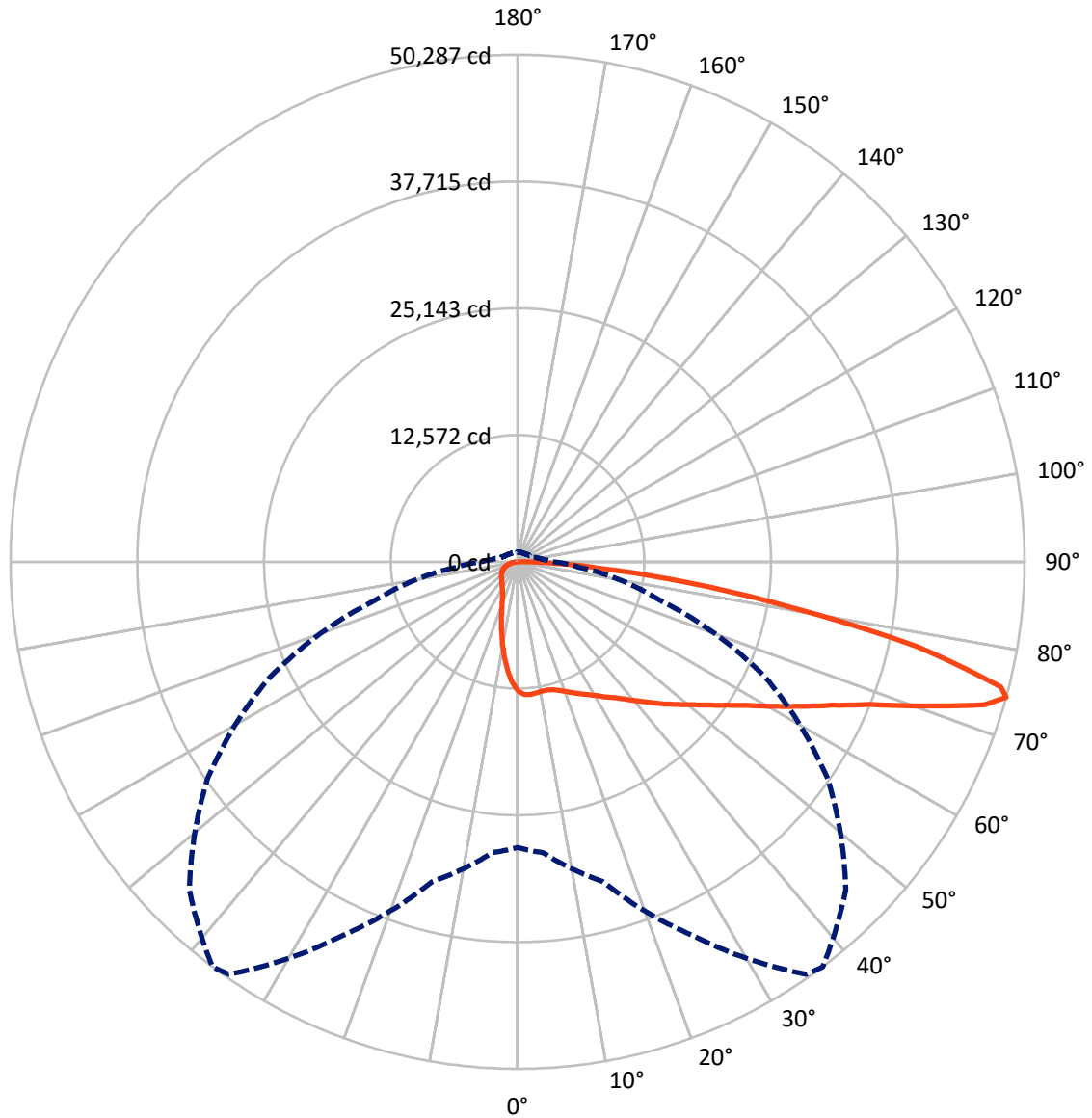
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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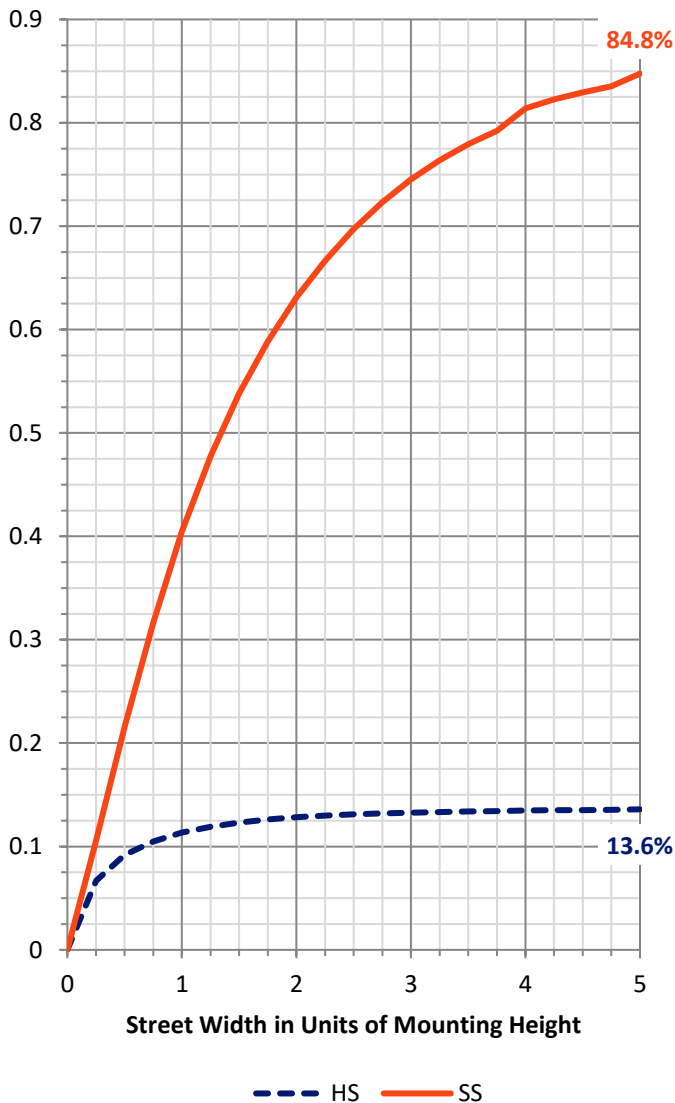
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10041.1	0.0	10041.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	62935.9	0.0	62935.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	72977.0	0.0	72977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.3	1.6
10°-20°	2902.4	4.0
20°-30°	4472.1	6.1
30°-40°	6503.0	8.9
40°-50°	9571.4	13.1
50°-60°	13441.2	18.4
60°-70°	17012.5	23.3
70°-80°	14980.1	20.5
80°-90°	2961.9	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	72977.0	100.0
0°-180°	72977.0	100.0

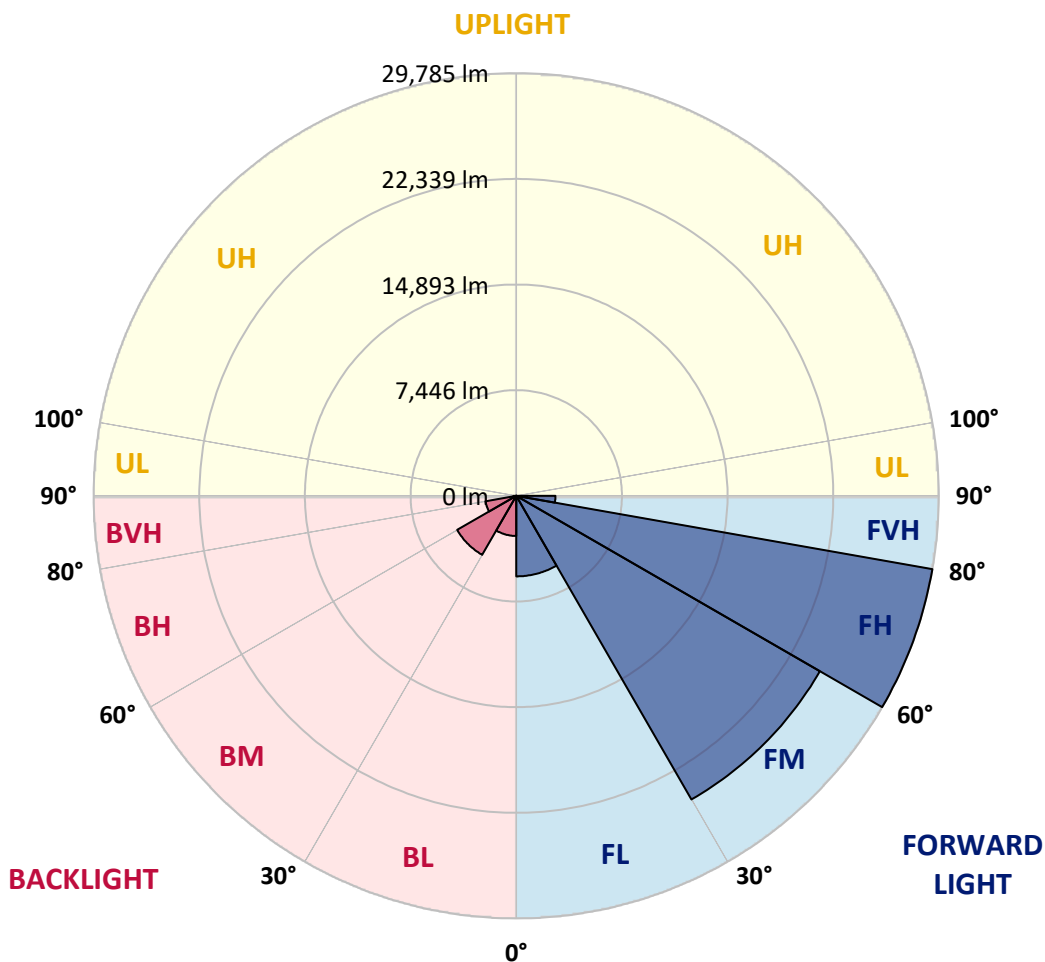


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5678.5	7.8			
FM (30°-60°)	24710.6	33.9			
FH (60°-80°)	29785.5	40.8			G5
FVH (80°-90°)	2761.3	3.8			G5
BL (0°-30°)	2828.3	3.9	B4/5000		
BM (30°-60°)	4805.1	6.6	B3/5000		
BH (60°-80°)	2207.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	200.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3
2.5°	13297.8	13300.4	13297.8	13277.3	13228.4	13187.3	13153.9	13105.0	12997.1	12914.8	12791.4
5°	13423.8	13408.4	13398.1	13359.5	13282.4	13236.1	13171.9	13079.3	12902.0	12737.4	12536.9
7.5°	13364.7	13346.7	13323.5	13277.3	13189.9	13151.3	13061.3	12940.5	12727.2	12511.2	12223.3
10°	13182.2	13177.0	13166.7	13156.5	13081.9	13051.1	12968.8	12840.3	12629.5	12367.3	12030.5
