

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: P383694

Luminaire Tested: **GAN-SA9D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66291.7 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

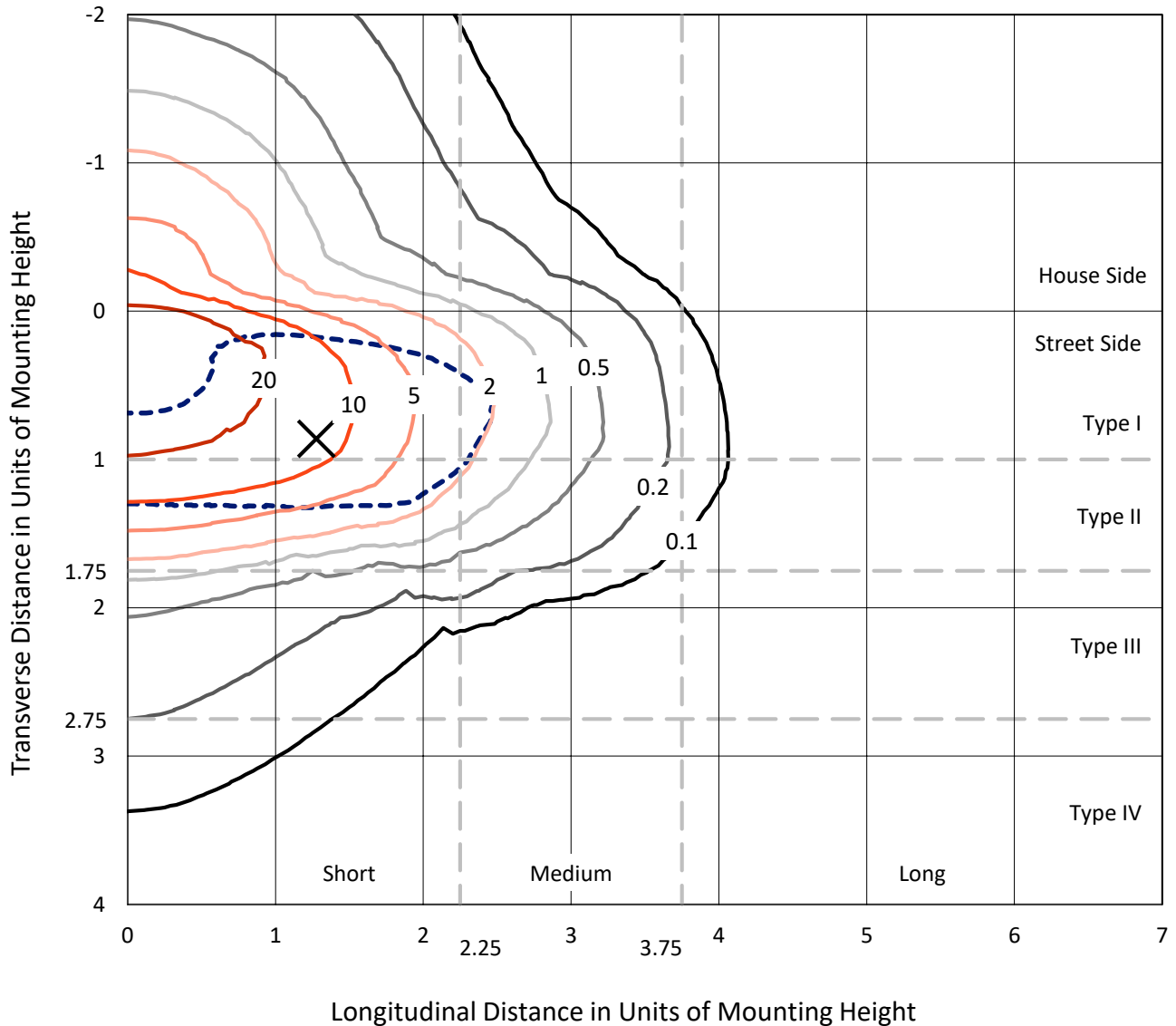
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383694
 CATALOG NUMBER: GAN-SA9D-735-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

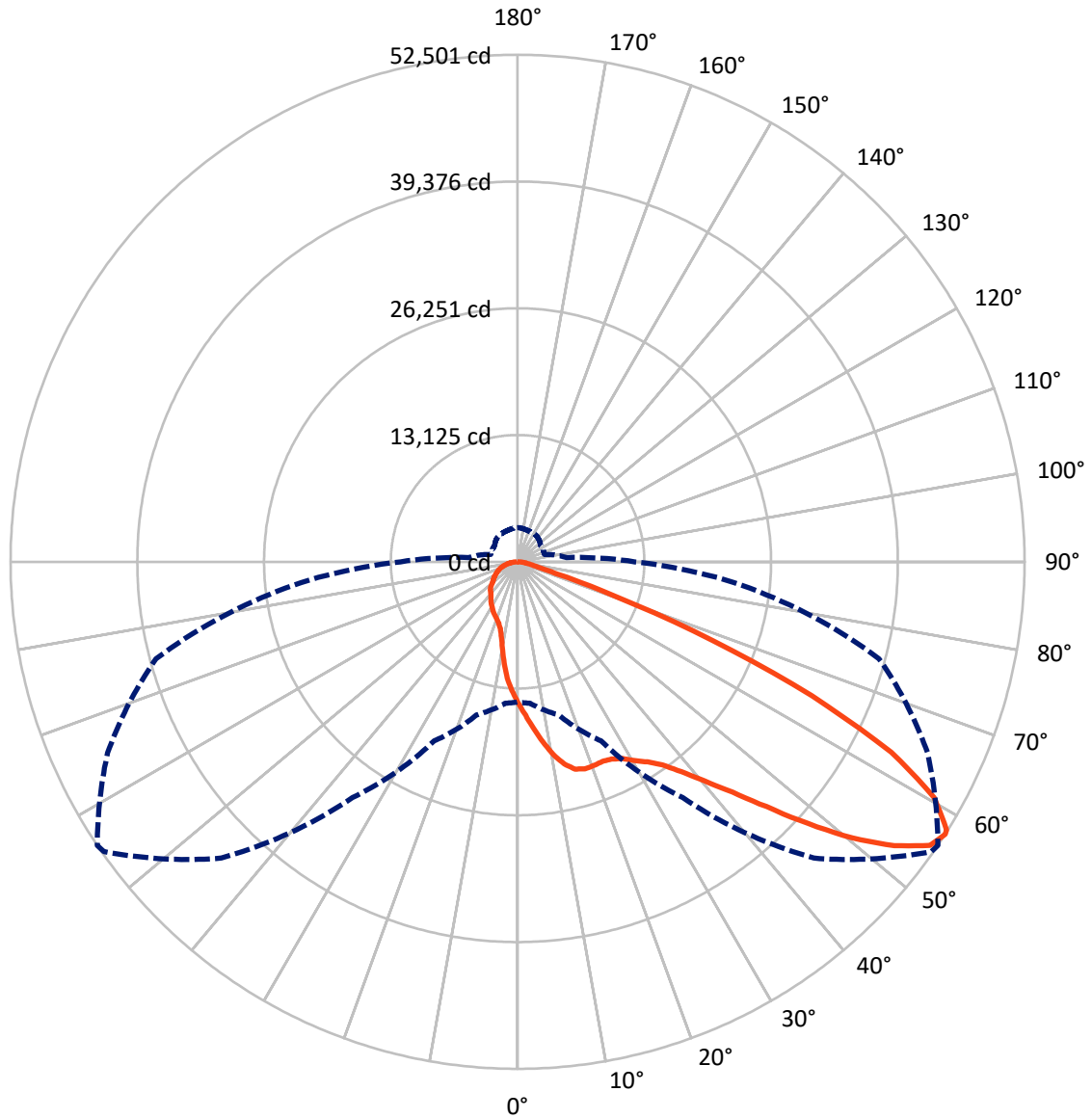
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.6 fc
 Type II - Short - N/A

REPORT NUMBER: P383694
CATALOG NUMBER: GAN-SA9D-735-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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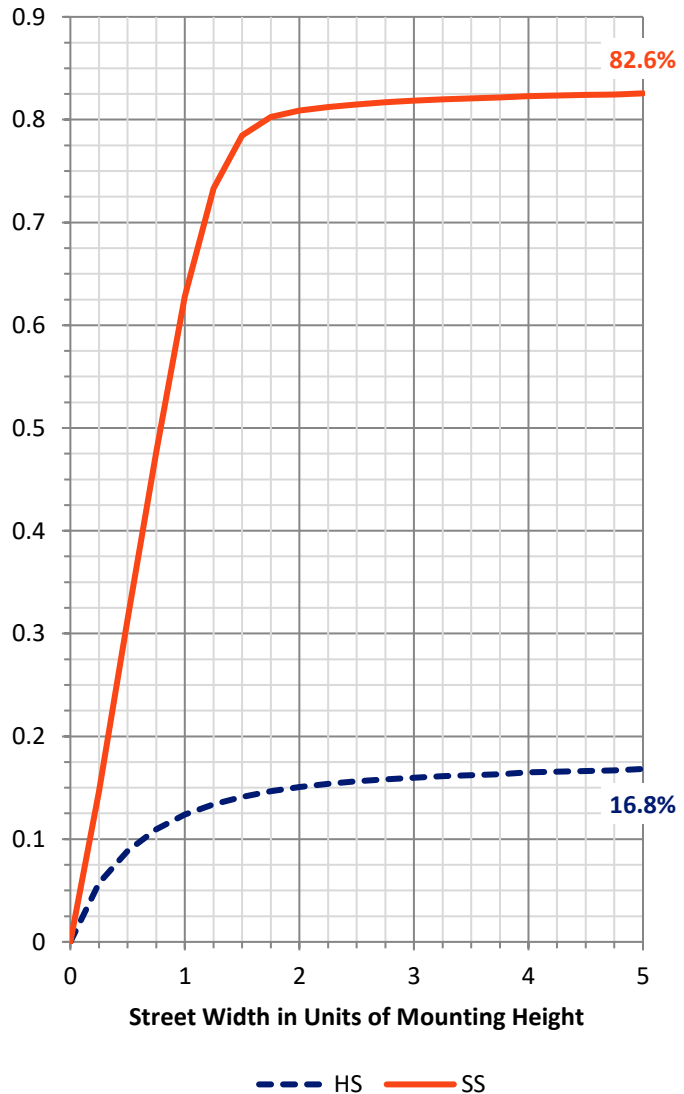
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11427.3	0.0	11427.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	54864.4	0.0	54864.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	66291.7	0.0	66291.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1404.6	2.1
10°-20°	3971.0	6.0
20°-30°	6468.0	9.8
30°-40°	9669.0	14.6
40°-50°	14665.8	22.1
50°-60°	16437.7	24.8
60°-70°	9708.8	14.6
70°-80°	3181.0	4.8
80°-90°	785.9	1.2
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°	66291.7	100.0
0°-180°	66291.7	100.0

Coefficient of Utilization

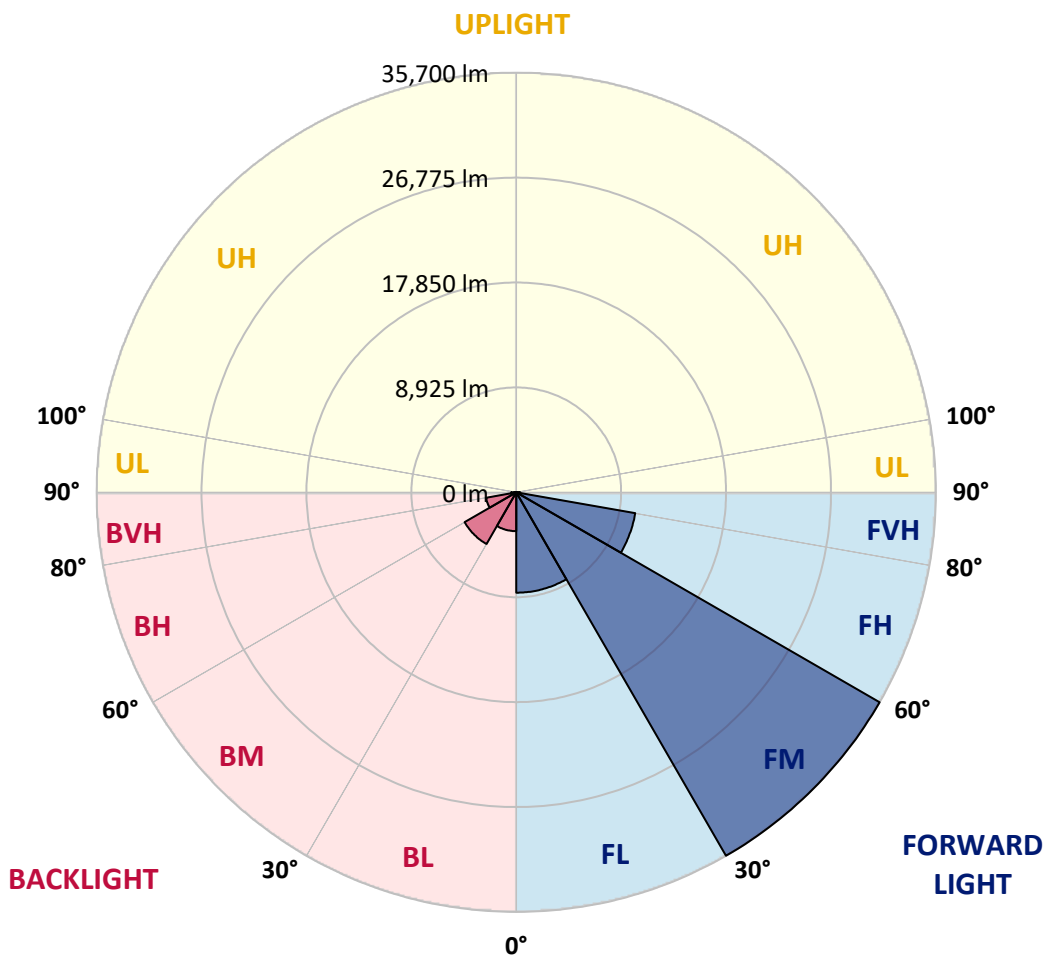


