

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: P459518

Luminaire Tested: **GALN-SA9C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47535 lumens
Efficiency: N/A
Efficacy: 98.8 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

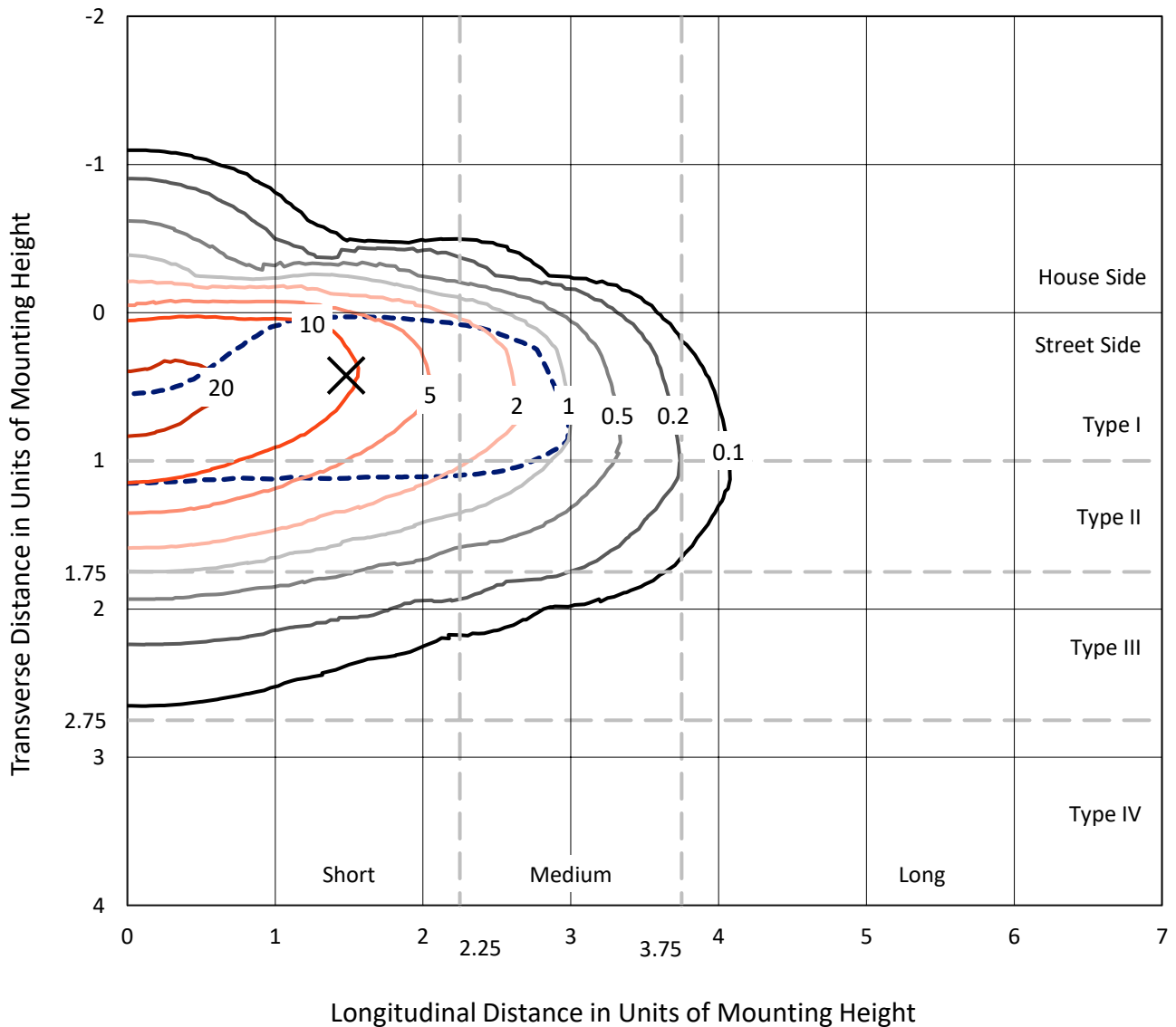
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

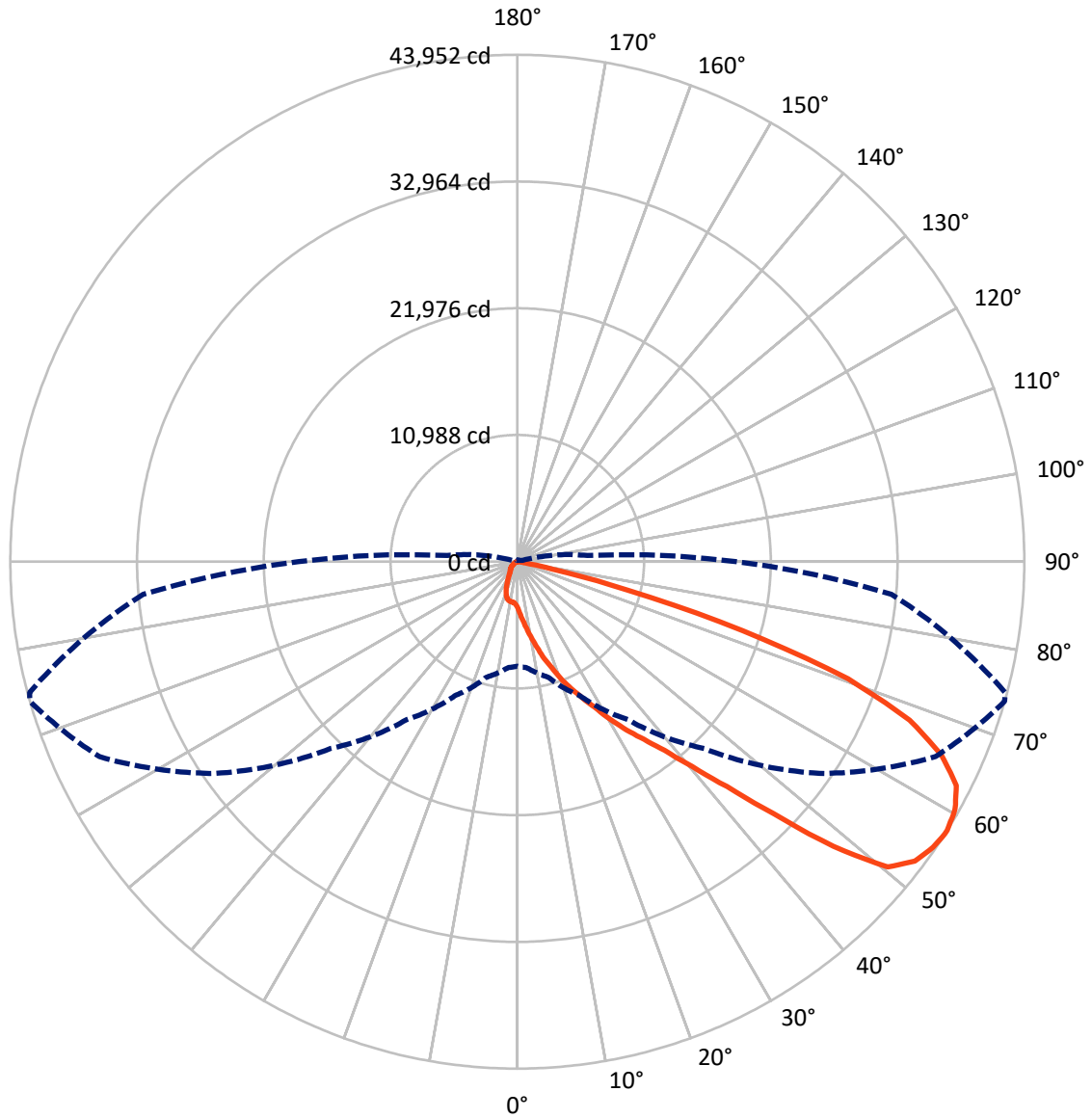
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2741.7	0.0	2741.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	44793.3	0.0	44793.3
	% Fixture	94.2	0.0	94.2
Total	Lumens	47535.0	0.0	47535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.5	1.0
10°-20°	1894.0	4.0
20°-30°	4052.7	8.5
30°-40°	7448.8	15.7
40°-50°	11419.1	24.0
50°-60°	12079.9	25.4
60°-70°	7888.5	16.6
70°-80°	2155.4	4.5
80°-90°	116.0	0.2
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°	47535.0	100.0
0°-180°	47535.0	100.0

Coefficient of Utilization



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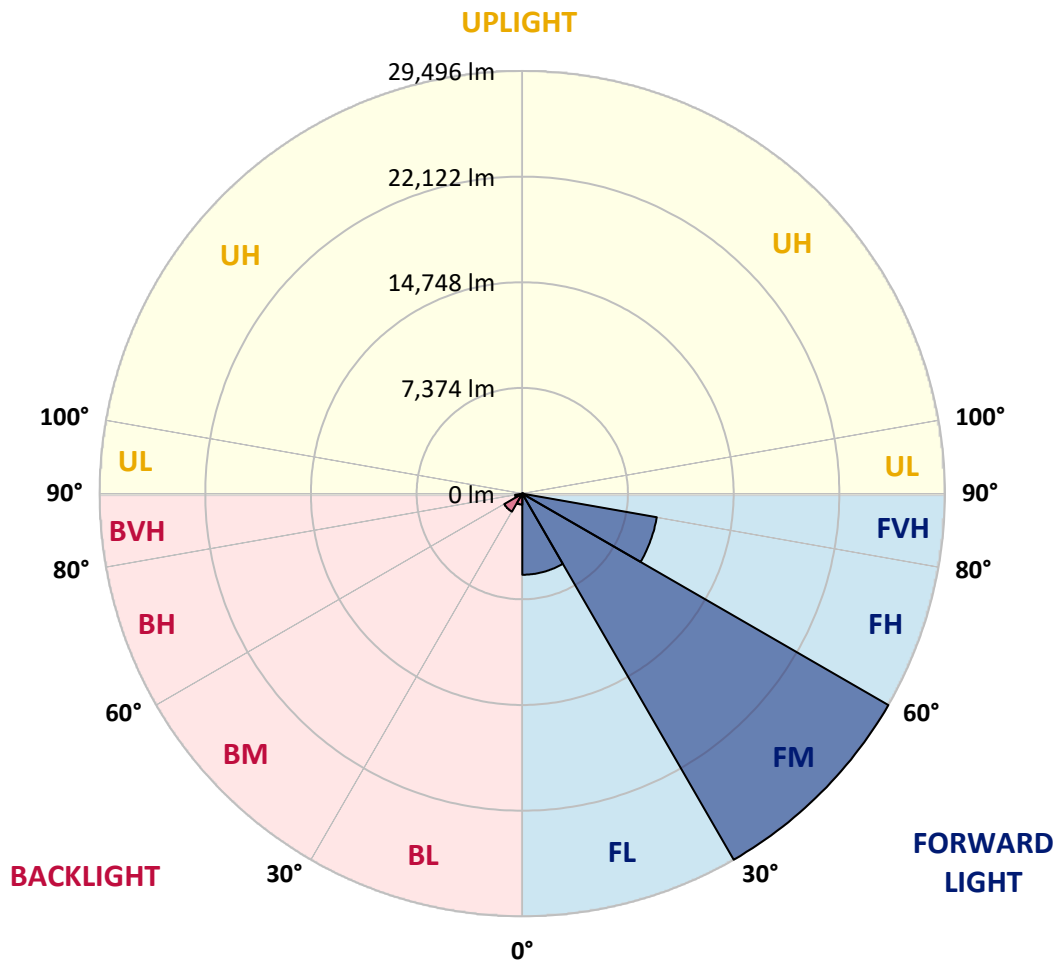
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5661.4	11.9			
FM (30°-60°)	29496.3	62.1			
FH (60°-80°)	9529.2	20.0			G4/12000
FVH (80°-90°)	106.5	0.2			G2/225
BL (0°-30°)	765.8	1.6	B2/1000		
BM (30°-60°)	1451.5	3.1	B2/2500		
BH (60°-80°)	514.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	5825.4	5772.9	5667.9	5631.8	5477.6	5238.0	5027.9	4745.7	4522.5	4499.5	4230.4
