

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: McGRAW-EDISON

Report Number: P457196

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-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: 38650 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

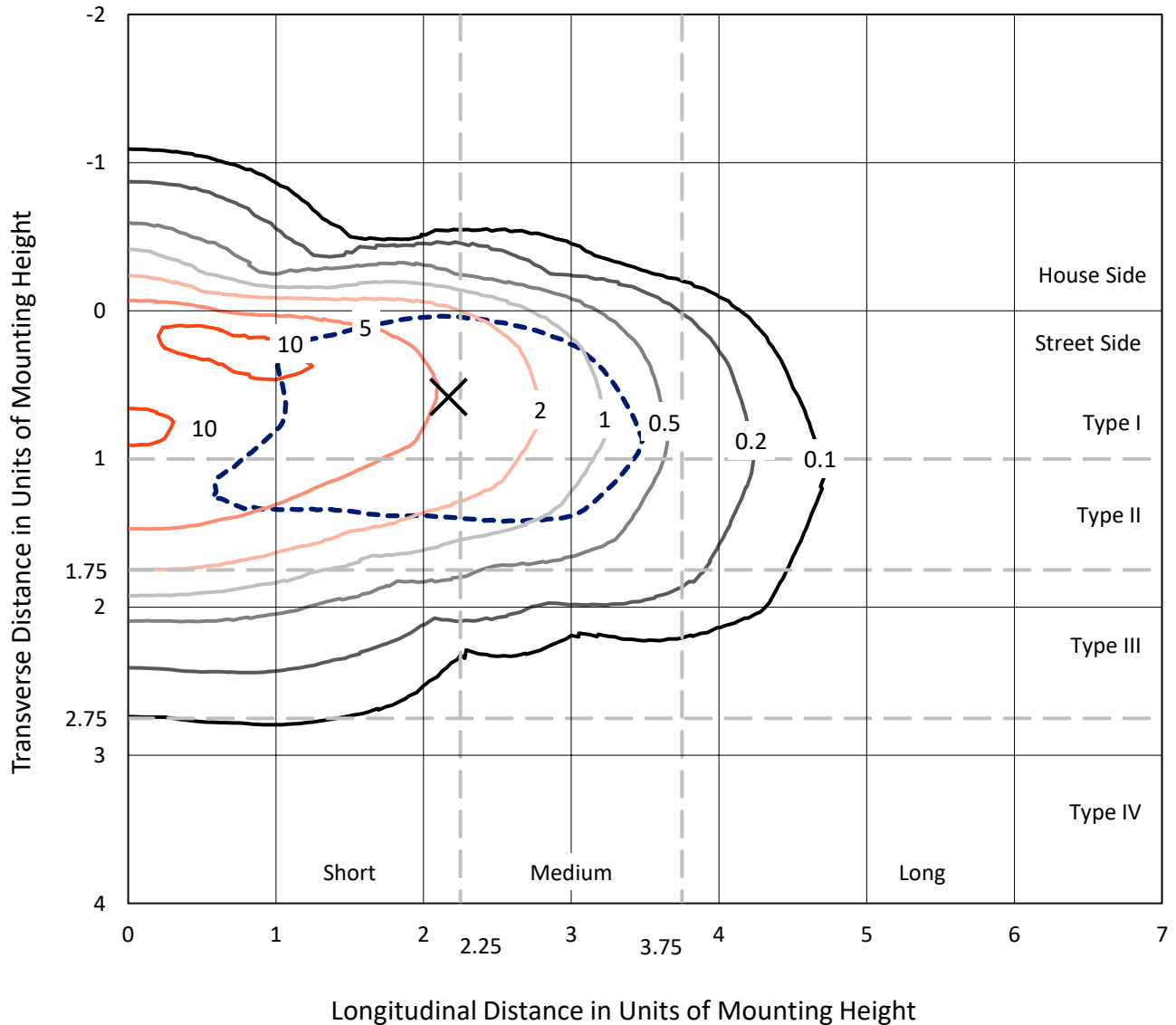
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

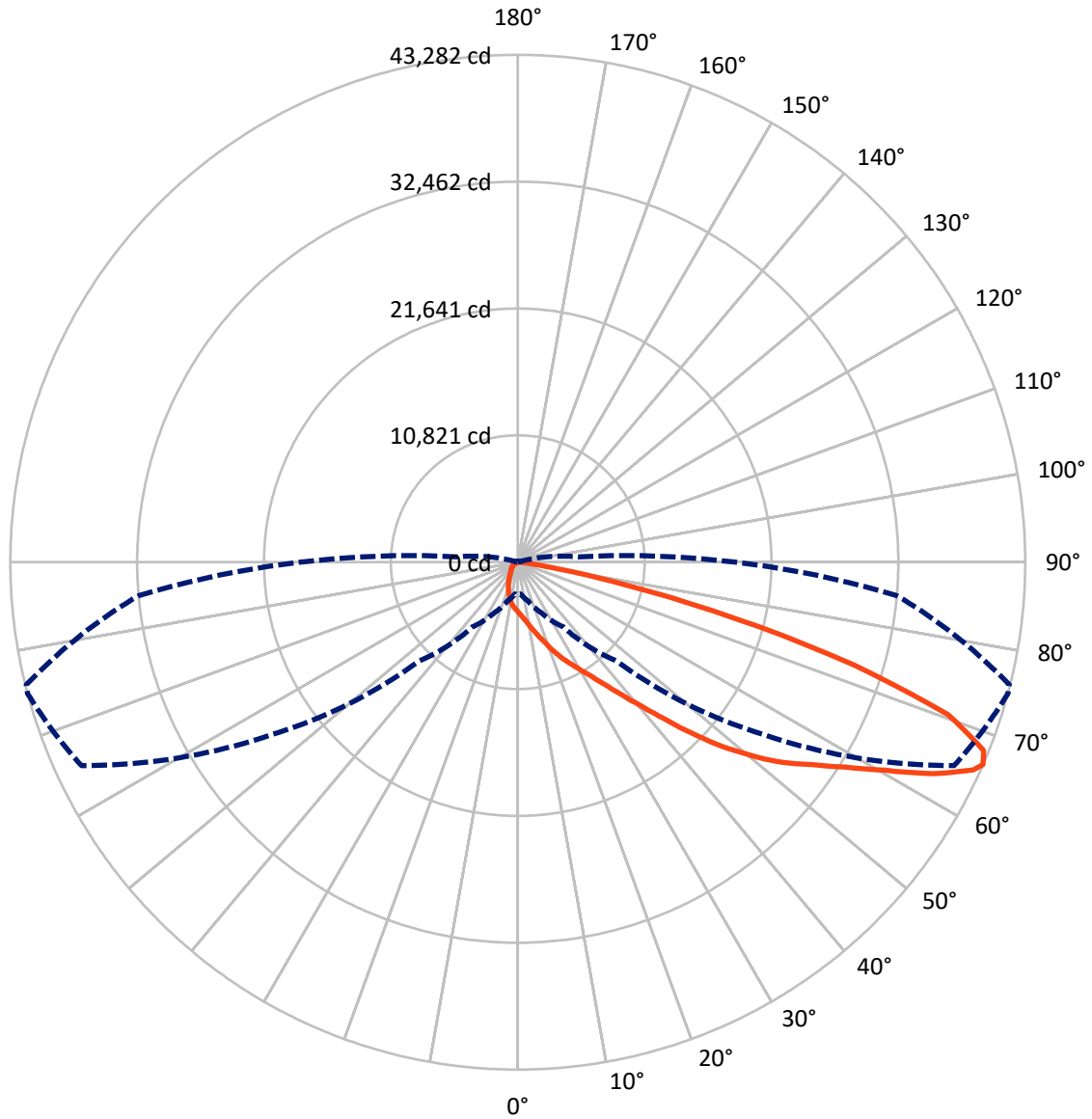
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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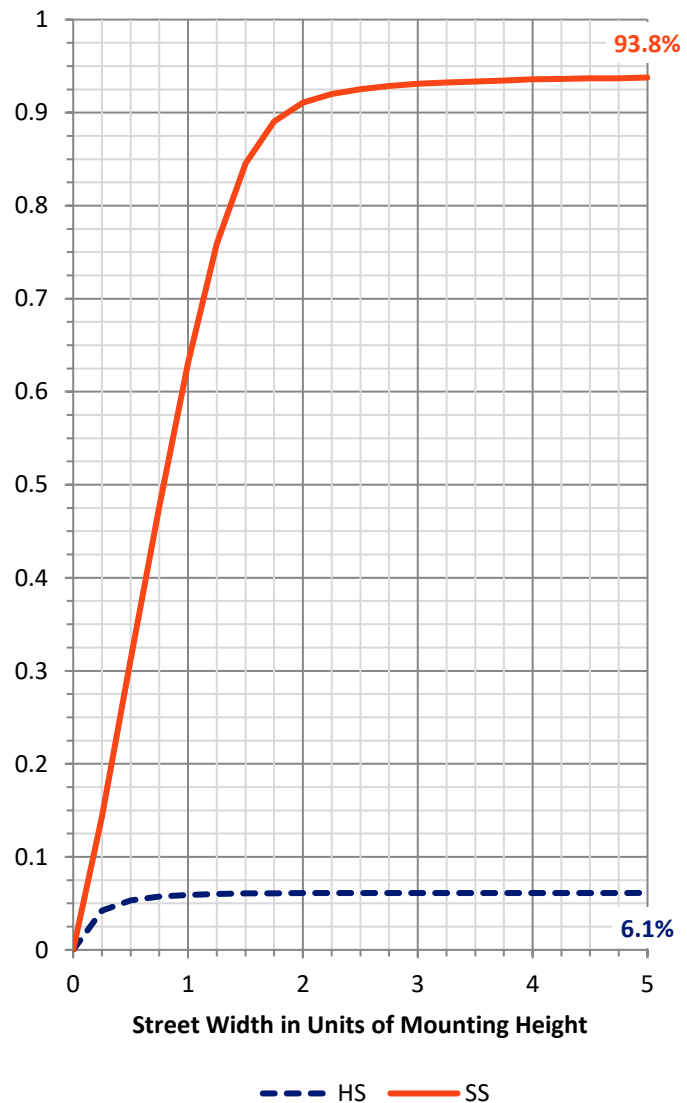
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2386.1	0.0	2386.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	36263.9	0.0	36263.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	38650.0	0.0	38650.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.7	1.1
10°-20°	1199.8	3.1
20°-30°	2071.8	5.4
30°-40°	3737.1	9.7
40°-50°	6751.2	17.5
50°-60°	10525.2	27.2
60°-70°	9998.5	25.9
70°-80°	3747.2	9.7
80°-90°	211.4	0.5
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°	38650.0	100.0
0°-180°	38650.0	100.0



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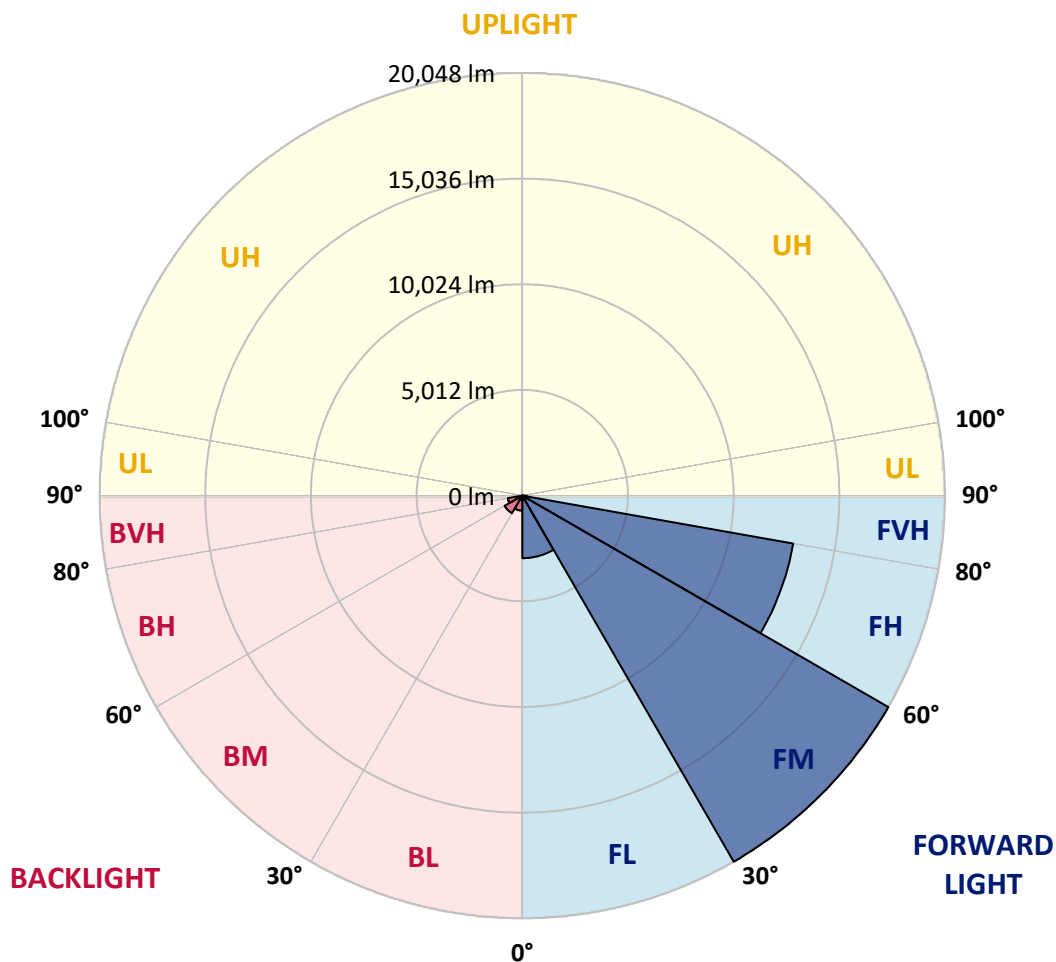
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2966.7	7.7			