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 CATALOG NUMBER: GAN-SA9D-735-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8539.4	12.9			
FM (30°-60°)	35700.3	53.9			
FH (60°-80°)	10278.7	15.5			G4/12000
FVH (80°-90°)	346.0	0.5			G3/500
BL (0°-30°)	3304.2	5.0	B4/5000		
BM (30°-60°)	5072.2	7.7	B4/8500		
BH (60°-80°)	2611.0	3.9	B4/5000		G4/5000
BVH (80°-90°)	439.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5
2.5°	16883.8	17038.8	16970.4	16733.5	16551.2	16293.8	16006.7	15920.1	15617.1	15277.7	14869.8
5°	19556.2	19478.7	19367.1	18998.0	18608.4	18155.0	17435.1	17321.2	16646.8	15879.2	15068.1
7.5°	21078.0	21071.1	21005.1	20788.7	20433.2	19840.9	18972.9	18838.5	17820.1	16585.4	15327.8
10°	20857.0	20841.0	20950.4	21175.9	21283.1	21160.0	20428.7	20294.3	19043.5	17366.7	15628.5
12.5°	19601.7	19610.8	19786.3	20260.1	20904.9	21679.4	21560.9	21494.9	20312.5	18250.7	15993.0
15°	18624.3	18644.8	18783.8	19196.2	19957.1	21362.8	22249.0	22271.8	21540.5	19225.8	16419.1
17.5°	18196.1	18239.3	18303.1	18592.5	19289.6	20731.7	22413.0	22536.1	22615.7	20237.3	16829.2
20°	18332.8	18373.8	18392.0	18576.5	19148.3	20349.0	22299.1	22520.1	23440.5	21189.6	17239.2
22.5°	18945.6	18970.7	18982.1	19029.8	19474.1	20458.3	22223.9	22456.4	24037.4	22044.0	17549.1
25°	19961.7	19943.4	19870.6	19809.0	20107.5	20891.2	22397.1	22618.1	24522.6	22818.5	17751.9
