

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: P457167

Luminaire Tested: **GALN-SA8C-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457167
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-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 35493 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

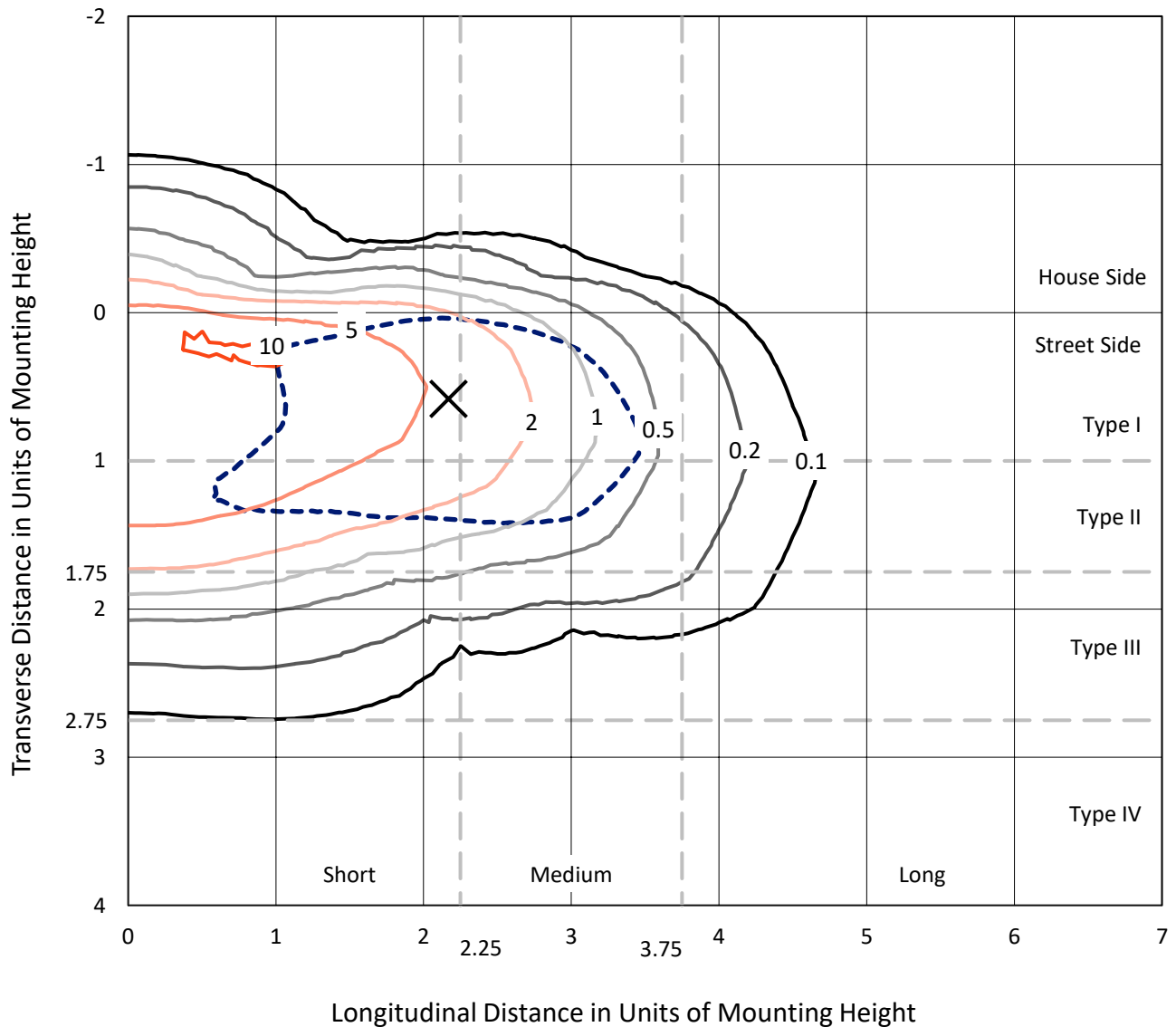
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

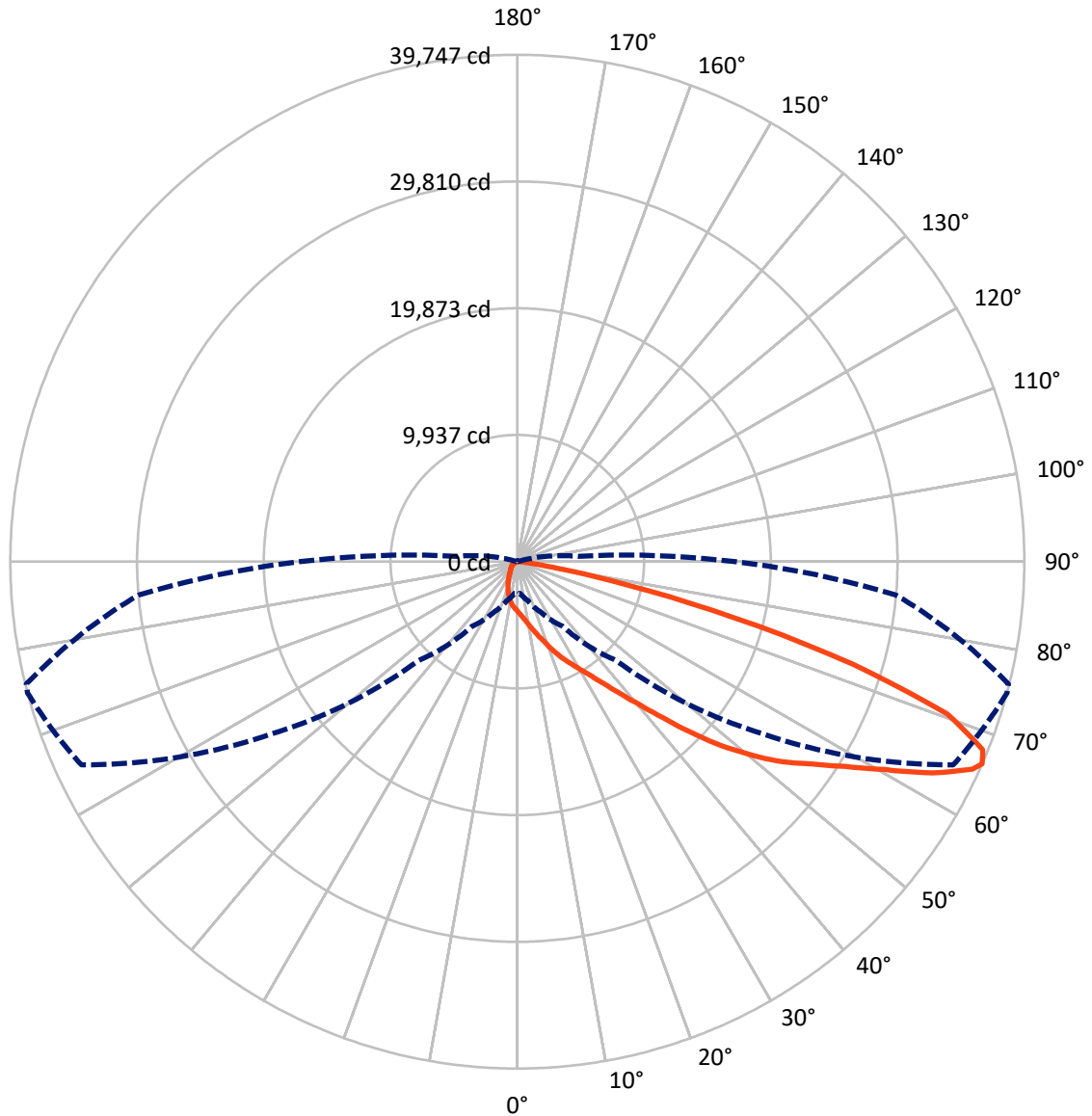
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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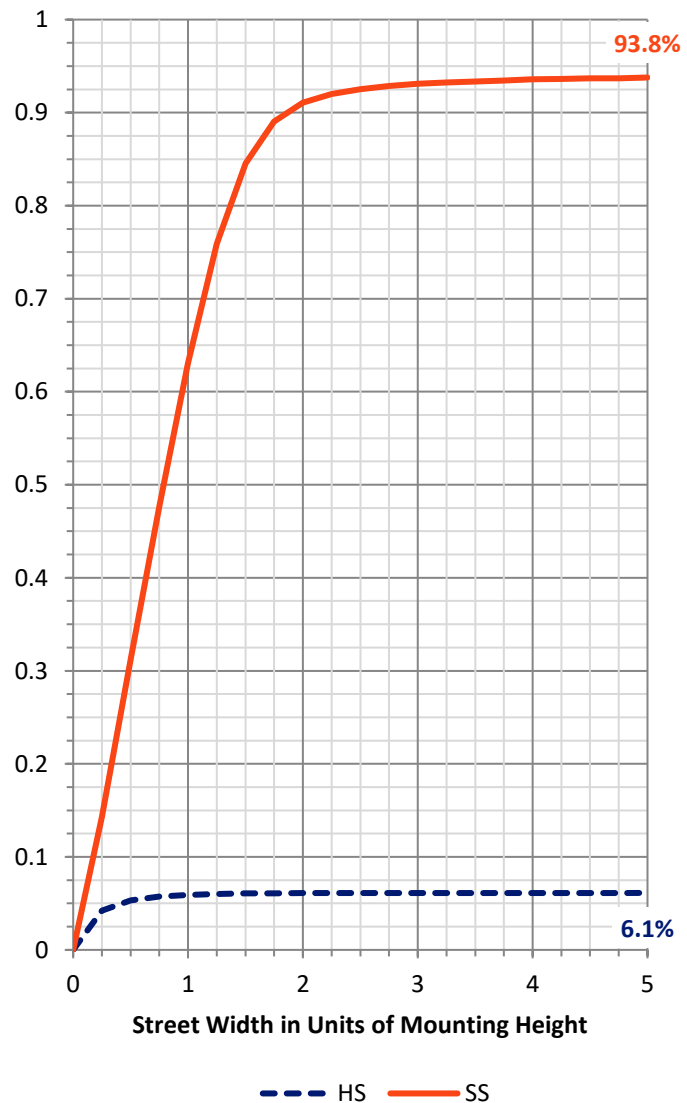
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2191.2	0.0	2191.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	33301.8	0.0	33301.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	35493.0	0.0	35493.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	1.1
10°-20°	1101.8	3.1
20°-30°	1902.6	5.4
30°-40°	3431.9	9.7
40°-50°	6199.8	17.5
50°-60°	9665.5	27.2
60°-70°	9181.8	25.9
70°-80°	3441.1	9.7
80°-90°	194.1	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°	35493.0	100.0
0°-180°	35493.0	100.0



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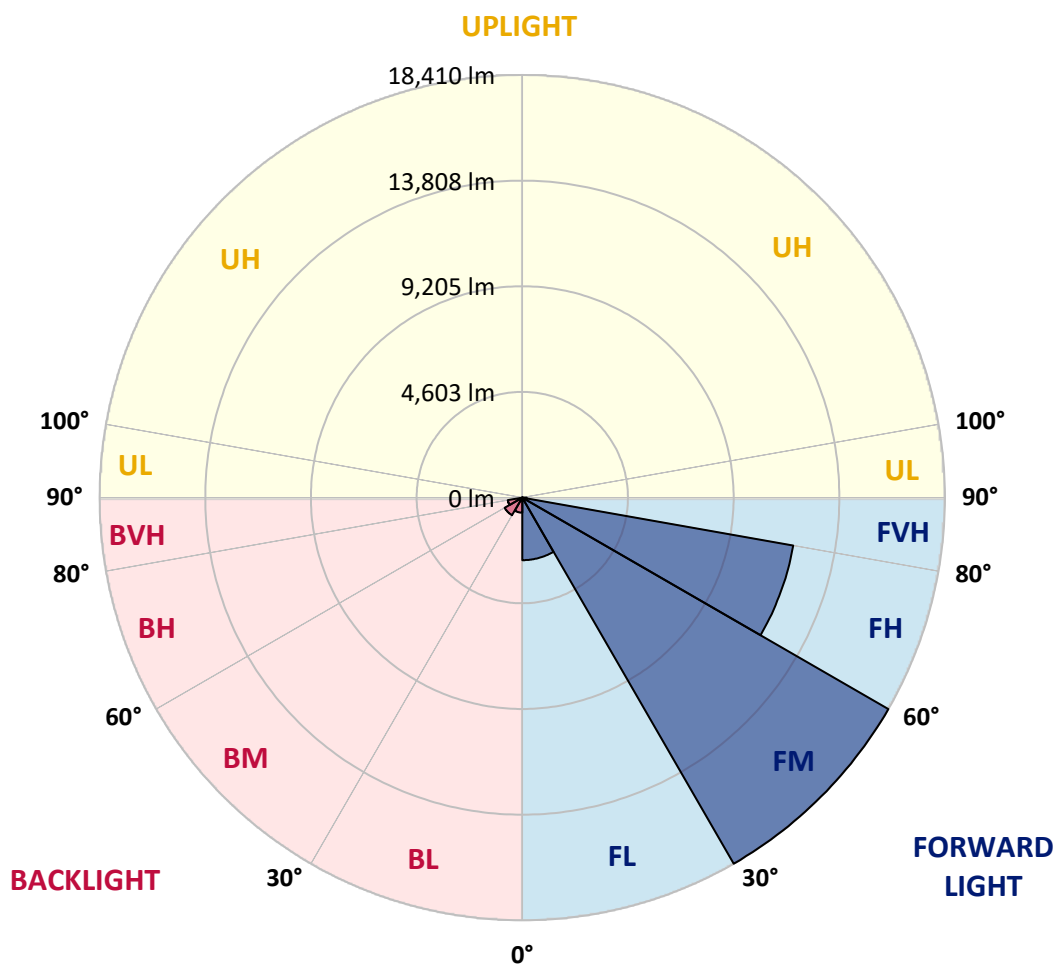
