

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: P321892

Luminaire Tested: **GAN-SA8C-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36725 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

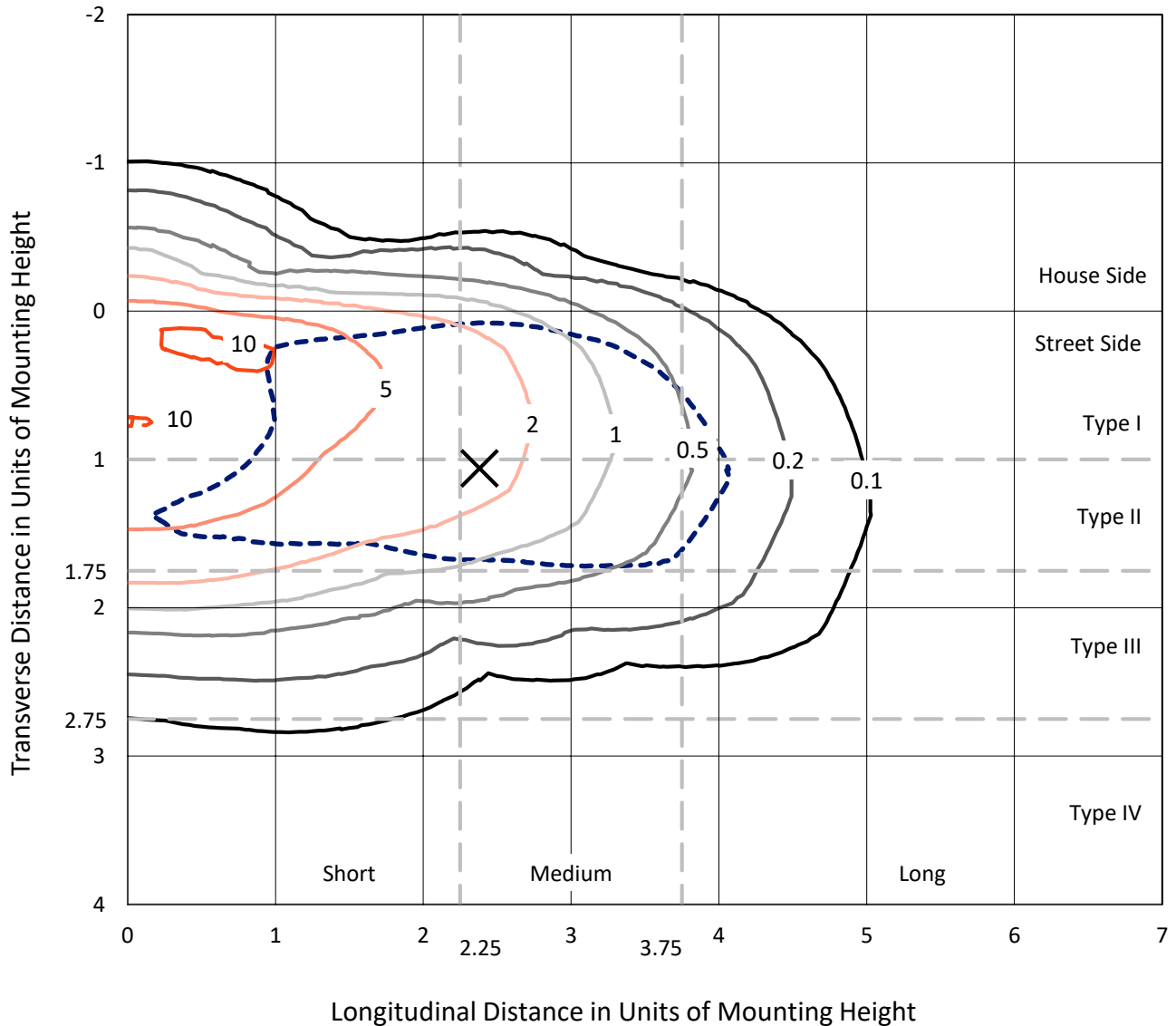
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

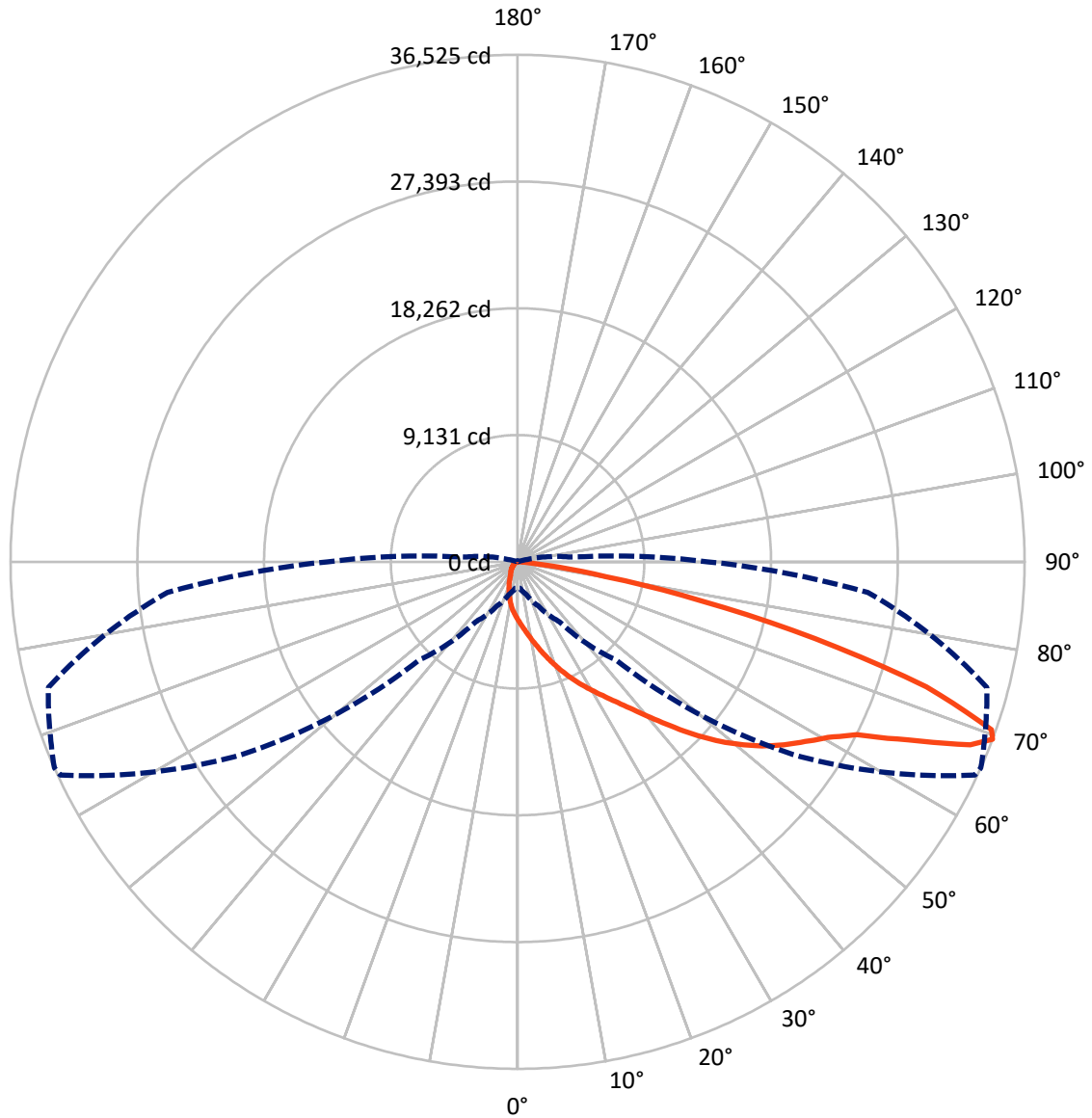
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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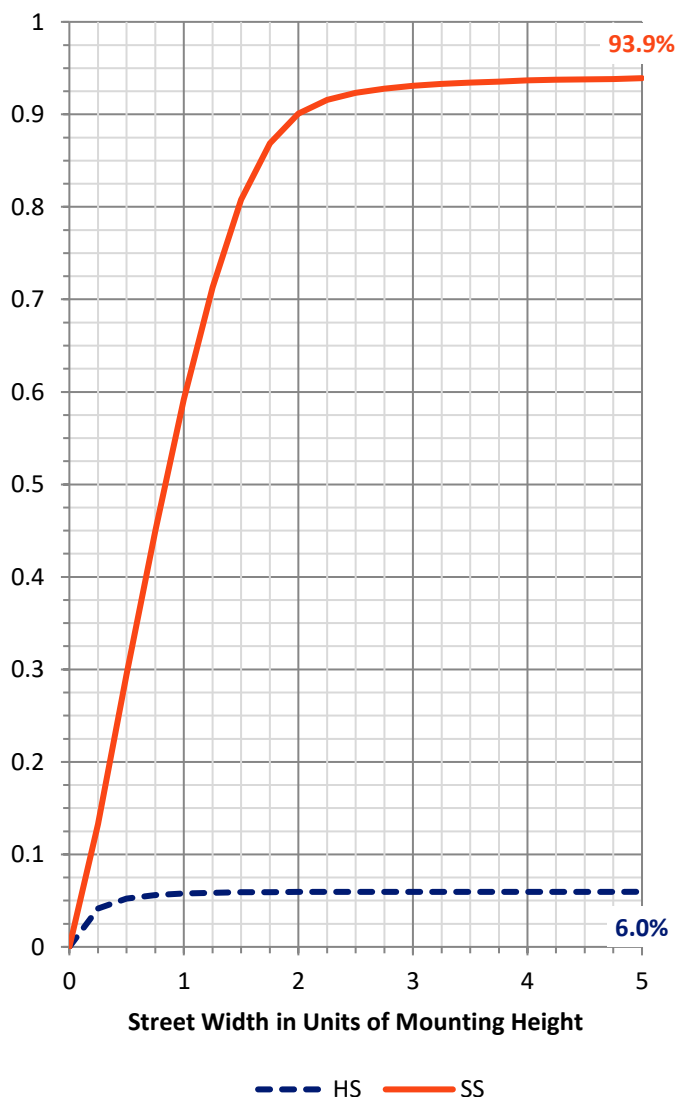
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2203.0	0.0	2203.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	34522.0	0.0	34522.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	36725.0	0.0	36725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	1.1
10°-20°	1202.4	3.3
20°-30°	2093.8	5.7
30°-40°	3673.5	10.0
40°-50°	6148.9	16.7
50°-60°	9038.3	24.6
60°-70°	9280.0	25.3
70°-80°	4581.3	12.5
80°-90°	302.9	0.8
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°	36725.0	100.0
0°-180°	36725.0	100.0

Coefficient of Utilization



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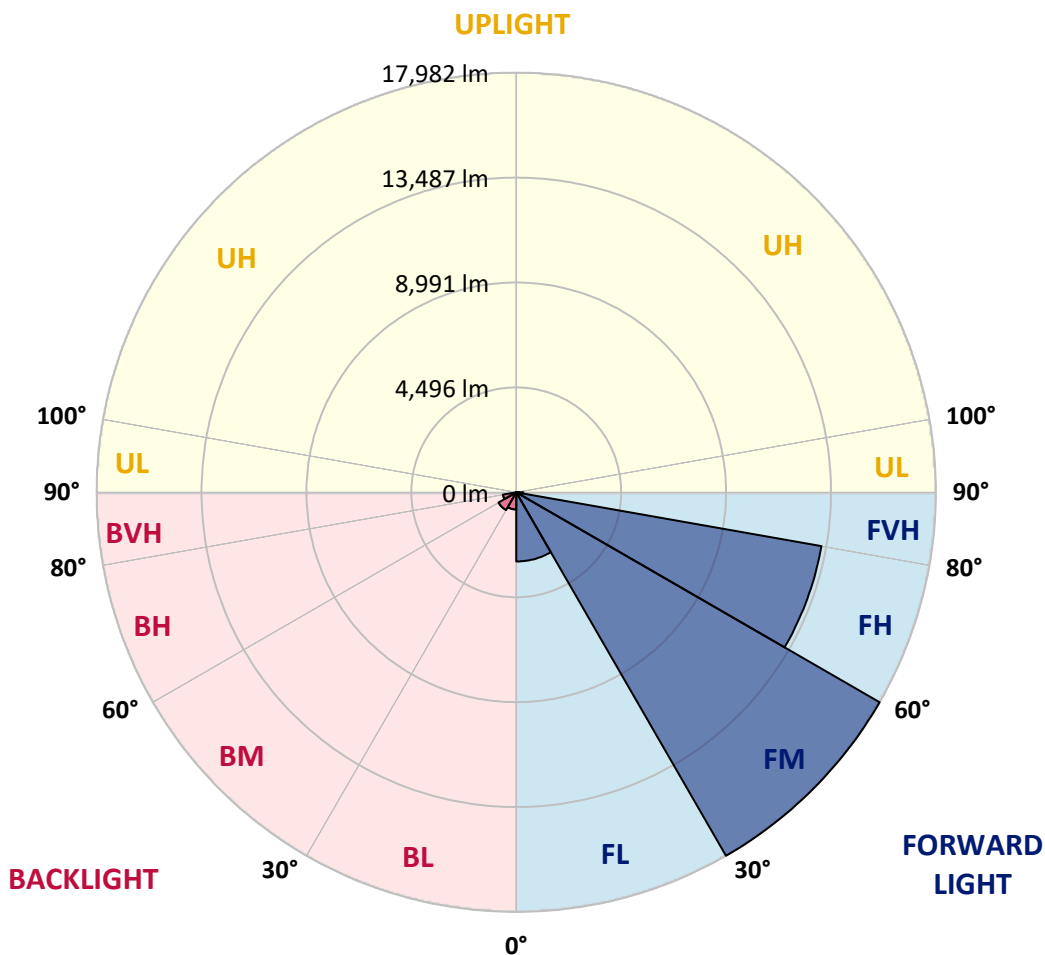
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.4	8.1			