27.5°	21178.3	21155.4	21014.2	20845.6	21016.5	21565.5	22896.0	23071.5	24957.7	23543.0	17854.3
30°	22638.6	22579.3	22312.8	22112.3	22178.4	22577.1	23718.4	23877.9	25629.9	24365.5	17954.6
32.5°	24326.7	24262.9	23877.9	23545.3	23545.3	23877.9	24565.9	24698.0	26199.4	25295.0	18116.4
35°	26440.9	26361.1	25859.9	25301.8	25144.6	25313.2	25721.0	25814.4	27224.6	26465.9	18410.2
37.5°	28933.2	28826.2	28176.9	27429.6	27085.7	27076.5	27370.5	27561.8	28862.6	28003.7	18909.1
40°	31432.5	31357.3	30790.0	30202.3	29527.9	29311.4	29764.8	29824.1	31004.1	29912.9	19547.0
42.5°	33364.4	33350.7	33245.9	33323.4	32633.0	32195.7	32551.1	32598.9	33619.6	31979.2	20225.9
45°	34385.0	34407.8	34915.8	36041.3	36296.4	35977.5	36152.9	36166.6	36608.5	34063.8	20847.8
47.5°	33567.1	33685.6	34970.5	37487.9	39577.1	40636.4	40344.8	40513.4	39506.5	35854.4	21335.4
50°	30379.9	30525.7	32712.8	36843.2	41108.0	45145.0	44992.4	44953.6	41843.9	37166.7	21599.7
52.5°	26431.8	26545.7	28350.1	33491.9	39984.8	47637.4	49038.4	48838.0	43921.6	38148.6	21649.8
55°	20419.6	20597.3	22326.5	26803.1	35442.1	46685.1	52013.8	51833.8	45814.8	38663.5	21590.6
57°	14516.8	14703.5	16421.3	20456.0	29814.9	43388.5	52309.9	52501.4	46837.7	38750.1	21656.6
57.5°	12953.9	13145.3	14847.1	18765.7	28060.7	42197.0	52054.8	52373.7	47022.3	38736.4	21693.1
60°	6522.5	6595.5	7679.9	10475.3	17738.2	34113.9	48726.4	49548.7	47188.6	38066.6	21850.3