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2724.4	7.7			
FM (30°-60°)	18410.2	51.9			
FH (60°-80°)	11983.1	33.8			G4/12000
FVH (80°-90°)	184.1	0.5			G2/225
BL (0°-30°)	654.4	1.8	B2/1000		
BM (30°-60°)	886.9	2.5	B1/1000		
BH (60°-80°)	639.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	4637.3	4579.6	4598.0	4571.7	4511.4	4422.1	4343.4	4230.6	4117.7	4099.3	3973.4
5°	5248.8	5233.1	5212.1	5136.0	5094.0	4957.5	4794.8	4600.6	4367.0	4325.0	4096.7
7.5°	5666.1	5658.2	5668.7	5629.4	5592.6	5469.3	5296.1	5031.0	4668.8	4645.2	4264.7
10°	5802.6	5823.6	5862.9	5925.9	5983.7	5944.3	5813.1	5482.4	5059.9	4991.6	4456.3
12.5°	5723.9	5747.5	5841.9	6009.9	6196.2	6303.8	6251.4	6009.9	5474.5	5419.4	4671.5
15°	5521.8	5550.6	5684.5	5944.3	6277.6	6582.0	6713.3	6540.0	5957.4	5868.2	4931.3
17.5°	5222.6	5264.6	5456.2	5800.0	6256.6	6781.5	7151.5	7093.8	6471.8	6387.8	5214.7
20°	4996.9	5028.4	5191.1	5584.8	6167.4	6891.7	7568.8	7731.5	7106.9	6962.6	5548.0
22.5°	5146.5	5157.0	5212.1	5448.3	6007.3	6920.6	7936.2	8395.5	7781.4	7652.8	5894.4
25°	5878.7	5773.7	5718.6	5666.1	5973.2	6894.3	8269.5	9088.4	8453.2	8316.8	6238.2
27.5°	7033.4	6986.2	6708.0	6335.3	6264.5	6928.5	8490.0	9744.5	9085.7	8938.8	6574.2
