

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: P454443

Luminaire Tested: **GALN-SA5C-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454443
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-SA5C-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 28188 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

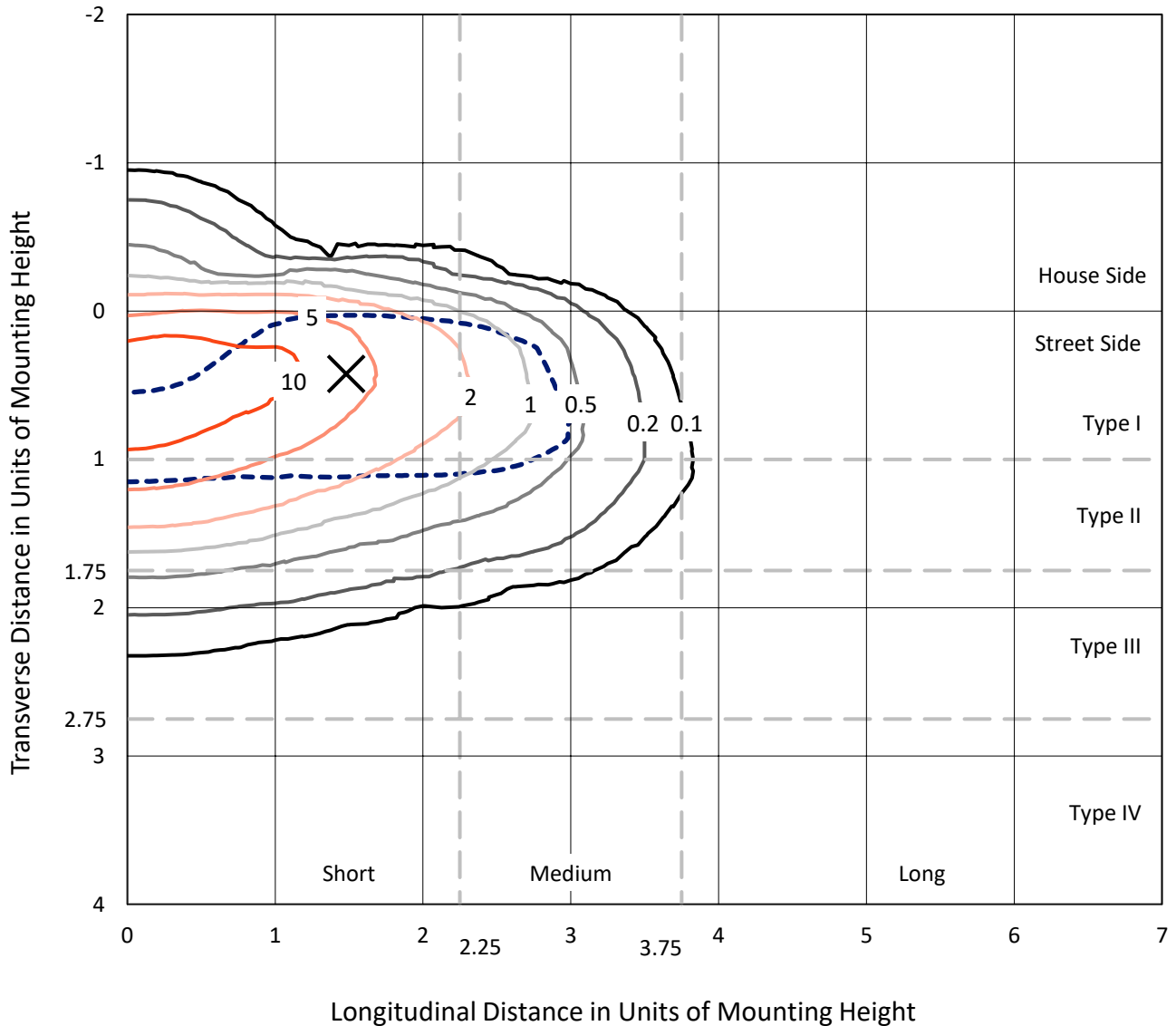
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