FM (30°-60°)	20047.7	51.9			
FH (60°-80°)	13049.0	33.8			G5
FVH (80°-90°)	200.5	0.5			G2/225
BL (0°-30°)	712.6	1.8	B2/1000		
BM (30°-60°)	965.8	2.5	B1/1000		
BH (60°-80°)	696.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.9	0.0			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	5049.8	4986.9	5007.0	4978.4	4912.6	4815.5	4729.7	4606.9	4484.0	4464.0	4326.8
5°	5715.7	5698.6	5675.7	5592.8	5547.1	5398.5	5221.3	5009.8	4755.5	4709.7	4461.1
7.5°	6170.1	6161.5	6173.0	6130.1	6090.1	5955.8	5767.1	5478.5	5084.1	5058.4	4644.0
10°	6318.7	6341.6	6384.4	6453.0	6515.9	6473.0	6330.1	5970.0	5509.9	5435.6	4852.6
12.5°	6233.0	6258.7	6361.6	6544.5	6747.4	6864.6	6807.4	6544.5	5961.5	5901.5	5087.0
15°	6012.9	6044.4	6190.1	6473.0	6836.0	7167.5	7310.4	7121.8	6487.3	6390.2	5369.9
17.5°	5687.1	5732.8	5941.5	6315.8	6813.1	7384.7	7787.6	7724.8	7047.5	6956.0	5678.5
20°	5441.3	5475.6	5652.8	6081.5	6715.9	7504.7	8242.0	8419.2	7739.1	7581.9	6041.5
22.5°	5604.2	5615.7	5675.7	5932.9	6541.6	7536.1	8642.1	9142.3	8473.5	8333.5	6418.7
25°	6401.6	6287.3	6227.3	6170.1	6504.5	7507.6	9005.1	9896.7	9205.1	9056.5	6793.1
27.5°	7659.0	7607.6	7304.7	6898.8	6821.7	7544.7	9245.1	10611.2	9893.9	9733.8	7158.9