30°	8290.5	8209.2	8038.6	7492.7	6944.2	7169.9	8650.1	10382.2	9833.7	9639.5	6881.2
32.5°	9445.3	9497.8	9243.2	8681.6	8046.5	7684.3	8857.4	11077.7	10691.9	10450.4	7238.1
35°	10791.6	10896.6	10505.5	9967.5	9224.8	8613.3	9261.6	11862.4	11781.0	11476.6	7789.3
37.5°	12158.9	12221.9	11983.1	11227.2	10558.0	9794.3	10022.6	12830.8	13122.1	12862.3	8448.0
40°	13308.4	13395.0	13219.2	12547.3	11833.5	11161.6	11127.5	13885.8	14717.7	14450.0	9429.5
42.5°	14187.6	14253.2	14258.4	13783.4	13140.4	12836.0	12536.8	15232.1	16717.5	16407.8	10568.5
45°	15297.7	15392.2	15337.1	15014.3	14534.0	14478.9	14324.1	16859.2	19111.0	18720.0	12046.1
47.5°	17014.1	17077.1	16940.6	16560.1	16071.9	16158.5	16066.7	18683.2	21551.7	21215.8	13576.1
50°	18205.6	18310.5	18504.8	18657.0	18302.7	17982.5	17709.6	20386.5	23869.1	23567.3	15140.3
52.5°	18192.4	18365.7	18979.8	19746.1	20520.3	20423.2	19638.5	22268.2	26081.4	25708.8	16609.9
55°	16966.8	17302.8	18205.6	19565.0	21709.2	22777.3	22420.4	24446.4	27992.0	27740.1	18313.2
57.5°	14436.9	14641.6	15896.1	17796.2	21045.2	23884.8	25643.2	27398.9	30283.1	30165.0	20958.6
60°	9710.3	9802.2	11416.2	13765.1	17916.9	22779.9	28005.1	30970.7	33104.4	33046.6	24047.5