5°	7801.2	7683.0	7633.8	7397.5	7026.6	6678.7	6081.4	5628.5	5106.7	5067.3	4525.8
7.5°	9704.7	9540.6	9491.4	9268.2	8835.0	8286.9	7512.4	6688.6	5861.5	5786.1	4922.9
10°	11083.1	11106.1	11017.5	10869.8	10518.6	9960.7	9005.6	7879.9	6701.7	6606.5	5369.3
12.5°	12071.0	12067.7	12084.1	12080.8	11893.8	11470.4	10466.1	9169.7	7627.2	7440.2	5881.2
15°	12714.2	12724.1	12773.3	12944.0	12963.7	12701.1	11864.2	10403.8	8700.4	8467.4	6435.9
17.5°	13364.1	13433.0	13511.8	13672.6	13817.0	13711.9	13121.2	11690.3	9671.9	9497.9	7029.9
20°	14437.3	14532.4	14486.5	14584.9	14660.4	14670.3	14214.1	12878.3	10850.1	10558.0	7709.3
22.5°	16153.7	16150.4	16032.3	15855.1	15707.4	15700.8	15287.3	14099.2	11920.0	11637.8	8391.9
25°	18323.1	18332.9	18103.2	17597.8	17230.2	16780.6	16304.7	15169.1	13065.4	12717.5	9110.7
27.5°	20810.8	20748.4	20400.5	19704.8	18976.2	18208.2	17522.3	16413.0	14279.7	13990.9	9934.4
30°	23045.8	23022.8	22615.9	21765.8	20807.5	20036.2	19041.8	17971.9	15851.8	15497.3	10856.7
32.5°	25126.5	25159.4	24594.9	23715.3	22789.8	21900.4	20850.2	19461.9	17394.3	16892.1	11860.9
35°	26751.1	26783.9	26199.7	25467.9	24516.1	23777.7	22776.7	21050.4	18917.1	18493.7	13016.2
37.5°	27617.5	27660.2	27322.2	26770.8	26176.8	25805.9	24873.8	23095.0	20768.1	20512.1	14381.5
40°	27781.6	27830.9	27683.2	27535.5	27502.7	27768.5	27496.1	25504.0	23334.6	22934.2	16416.3
42.5°	27289.3	27355.0	27420.6	27748.8	28418.3	29393.1	30341.5	28772.8	26639.5	26101.3	18904.0