30°	9027.9	8939.4	8753.6	8159.2	7561.9	7807.6	9419.5	11305.7	10708.4	10496.9	7493.3
32.5°	10285.4	10342.6	10065.3	9453.8	8762.2	8367.8	9645.2	12063.0	11642.9	11380.0	7881.9
35°	11751.5	11865.8	11440.0	10854.1	10045.3	9379.5	10085.4	12917.5	12828.9	12497.4	8482.1
37.5°	13240.4	13309.0	13048.9	12225.9	11497.1	10665.5	10914.1	13972.0	14289.2	14006.3	9199.4
40°	14492.2	14586.5	14395.0	13663.4	12886.0	12154.4	12117.3	15120.9	16026.8	15735.3	10268.3
42.5°	15449.5	15521.0	15526.7	15009.4	14309.3	13977.7	13651.9	16587.0	18204.5	17867.3	11508.6
45°	16658.4	16761.3	16701.3	16349.8	15826.8	15766.8	15598.1	18358.8	20810.9	20385.0	13117.5
47.5°	18527.4	18596.0	18447.4	18033.0	17501.5	17595.8	17495.8	20345.0	23468.7	23102.9	14783.7
50°	19824.9	19939.2	20150.7	20316.5	19930.6	19582.0	19284.8	22199.8	25992.1	25663.5	16486.9
52.5°	19810.6	19999.2	20668.0	21502.5	22345.5	22239.8	21385.3	24248.9	28401.3	27995.5	18087.3
55°	18476.0	18841.8	19824.9	21305.3	23640.1	24803.3	24414.6	26620.9	30481.8	30207.5	19942.1
57.5°	15721.0	15943.9	17310.0	19379.1	22917.1	26009.3	27924.0	29835.9	32976.7	32848.1	22822.8
60°	10574.0	10674.1	12431.6	14989.4	19510.5	24806.1	30496.1	33725.5	36048.9	35986.0	26186.5