62.5°	5563.8	5603.1	6773.6	8755.0	12749.4	19305.2	28204.6	35377.1	36487.2	36518.7	27622.0
65°	2994.5	3015.5	3960.2	5138.6	7757.8	13759.8	25362.4	37791.6	39221.9	39282.2	29837.0
66°	2585.0	2485.3	3151.9	4380.1	6172.6	10951.7	23564.6	37705.0	39746.8	39681.2	29758.2
67.5°	1965.7	2054.9	2516.8	3367.1	4574.4	7786.6	19454.8	36028.0	39347.9	39143.2	28548.4
70°	1406.7	1443.4	1792.5	2401.3	3115.2	4272.5	12431.9	29923.6	35762.9	35487.3	24871.6
72.5°	908.0	947.4	1270.2	1737.4	2251.7	2333.1	6959.9	21619.9	27572.1	27532.7	18730.5
75°	648.2	685.0	839.8	1244.0	1692.7	1443.4	3351.4	14570.8	17528.5	17410.4	11586.8
77.5°	469.8	488.1	561.6	813.6	1209.9	1034.0	1553.7	7781.4	8726.2	9138.2	5120.2
80°	270.3	286.1	391.0	496.0	818.8	706.0	742.7	3123.1	3220.2	3065.3	1600.9
82.5°	133.8	152.2	233.6	338.5	511.8	475.0	341.2	939.5	992.0	965.8	404.2
85°	31.5	39.4	131.2	223.1	249.3	212.6	165.3	275.6	341.2	333.3	154.8
87.5°	2.6	5.2	47.2	39.4	42.0	70.9	57.7	70.9	110.2	102.4	55.1
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°	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5	3881.5
2.5°	3915.6	3865.8	3721.4	3579.7	3461.6	3338.3	3225.4	3159.8	3133.6	3104.7	3117.8
5°	3970.7	3850.0	3558.7	3306.8	3060.1	2850.1	2682.2	2574.6	2522.1	2514.2	2501.1