45°	25996.3	25989.7	26249.0	27099.0	28598.8	30679.6	33315.0	32865.4	31142.3	30502.4	22418.9
47.5°	23784.2	23751.4	24312.6	25523.7	27860.4	30915.9	35740.3	37834.2	36889.0	36298.3	26196.5
50°	20413.7	20574.5	21457.3	23147.5	26025.8	30200.4	36488.6	41093.2	41605.2	40978.3	29248.7
52.5°	16465.5	16458.9	17843.9	20138.0	23308.3	28625.1	35966.8	41683.9	43137.8	42658.7	30751.8
55°	12185.8	12271.2	13711.9	16025.7	19780.3	25750.1	34263.5	41076.8	43722.0	43384.0	31742.9
57°	9064.7	9215.7	10370.9	12819.3	16708.4	22904.7	31995.6	39990.5	43951.8	43768.0	32566.7
57.5°	8460.8	8467.4	9593.1	11818.3	15809.1	21811.8	31345.8	39537.5	43945.2	43843.4	32701.3
60°	5208.4	5372.5	6150.4	7988.2	11572.1	17023.4	26990.7	36935.0	43603.9	43751.6	33275.6
62.5°	3117.8	3186.8	3692.2	4814.6	7459.9	12425.4	22087.5	33603.8	42714.5	43164.1	33236.2
65°	2005.3	2021.7	2251.4	2914.4	4663.6	8398.5	17020.1	29202.7	40413.8	41240.9	31936.6
67.5°	1549.1	1575.3	1667.2	1913.4	2704.3	5231.4	12038.2	24506.3	36692.1	37758.7	28785.9
70°	1375.1	1388.3	1421.1	1499.8	1788.7	2953.7	7489.4	19143.6	30426.9	30728.8	22527.2
72.5°	1122.4	1158.5	1260.3	1286.5	1417.8	1844.5	4168.1	12848.8	20443.2	20518.7	12602.7
75°	869.7	876.3	1027.2	1102.7	1194.6	1270.1	1860.9	6478.6	9819.6	9294.5	4857.3
77.5°	649.8	679.4	748.3	843.5	974.7	909.1	833.6	2441.8	3048.9	2993.1	1411.2
80°	416.8	433.2	521.8	633.4	758.1	594.0	469.3	715.5	669.5	689.2	338.0
82.5°	210.0	213.3	334.8	515.3	482.4	298.7	295.4	292.1	249.4	246.1	157.5