62.5°	6058.6	6101.5	7376.1	9533.8	13883.4	21022.3	30713.3	38523.8	39732.7	39767.0	30078.9
65°	3260.8	3283.7	4312.5	5595.7	8447.8	14983.7	27618.3	41153.0	42710.6	42776.3	32490.9
66°	2815.0	2706.4	3432.3	4769.8	6721.7	11925.8	25660.6	41058.7	43282.1	43210.7	32405.2
67.5°	2140.5	2237.7	2740.7	3666.6	4981.2	8479.2	21185.2	39232.6	42847.7	42624.8	31087.7
70°	1531.8	1571.8	1951.9	2614.9	3392.3	4652.6	13537.6	32585.2	38943.9	38643.8	27083.8
72.5°	988.8	1031.7	1383.2	1891.9	2452.0	2540.6	7579.0	23543.0	30024.6	29981.7	20396.5
75°	705.9	745.9	914.5	1354.6	1843.3	1571.8	3649.5	15866.8	19087.6	18959.0	12617.4
77.5°	511.6	531.6	611.6	885.9	1317.5	1126.0	1691.8	8473.5	9502.3	9951.0	5575.7
80°	294.4	311.5	425.8	540.1	891.6	768.8	808.8	3400.8	3506.6	3338.0	1743.3
82.5°	145.8	165.8	254.3	368.7	557.3	517.3	371.5	1023.1	1080.3	1051.7	440.1
85°	34.3	42.9	142.9	242.9	271.5	231.5	180.0	300.1	371.5	362.9	168.6
87.5°	2.9	5.7	51.4	42.9	45.7	77.2	62.9	77.2	120.0	111.5	60.0
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°	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8	4226.8
2.5°	4263.9	4209.6	4052.4	3898.1	3769.5	3635.2	3512.3	3440.9	3412.3	3380.8	3395.1
5°	4323.9	4192.5	3875.2	3600.9	3332.3	3103.6	2920.7	2803.6	2746.4	2737.8	2723.5