7.5°	4044.2	3836.9	3385.5	2991.8	2669.0	2435.5	2243.9	2089.0	2041.8	1999.8	1965.7
10°	4133.5	3813.3	3170.3	2661.2	2317.4	2023.4	1771.5	1587.8	1493.3	1467.0	1485.4
12.5°	4227.9	3768.7	2944.6	2356.7	1960.4	1585.1	1351.6	1259.7	1233.5	1223.0	1225.6
15°	4322.4	3713.5	2708.4	2062.8	1561.5	1265.0	1157.4	1133.7	1123.2	1118.0	1112.8
17.5°	4409.0	3624.3	2443.3	1776.7	1265.0	1081.3	1041.9	1020.9	999.9	992.0	978.9
20°	4511.4	3522.0	2204.5	1456.6	1070.8	978.9	931.7	892.3	860.8	839.8	837.2
22.5°	4608.5	3390.7	1955.2	1207.2	976.3	879.2	803.1	761.1	724.3	698.1	706.0
25°	4661.0	3230.7	1732.1	1052.4	889.7	779.5	695.5	643.0	603.6	590.5	587.9
27.5°	4661.0	3033.8	1514.3	963.2	810.9	690.2	603.6	553.8	527.5	509.1	511.8
30°	4624.2	2816.0	1312.2	894.9	742.7	611.5	530.1	485.5	464.5	451.4	448.8
32.5°	4595.4	2608.7	1139.0	829.3	671.9	543.3	472.4	438.3	417.3	404.2	404.2
35°	4640.0	2430.2	1005.2	763.7	606.2	490.8	427.8	396.3	375.3	364.8	362.2
37.5°	4758.1	2267.5	902.8	692.8	545.9	446.2	396.3	359.5	338.5	325.4	320.2
40°	5049.4	2175.6	826.7	627.2	488.1	409.4	359.5	325.4	299.2	286.1	283.4
42.5°	5516.5	2178.3	753.2	566.9	443.5	377.9	328.1	288.7	259.8	246.7	244.1
45°	6219.9	2278.0	695.5	509.1	404.2	343.8	293.9	251.9	225.7	212.6	212.6