FM (30°-60°)	17982.3	49.0			
FH (60°-80°)	13280.7	36.2			G5
FVH (80°-90°)	295.6	0.8			G3/500
BL (0°-30°)	736.8	2.0	B2/1000		
BM (30°-60°)	878.3	2.4	B1/1000		
BH (60°-80°)	580.6	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4
2.5°	4919.0	4898.1	4889.4	4851.0	4784.7	4734.1	4636.4	4523.1	4502.1	4392.2	4257.9
5°	5557.4	5540.0	5527.8	5473.7	5405.7	5278.4	5100.4	4889.4	4849.2	4639.9	4371.3
7.5°	6002.3	6033.6	6033.6	5998.8	5913.3	5817.4	5599.3	5311.5	5260.9	4940.0	4523.1
10°	6262.2	6300.5	6330.2	6359.8	6347.6	6309.3	6103.4	5779.0	5717.9	5292.3	4699.2
12.5°	6286.6	6325.0	6408.7	6532.5	6652.9	6740.1	6611.0	6297.0	6227.3	5700.5	4908.6
15°	6150.5	6190.6	6319.7	6560.4	6851.7	7106.4	7148.3	6870.9	6799.4	6187.2	5170.2
17.5°	5913.3	5939.5	6124.4	6457.5	6914.5	7382.0	7634.9	7486.7	7420.4	6743.6	5461.5
20°	5737.1	5756.3	5918.5	6276.1	6876.2	7554.7	8095.5	8140.8	8071.0	7340.2	5777.2
22.5°	6038.9	6073.8	6079.0	6248.2	6771.5	7640.2	8500.1	8784.5	8732.1	7973.3	6087.7
25°	6864.0	6904.1	6771.5	6666.8	6860.5	7678.6	8847.3	9443.8	9402.0	8655.4	6400.0
27.5°	7954.2	7996.0	7825.1	7512.8	7326.2	7823.3	9156.0	10113.6	10111.9	9377.5	6736.6
30°	9025.2	9067.0	8892.6	8580.4	8151.3	8233.3	9422.9	10814.9	10825.3	10122.4	7094.2