7.5°	4403.9	4178.2	3686.6	3257.9	2906.4	2652.1	2443.5	2274.8	2223.4	2177.7	2140.5
10°	4501.1	4152.5	3452.3	2897.9	2523.5	2203.4	1929.0	1729.0	1626.1	1597.5	1617.5
12.5°	4604.0	4103.9	3206.5	2566.3	2134.8	1726.1	1471.8	1371.8	1343.2	1331.8	1334.6
15°	4706.9	4043.9	2949.3	2246.3	1700.4	1377.5	1260.3	1234.6	1223.2	1217.4	1211.7
17.5°	4801.2	3946.7	2660.7	1934.8	1377.5	1177.4	1134.6	1111.7	1088.8	1080.3	1066.0
20°	4912.6	3835.2	2400.6	1586.1	1166.0	1066.0	1014.5	971.7	937.4	914.5	911.7
22.5°	5018.4	3692.3	2129.1	1314.6	1063.1	957.4	874.5	828.8	788.8	760.2	768.8
25°	5075.5	3518.0	1886.2	1146.0	968.8	848.8	757.3	700.2	657.3	643.0	640.2
27.5°	5075.5	3303.7	1649.0	1048.8	883.1	751.6	657.3	603.0	574.4	554.4	557.3
30°	5035.5	3066.5	1428.9	974.5	808.8	665.9	577.3	528.7	505.8	491.6	488.7
32.5°	5004.1	2840.7	1240.3	903.1	731.6	591.6	514.4	477.3	454.4	440.1	440.1
35°	5052.7	2646.4	1094.6	831.6	660.2	534.4	465.8	431.5	408.7	397.2	394.4
37.5°	5181.3	2469.2	983.1	754.5	594.4	485.8	431.5	391.5	368.7	354.4	348.7
40°	5498.5	2369.2	900.2	683.0	531.6	445.8	391.5	354.4	325.8	311.5	308.6
42.5°	6007.2	2372.0	820.2	617.3	483.0	411.5	357.2	314.4	282.9	268.6	265.8
45°	6773.1	2480.6	757.3	554.4	440.1	374.4	320.1	274.4	245.8	231.5	231.5