62.5°	4055.2	4002.9	3968.7	4825.2	8629.9	22622.6	41857.5	43440.9	44005.9	36444.6	21469.8
65°	3565.4	3467.4	3091.5	3023.2	3811.4	10987.8	31521.3	33491.9	37205.5	33888.4	20563.1
67.5°	3349.0	3253.2	2829.6	2574.3	2576.7	4355.9	19569.9	21788.8	28983.4	29566.6	18423.9
70°	3125.7	3039.2	2642.7	2342.0	2193.9	2412.6	9003.5	10687.1	18893.2	23240.0	15398.4
72.5°	2838.6	2779.5	2403.5	2093.7	1936.5	1806.6	3446.9	4071.1	10937.7	15608.0	10693.9
75°	2537.9	2483.2	2162.0	1865.9	1674.5	1421.6	1941.1	2091.4	5556.6	7985.1	5264.9
77.5°	2207.6	2175.7	1922.8	1649.4	1496.8	1177.8	1373.8	1446.7	2383.0	3424.2	2640.5
80°	1756.5	1818.0	1681.4	1469.4	1328.2	943.2	972.8	1020.6	1387.4	1672.2	1499.0
82.5°	1143.7	1250.7	1316.8	1193.8	1093.5	742.7	699.4	719.9	904.4	1020.6	651.5
85°	476.1	535.4	865.7	781.4	726.8	542.3	469.3	478.4	560.4	580.9	266.5
87.5°	211.8	225.5	380.4	357.7	307.6	186.8	200.5	218.7	298.5	282.5	102.6
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°	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5	14703.5
2.5°	14717.2	14525.9	14197.8	13835.5	13539.4	13302.5	13063.3	12899.2	12707.9	12605.3	12553.0
5°	14728.6	14352.7	13662.4	12953.9	12320.6	11741.9	11190.6	10766.8	10370.5	10156.3	10097.0
7.5°	14776.5	14211.5	13095.1	11928.7	10803.3	9775.8	8983.0	8486.3	8128.7	7969.2	7923.7
10°	14815.2	14045.1	12393.5	10666.6	9135.6	8094.5	7479.4	7201.4	7078.4	7057.9	7037.4