47.5°	7062.3	2472.2	645.6	459.3	367.4	312.3	259.8	217.8	191.6	181.1	181.1
50°	7975.6	2724.1	595.7	406.8	335.9	278.2	223.1	189.0	168.0	160.1	160.1
52.5°	8907.3	3028.6	545.9	364.8	301.8	241.4	191.6	168.0	149.6	144.3	141.7
55°	10130.2	3417.0	493.4	320.2	265.1	207.3	170.6	147.0	126.0	118.1	115.5
57.5°	12011.9	4002.2	435.7	280.8	217.8	173.2	147.0	123.3	99.7	86.6	84.0
60°	14282.1	4716.1	375.3	246.7	175.8	141.7	118.1	94.5	73.5	57.7	55.1
62.5°	16407.8	5170.1	317.6	207.3	139.1	107.6	84.0	70.9	52.5	36.7	34.1
65°	17347.4	5017.9	262.4	168.0	110.2	76.1	55.1	49.9	31.5	15.7	13.1
66°	17035.1	4792.2	241.4	152.2	99.7	65.6	47.2	42.0	23.6	7.9	7.9
67.5°	16113.9	4259.4	210.0	131.2	86.6	52.5	36.7	31.5	13.1	2.6	0.0
70°	13807.0	3445.9	165.3	97.1	63.0	36.7	21.0	15.7	7.9	0.0	0.0
72.5°	10605.3	2566.7	131.2	73.5	44.6	21.0	10.5	5.2	7.9	0.0	0.0
75°	6498.1	1467.0	102.4	55.1	28.9	13.1	7.9	0.0	7.9	2.6	0.0
77.5°	2884.2	658.7	68.2	36.7	21.0	10.5	5.2	0.0	5.2	2.6	0.0
80°	729.6	215.2	39.4	26.2	15.7	7.9	2.6	0.0	5.2	5.2	2.6
82.5°	199.5	78.7	28.9	21.0	13.1	7.9	2.6	0.0	5.2	5.2	5.2
85°	78.7	36.7	26.2	21.0	15.7	7.9	2.6	0.0	5.2	5.2	5.2
87.5°	36.7	26.2	26.2	23.6	18.4	7.9	2.6	0.0	5.2	2.6	5.2
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)