32.5°	10148.5	10200.9	10021.2	9620.0	9171.7	8941.5	9797.9	11519.6	11578.9	10985.8	7497.1
35°	11425.4	11432.4	11179.4	10759.0	10242.7	9888.6	10399.7	12309.8	12451.1	12055.1	8008.2
37.5°	12677.8	12728.4	12520.8	11858.0	11383.5	10982.3	11294.6	13297.1	13497.7	13361.6	8676.3
40°	13605.8	13712.2	13682.6	12967.4	12517.3	12231.3	12405.7	14471.0	14725.7	14882.7	9518.8
42.5°	14188.4	14268.6	14404.7	13973.9	13565.7	13612.8	13717.4	15838.5	16152.5	16616.5	10486.9
45°	14856.5	14894.9	15008.2	14818.1	14542.5	15017.0	15109.4	17378.8	17708.5	18481.2	11561.4
47.5°	15672.8	15763.5	15794.9	15620.5	15494.9	16258.9	16450.8	18779.5	19241.7	20478.5	12698.7
50°	16712.5	16736.9	16791.0	16677.6	16552.0	17326.5	17654.4	20250.0	20670.4	22482.7	13820.4
52.5°	17729.4	17816.6	18005.0	17933.5	17882.9	18235.3	18727.2	21575.7	22044.9	24153.8	14940.2
55°	18022.5	18097.5	18748.1	19192.9	19604.6	19355.1	19752.8	22763.6	23271.2	25646.9	16018.2
57.5°	16852.0	17003.8	18130.6	19288.8	20996.5	21096.0	21162.3	23982.8	24438.1	26791.2	17139.8
60°	13893.6	13923.3	15772.3	17759.1	20766.3	22615.3	23220.6	25292.8	25674.8	27857.0	18483.0
62.5°	8836.8	9138.6	11167.2	13972.1	18331.2	22395.5	25709.7	27274.4	27413.9	29135.6	20408.7