12.5°	14906.3	13874.3	11655.3	9349.8	7839.3	7119.4	6905.3	6887.0	6921.2	6971.3	6971.3
15°	15049.9	13705.7	10812.4	8219.8	7014.6	6761.7	6805.0	6905.3	6998.6	7076.1	7087.5
17.5°	15154.7	13498.4	9905.6	7315.4	6575.0	6643.2	6798.2	6939.5	7035.1	7110.3	7117.1
20°	15229.9	13177.2	8937.5	6625.1	6322.0	6533.9	6727.5	6852.8	6918.9	6994.1	7005.5
22.5°	15191.1	12746.6	8078.6	6130.7	6117.0	6374.4	6558.9	6709.3	6659.2	6586.3	6634.1
25°	15004.3	12154.3	7194.6	5761.6	5900.6	6160.3	6388.1	6287.9	6119.2	6087.4	6105.6
27.5°	14671.7	11397.9	6376.7	5419.8	5649.9	5962.1	5948.4	5848.2	5788.9	5747.9	5773.0
30°	14314.0	10577.7	5661.4	5121.4	5372.0	5629.4	5577.1	5574.8	5515.5	5449.5	5481.4
32.5°	13960.8	9753.0	5094.1	4875.3	5162.5	5196.6	5310.5	5344.7	5228.5	5089.5	5080.4
35°	13653.3	8973.9	4663.5	4652.1	4909.5	4914.1	5080.4	5032.6	4743.3	4599.7	4599.7
37.5°	13423.2	8197.0	4335.4	4451.6	4576.9	4695.4	4779.7	4581.4	4533.7	4453.9	4451.6
40°	13323.0	7513.5	4130.4	4299.0	4342.2	4492.7	4276.2	4353.7	4376.4	4335.4	4335.4
42.5°	13218.2	6918.9	3952.6	4182.8	4175.9	4155.4	4046.1	4146.3	4237.4	4239.8	4233.0
45°	13113.4	6406.3	3795.5	3934.5	4030.2	3809.2	3829.7	3936.7	4064.3	4109.9	4109.9
47.5°	12997.2	6000.8	3651.9	3672.4	3820.6	3672.4	3656.5	3738.6	3888.9	3961.8	3977.7
50°	12742.0	5636.3	3487.9	3442.3	3483.3	3533.5	3547.1	3585.9	3752.2	3868.4	3895.7