85°	23.0	49.2	216.6	295.4	216.6	98.5	137.8	134.6	131.3	134.6	91.9
87.5°	3.3	3.3	36.1	42.7	29.5	32.8	39.4	42.7	52.5	49.2	39.4
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°	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0	3981.0
2.5°	4099.1	3967.9	3725.0	3492.0	3318.0	3206.5	3062.1	3009.5	2934.1	2924.2	2888.1
5°	4276.4	4026.9	3603.6	3268.8	2999.7	2796.2	2619.0	2471.3	2353.2	2326.9	2340.0
7.5°	4529.1	4158.2	3567.5	3111.3	2737.1	2389.3	2107.0	1933.1	1808.3	1762.4	1769.0
10°	4814.6	4332.2	3560.9	2943.9	2372.8	1946.2	1637.7	1483.4	1411.2	1385.0	1355.4
12.5°	5152.6	4532.4	3544.5	2684.6	1972.4	1552.4	1332.5	1240.6	1171.7	1152.0	1152.0
15°	5533.4	4745.7	3465.7	2363.0	1601.6	1283.2	1135.6	1063.3	1040.4	1020.7	1020.7
17.5°	5930.5	4955.7	3301.6	1965.9	1329.2	1099.5	1007.6	964.9	932.1	909.1	909.1
20°	6383.4	5162.5	3039.1	1614.7	1122.4	981.3	909.1	859.9	833.6	813.9	807.4
22.5°	6813.3	5329.9	2704.3	1325.9	978.0	882.8	817.2	764.7	738.4	728.6	728.6
25°	7259.7	5431.6	2300.6	1096.2	892.7	800.8	728.6	685.9	663.0	656.4	653.1
27.5°	7692.9	5490.7	1946.2	958.3	813.9	725.3	656.4	623.6	600.6	594.0	597.3
30°	8218.0	5500.5	1601.6	859.9	745.0	653.1	590.7	561.2	548.1	541.5	538.2
32.5°	8749.7	5487.4	1345.6	800.8	679.4	590.7	538.2	515.3	505.4	495.6	495.6
35°	9347.0	5418.5	1145.4	741.7	617.0	538.2	492.3	472.6	459.5	449.6	446.3
37.5°	10088.7	5382.4	1030.5	676.1	561.2	489.0	446.3	426.7	416.8	403.7	400.4