12.5°	12979.1	12991.9	13033.1	13087.1	13053.6	13038.2	12986.8	12899.4	12683.5	12400.7	11994.5
15°	12850.6	12886.5	12997.1	13138.5	13166.7	13161.6	13148.7	13092.2	12863.4	12549.8	12076.8
17.5°	12806.9	12866.0	13076.8	13310.7	13393.0	13410.9	13416.1	13318.4	13063.9	12732.3	12161.6
20°	12886.5	12961.1	13269.6	13590.9	13722.0	13732.3	13709.1	13539.5	13254.1	12889.1	12207.9
22.5°	13128.2	13195.0	13580.6	13943.1	14092.2	14107.6	14038.2	13781.1	13454.6	13074.2	12272.2
25°	13593.5	13675.7	14061.3	14423.8	14500.9	14503.5	14403.2	14084.5	13716.9	13333.8	12411.0
27.5°	14200.1	14282.4	14629.4	14984.2	14943.0	14919.9	14783.7	14464.9	14058.7	13691.1	12657.8
30°	14876.2	14966.2	15295.2	15547.1	15449.5	15403.2	15292.6	14881.3	14534.3	14179.6	13035.6
32.5°	15575.4	15657.7	15945.6	16117.8	15994.4	15973.9	15806.8	15431.5	15153.8	14925.0	13647.4
35°	16292.6	16351.7	16634.5	16732.2	16567.7	16562.5	16516.3	16171.8	15997.0	16105.0	14536.9
37.5°	17025.2	17040.7	17282.3	17287.5	17238.6	17259.2	17308.0	17092.1	17140.9	17477.7	15693.7
40°	17678.2	17719.3	17894.1	17948.1	18032.9	18104.9	18349.1	18207.7	18585.6	19182.0	17133.2
42.5°	18161.5	18241.2	18521.4	18660.2	18935.2	19048.3	19392.8	19523.9	20284.8	21179.4	18845.2
45°	18570.2	18693.6	19143.4	19428.8	19894.1	20092.0	20585.6	21025.1	22205.1	23346.4	20647.3
47.5°	19012.3	19169.1	19732.1	20277.1	20909.5	21133.1	22030.3	22688.3	24253.8	25526.3	22346.4
50°	19662.7	19783.5	20333.6	21189.7	21978.8	22266.8	23508.4	24451.8	26336.0	27603.4	23819.4