47.5°	7690.5	2692.1	703.0	500.1	400.1	340.1	282.9	237.2	208.6	197.2	197.2
50°	8685.0	2966.4	648.7	443.0	365.8	302.9	242.9	205.8	182.9	174.3	174.3
52.5°	9699.5	3298.0	594.4	397.2	328.7	262.9	208.6	182.9	162.9	157.2	154.3
55°	11031.3	3720.9	537.3	348.7	288.6	225.8	185.8	160.0	137.2	128.6	125.7
57.5°	13080.4	4358.2	474.4	305.8	237.2	188.6	160.0	134.3	108.6	94.3	91.5
60°	15552.4	5135.6	408.7	268.6	191.5	154.3	128.6	102.9	80.0	62.9	60.0
62.5°	17867.3	5630.0	345.8	225.8	151.5	117.2	91.5	77.2	57.2	40.0	37.2
65°	18890.4	5464.2	285.8	182.9	120.0	82.9	60.0	54.3	34.3	17.1	14.3
66°	18550.3	5218.4	262.9	165.8	108.6	71.4	51.4	45.7	25.7	8.6	8.6
67.5°	17547.2	4638.3	228.6	142.9	94.3	57.2	40.0	34.3	14.3	2.9	0.0
70°	15035.1	3752.4	180.0	105.7	68.6	40.0	22.9	17.1	8.6	0.0	0.0
72.5°	11548.6	2795.0	142.9	80.0	48.6	22.9	11.4	5.7	8.6	0.0	0.0
75°	7076.0	1597.5	111.5	60.0	31.4	14.3	8.6	0.0	8.6	2.9	0.0
77.5°	3140.8	717.3	74.3	40.0	22.9	11.4	5.7	0.0	5.7	2.9	0.0
80°	794.5	234.3	42.9	28.6	17.1	8.6	2.9	0.0	5.7	5.7	2.9
82.5°	217.2	85.7	31.4	22.9	14.3	8.6	2.9	0.0	5.7	5.7	5.7
85°	85.7	40.0	28.6	22.9	17.1	8.6	2.9	0.0	5.7	5.7	5.7
87.5°	40.0	28.6	28.6	25.7	20.0	8.6	2.9	0.0	5.7	2.9	5.7
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)