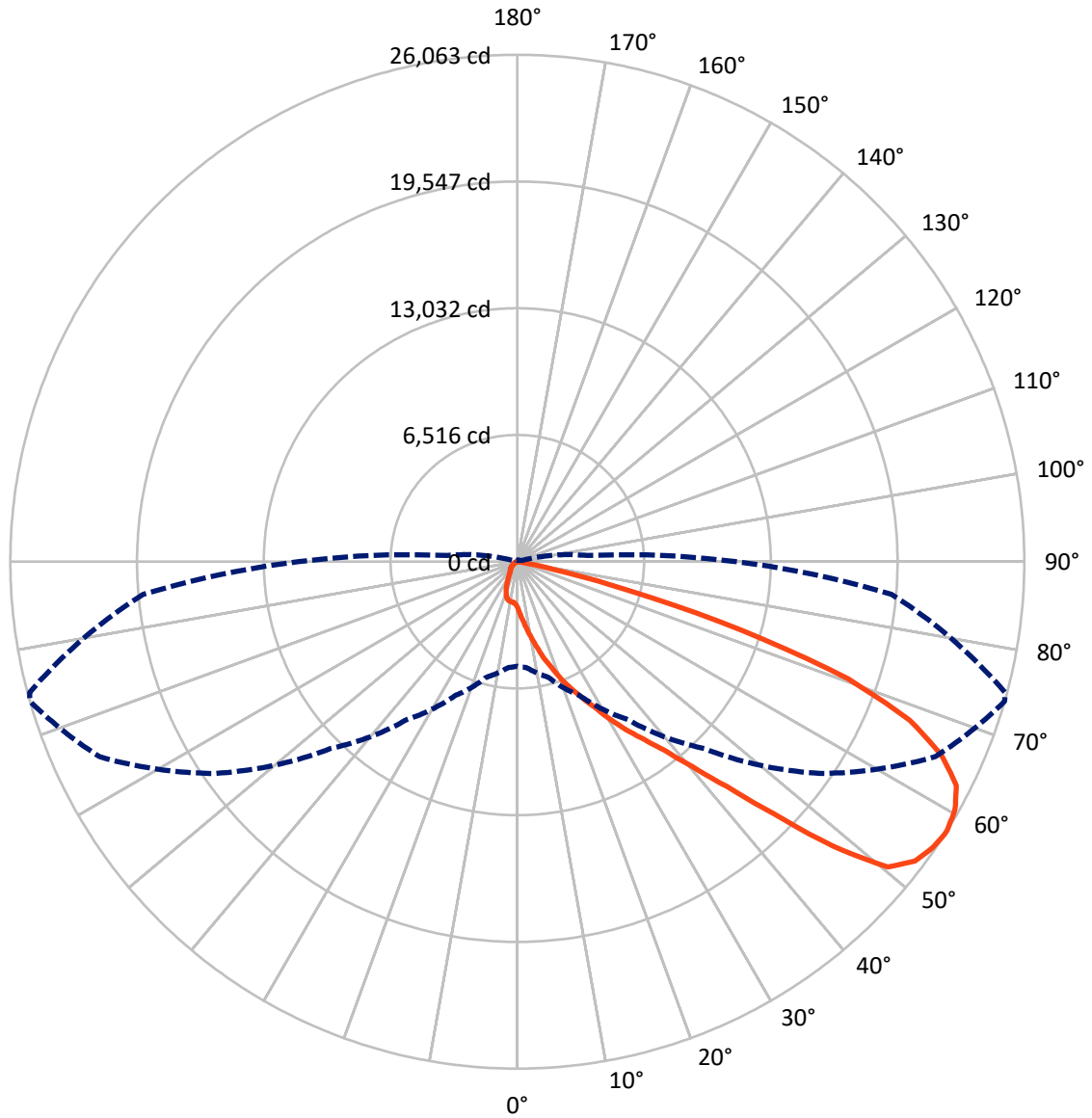
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	1625.8	0.0	1625.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26562.2	0.0	26562.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	28188.0	0.0	28188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	1.0
10°-20°	1123.1	4.0
20°-30°	2403.2	8.5
30°-40°	4417.1	15.7
40°-50°	6771.5	24.0
50°-60°	7163.3	25.4
60°-70°	4677.8	16.6
70°-80°	1278.2	4.5
80°-90°	68.8	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°	28188.0	100.0
0°-180°	28188.0	100.0