52.5°	20570.1	20523.9	20989.2	22189.6	23248.7	23603.5	25086.7	26328.3	28446.5	29482.5	25063.6
55°	21482.7	21405.6	21732.1	23235.9	24729.4	25102.1	26824.5	28212.6	30454.2	31174.0	26017.3
57.5°	22498.1	22351.6	22626.6	24415.8	26415.7	26860.5	28770.4	30215.1	32428.4	32541.5	26624.0
60°	23544.4	23346.4	23654.9	25878.5	28557.1	29081.5	31048.0	32168.8	34289.6	33636.6	26819.3
62.5°	24459.5	24320.7	24796.2	27510.8	30970.9	31546.7	33284.4	34245.9	36125.0	34091.6	26115.0
65°	25259.0	25282.1	26104.7	29346.3	33662.3	34276.7	35849.9	36806.2	37569.7	33821.7	24467.2
67.5°	26212.7	26343.8	27747.3	31762.6	37050.4	37723.9	39582.5	39597.9	38376.9	32238.2	21223.1
70°	27603.4	27873.3	30006.9	35114.7	41867.8	42793.2	44227.6	41238.0	37243.2	27945.3	16698.8
72.5°	28837.3	29341.1	32410.4	38950.1	47739.1	48440.9	46944.7	40292.0	32505.5	20942.9	10403.3
74°	28336.0	28960.7	32847.4	40839.5	49949.8	50286.6	46027.0	37531.1	27102.1	14503.5	6046.1
75°	27256.3	27935.0	32209.9	40821.5	49669.6	49482.0	43811.2	34377.0	22320.7	9891.8	4023.0
77.5°	21996.8	22714.0	27140.7	34986.2	40726.4	40549.0	33654.6	23061.1	9776.1	3244.1	2043.6
80°	12788.9	13336.4	16847.9	22217.9	27462.0	27783.3	22133.1	11411.0	3845.7	1822.6	1385.6
82.5°	5681.1	6059.0	8138.6	11341.6	16572.8	16986.7	11590.9	5979.3	2375.3	1107.9	832.9
85°	3727.4	4007.6	4940.7	5400.9	7891.8	8174.6	5673.4	4655.4	1568.1	609.2	611.8
87.5°	2681.2	2951.1	3670.9	3205.6	3622.0	3429.2	3087.3	4308.4	629.8	347.0	205.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3	12858.3