65°	4209.1	4404.4	5866.2	8632.7	13277.9	19581.9	27427.9	30859.0	30921.8	31670.1	22981.6
67.5°	2330.4	2424.6	3120.6	4646.9	7762.3	13848.3	26733.7	35104.7	35164.0	34258.7	25238.8
69°	1822.8	1903.1	2450.8	3502.6	5262.7	9953.2	24192.2	36348.4	36524.6	35000.1	25319.0
70°	1547.2	1625.7	2110.6	2958.4	4231.8	7690.8	21533.8	36039.7	36226.3	34930.3	24720.7
72.5°	947.2	992.5	1405.9	2082.7	2836.3	3868.9	13279.6	30478.7	30794.5	32041.7	21246.0
75°	638.4	662.8	879.1	1437.3	2028.7	1992.0	6898.8	21483.2	22167.0	24924.8	15692.0
77.5°	457.0	479.7	589.6	929.7	1421.6	1315.2	3124.1	13351.1	13497.7	14948.9	8557.7
80°	259.9	280.8	416.9	553.0	964.6	877.4	1242.0	6377.3	6450.5	6410.4	2857.2
82.5°	136.1	153.5	228.5	364.6	619.2	573.9	516.3	2135.1	2145.5	1784.5	626.2
85°	26.2	31.4	113.4	249.4	319.2	249.4	211.1	500.6	511.1	451.8	155.2
87.5°	0.0	1.7	45.4	55.8	62.8	64.5	68.0	97.7	104.7	141.3	41.9
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°	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4	4179.4
2.5°	4198.6	4135.8	4015.5	3875.9	3767.8	3661.4	3577.6	3490.4	3459.0	3443.3	3441.6
5°	4240.5	4107.9	3853.2	3591.6	3377.0	3174.7	3029.9	2892.1	2827.6	2797.9	2785.7