40°	11257.1	5543.2	994.4	617.0	505.4	443.1	403.7	380.7	367.6	354.4	351.2
42.5°	12714.2	5825.4	935.4	557.9	456.2	400.4	361.0	334.8	311.8	295.4	288.8
45°	14601.4	6196.3	843.5	495.6	413.5	354.4	318.3	285.5	256.0	242.9	239.6
47.5°	16580.4	6554.0	761.4	446.3	367.6	315.1	275.7	239.6	213.3	203.5	200.2
50°	17794.7	6626.2	708.9	390.6	321.6	272.4	233.0	200.2	183.8	173.9	173.9
52.5°	18349.3	6511.4	636.7	341.3	279.0	239.6	200.2	173.9	164.1	157.5	154.3
55°	18736.6	6334.1	541.5	295.4	239.6	203.5	177.2	157.5	144.4	137.8	134.6
57°	18963.1	6094.6	469.3	259.3	206.8	177.2	157.5	141.1	128.0	114.9	114.9
57.5°	18972.9	6002.7	449.6	256.0	196.9	170.7	154.3	137.8	121.4	108.3	105.0
60°	18680.8	5372.5	361.0	216.6	157.5	144.4	128.0	108.3	85.3	72.2	68.9
62.5°	17742.2	4571.7	298.7	183.8	128.0	111.6	91.9	82.0	59.1	42.7	42.7
65°	16321.1	3708.6	256.0	147.7	105.0	82.0	62.4	59.1	36.1	19.7	16.4
67.5°	14266.6	2888.1	216.6	121.4	88.6	59.1	42.7	39.4	19.7	6.6	0.0
70°	10869.8	1969.2	180.5	98.5	65.6	42.7	29.5	23.0	13.1	3.3	0.0
72.5°	6265.2	1083.0	151.0	75.5	49.2	32.8	23.0	13.1	13.1	0.0	0.0
75°	2238.3	466.0	114.9	55.8	39.4	26.3	16.4	6.6	9.8	3.3	0.0
77.5°	712.2	249.4	75.5	42.7	32.8	19.7	13.1	6.6	6.6	3.3	0.0
80°	210.0	131.3	45.9	36.1	23.0	16.4	9.8	3.3	6.6	3.3	0.0
82.5°	114.9	65.6	36.1	26.3	23.0	13.1	9.8	3.3	3.3	3.3	0.0
85°	59.1	39.4	29.5	26.3	23.0	13.1	9.8	3.3	0.0	3.3	3.3
87.5°	32.8	29.5	29.5	26.3	23.0	16.4	9.8	3.3	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)