2.5°	12737.4	12696.3	12603.8	12429.0	12331.3	12249.0	12112.8	12033.1	11997.1	11994.5	12010.0
5°	12421.3	12326.1	12087.1	11794.0	11560.1	11346.7	11082.0	10922.6	10809.5	10742.6	10760.6
7.5°	12053.7	11904.6	11529.3	11061.4	10686.1	10272.2	9863.5	9619.3	9429.1	9287.7	9313.4
10°	11801.7	11596.1	11048.5	10375.0	9750.4	9148.9	8585.9	8249.1	7981.8	7776.1	7791.6
12.5°	11716.9	11439.3	10680.9	9781.2	8904.6	8082.0	7346.8	6830.1	6555.1	6321.2	6339.2
15°	11729.8	11357.0	10372.5	9246.5	8143.7	7107.8	6215.8	5611.7	5238.9	5077.0	5079.6
17.5°	11740.0	11261.9	10048.6	8673.3	7390.5	6197.8	5228.7	4616.8	4264.7	4115.6	4118.1
20°	11706.6	11107.7	9647.6	8015.2	6603.9	5362.3	4424.0	3904.8	3637.4	3521.8	3521.8
22.5°	11662.9	10925.2	9195.1	7354.6	5827.6	4637.4	3848.2	3452.3	3298.1	3221.0	3218.4
25°	11683.5	10788.9	8732.4	6675.9	5113.0	4059.0	3465.2	3203.0	3100.2	3051.3	3048.8
27.5°	11794.0	10724.6	8305.7	5999.8	4488.3	3624.6	3208.1	3023.1	2956.2	2925.4	2925.4
30°	11994.5	10724.6	7861.0	5424.0	3969.0	3303.3	3010.2	2884.2	2838.0	2817.4	2817.4
32.5°	12344.1	10783.8	7431.7	4853.3	3555.2	3051.3	2845.7	2760.9	2724.9	2714.6	2714.6
35°	12945.7	10984.3	7012.7	4313.5	3221.0	2845.7	2688.9	2640.0	2614.3	2611.8	2619.5
37.5°	13791.4	11393.0	6619.4	3915.1	2984.5	2678.6	2557.8	2519.2	2503.8	2516.6	2526.9
40°	14855.6	11948.3	6262.0	3555.2	2804.6	2544.9	2437.0	2411.2	2403.5	2421.5	2437.0
42.5°	16141.0	12698.9	5969.0	3295.5	2665.7	2431.8	2334.1	2303.3	2295.6	2316.1	2336.7
45°	17531.7	13506.1	5763.3	3102.7	2557.8	2347.0	2244.2	2210.7	2195.3	2205.6	2228.7