7.5°	4310.2	4097.4	3687.5	3288.1	2979.3	2726.4	2525.8	2375.8	2300.8	2269.4	2257.2
10°	4392.2	4083.5	3493.9	2967.1	2572.9	2311.2	2112.4	1964.1	1882.1	1847.2	1829.8
12.5°	4488.2	4059.1	3270.6	2642.7	2225.8	1964.1	1723.4	1540.2	1446.1	1405.9	1386.7
15°	4606.8	4034.6	3036.9	2337.4	1920.5	1601.3	1337.9	1214.1	1194.9	1187.9	1189.6
17.5°	4723.7	3996.3	2782.2	2035.6	1599.6	1250.7	1116.4	1109.4	1112.9	1112.9	1112.9
20°	4828.3	3909.1	2504.9	1777.5	1294.3	1055.3	1027.4	1015.2	1006.5	999.5	990.8
22.5°	4910.3	3792.2	2238.0	1521.1	1057.1	966.4	922.8	884.4	853.0	832.0	821.6
25°	4966.1	3636.9	1993.8	1275.1	950.7	879.1	800.6	736.1	687.3	657.6	645.4
27.5°	5008.0	3469.5	1775.7	1067.5	877.4	778.0	675.1	598.3	547.7	521.6	511.1
30°	5037.6	3279.3	1583.9	938.5	795.4	671.6	561.7	486.7	450.0	436.1	429.1
32.5°	5065.5	3068.3	1402.4	877.4	718.7	573.9	471.0	413.4	390.7	373.3	368.1
35°	5135.3	2872.9	1229.8	812.9	640.2	490.2	404.7	362.8	340.1	329.7	326.2
37.5°	5301.0	2728.1	1064.0	746.6	561.7	423.9	354.1	324.4	303.5	293.0	289.6
40°	5567.9	2654.9	924.5	675.1	484.9	373.3	321.0	293.0	270.4	254.7	251.2
42.5°	5960.4	2665.3	826.8	603.5	423.9	333.2	289.6	256.4	232.0	218.0	214.6