52.5°	12388.9	5310.5	3278.3	3230.5	3230.5	3419.6	3483.3	3494.8	3636.0	3775.0	3802.3
55°	12095.0	5103.2	3061.9	3052.8	3043.6	3298.9	3408.2	3426.4	3524.4	3633.8	3647.4
57°	12115.5	5087.3	2895.6	2904.8	2902.4	3175.8	3337.5	3376.3	3426.4	3519.9	3535.8
57.5°	12126.9	5098.6	2859.2	2863.7	2861.4	3141.6	3317.1	3360.4	3399.1	3497.0	3513.0
60°	12297.7	5128.3	2711.1	2661.0	2672.3	2959.4	3200.9	3255.6	3280.6	3410.5	3431.0
62.5°	12044.9	4996.1	2592.6	2471.9	2471.9	2768.0	3039.2	3125.7	3164.5	3339.9	3374.1
65°	11311.3	4624.8	2453.6	2257.7	2280.5	2576.7	2845.5	2986.7	3046.0	3264.7	3301.1
67.5°	10179.0	4194.2	2305.6	2066.4	2089.1	2376.2	2645.0	2797.6	2891.1	3182.6	3212.3
70°	8705.0	3667.9	2105.1	1863.6	1890.9	2157.5	2408.1	2581.2	2720.2	3105.2	3114.3
72.5°	6417.7	3007.2	1824.8	1640.3	1669.9	1902.3	2168.8	2369.3	2556.2	2911.6	2907.0
75°	3816.0	2351.1	1515.0	1414.7	1435.2	1651.7	1952.4	2196.2	2476.4	2836.4	2879.7
77.5°	2314.6	1770.1	1234.8	1184.6	1209.7	1430.7	1797.5	2057.2	2442.2	2674.7	2661.0
80°	1398.8	1264.4	986.5	954.6	979.6	1223.4	1663.1	1952.4	2134.6	2285.1	2285.1
82.5°	731.3	772.3	724.5	699.4	733.6	993.3	1512.7	1704.1	1886.4	1619.8	1512.7
85°	298.5	403.3	439.7	437.5	457.9	688.0	1305.4	1458.1	1216.6	1155.0	1182.4
87.5°	100.2	170.8	214.2	184.5	193.7	432.9	904.4	704.0	836.1	583.2	553.6
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)