47.5°	18796.4	14269.5	5681.1	2966.5	2454.9	2275.0	2164.5	2123.3	2097.6	2092.5	2110.5
50°	19863.2	14837.6	5719.6	2884.2	2372.7	2195.3	2087.3	2041.1	2002.5	1979.4	1992.2
52.5°	20639.5	15195.0	5755.6	2848.3	2308.4	2107.9	2002.5	1958.8	1907.4	1868.8	1868.8
55°	21202.5	15277.2	5675.9	2820.0	2259.6	2012.8	1907.4	1866.3	1814.9	1771.2	1766.0
57.5°	21423.6	15045.9	5380.3	2778.8	2226.2	1922.8	1807.1	1776.3	1732.6	1681.2	1678.6
60°	21125.4	14331.2	4809.6	2691.4	2182.5	1848.3	1706.9	1686.3	1665.8	1616.9	1614.4
62.5°	19927.5	12763.2	4071.9	2514.1	2095.1	1768.6	1614.4	1624.6	1627.2	1593.8	1588.6
65°	17755.3	10609.0	3352.1	2282.7	1964.0	1673.5	1519.2	1568.1	1596.4	1591.2	1583.5
67.5°	14598.6	8256.8	2840.5	2038.5	1791.7	1542.4	1416.4	1473.0	1496.1	1514.1	1509.0
70°	10835.2	5822.5	2349.6	1781.4	1583.5	1388.1	1282.7	1311.0	1295.6	1316.2	1323.9
72.5°	6041.0	3493.5	1915.1	1524.4	1367.6	1208.2	1133.6	1128.5	1095.1	1095.1	1095.1
74°	3624.6	2562.9	1683.8	1365.0	1236.5	1089.9	1025.7	1002.5	971.7	974.3	971.7
75°	2915.1	2203.0	1544.9	1259.6	1143.9	1020.5	956.3	925.4	902.3	902.3	899.7
77.5°	1840.6	1673.5	1244.2	1002.5	915.1	840.6	796.9	755.8	755.8	753.2	750.6
80°	1390.7	1331.6	969.1	758.3	701.8	645.2	616.9	599.0	599.0	606.7	604.1
82.5°	953.7	1002.5	681.2	529.5	501.3	460.1	455.0	457.6	449.9	439.6	437.0
85°	696.6	753.2	460.1	334.2	305.9	280.2	300.8	311.0	298.2	275.1	264.8
87.5°	267.3	493.6	246.8	138.8	128.5	110.5	128.5	133.7	144.0	113.1	115.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)