45°	6436.6	2742.1	758.8	533.8	373.3	301.8	254.7	219.8	197.1	184.9	181.4
47.5°	6952.9	2865.9	703.0	471.0	333.2	272.1	219.8	183.2	164.0	153.5	151.8
50°	7497.1	2986.3	645.4	409.9	298.3	242.5	184.9	151.8	136.1	127.3	123.8
52.5°	8048.4	3125.8	593.1	354.1	268.6	207.6	153.5	123.8	111.6	104.7	101.2
55°	8641.4	3230.5	542.5	310.5	239.0	176.2	127.3	102.9	92.4	83.7	82.0
57.5°	9339.2	3392.7	490.2	268.6	204.1	146.5	104.7	82.0	73.3	64.5	62.8
60°	10281.1	3582.9	434.3	237.2	167.5	120.4	85.5	66.3	55.8	48.8	47.1
62.5°	11523.1	3793.9	364.6	207.6	136.1	97.7	68.0	52.3	40.1	31.4	31.4
65°	13098.2	4137.6	298.3	174.4	111.6	80.2	52.3	38.4	22.7	14.0	14.0
67.5°	14017.5	4196.9	240.7	143.0	90.7	68.0	43.6	26.2	7.0	1.7	0.0
69°	13722.7	3853.2	204.1	122.1	78.5	64.5	40.1	19.2	3.5	0.0	0.0
70°	13168.0	3523.6	179.7	108.1	71.5	61.1	38.4	14.0	3.5	0.0	0.0
72.5°	10881.2	2508.4	136.1	80.2	52.3	54.1	34.9	8.7	3.5	0.0	0.0
75°	7926.3	1524.5	97.7	55.8	33.1	40.1	24.4	3.5	1.7	0.0	0.0
77.5°	4409.7	718.7	61.1	31.4	20.9	24.4	12.2	0.0	0.0	0.0	0.0
80°	1432.1	195.4	27.9	17.4	12.2	14.0	5.2	0.0	0.0	0.0	0.0
82.5°	265.1	55.8	15.7	8.7	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	57.6	22.7	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)