Coefficient of Utilization



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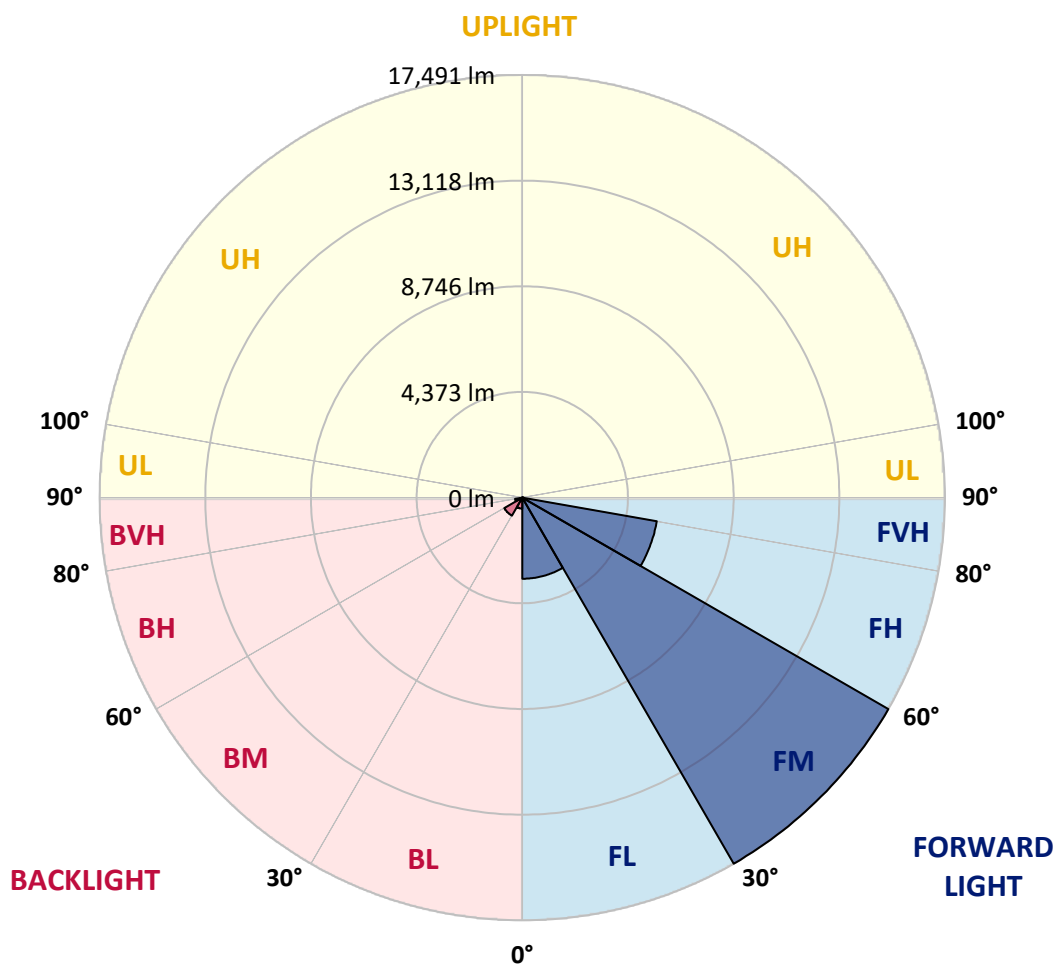
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3357.2	11.9			
FM (30°-60°)	17491.2	62.1			
FH (60°-80°)	5650.8	20.0			G3/7500
FVH (80°-90°)	63.1	0.2			G1/100
BL (0°-30°)	454.1	1.6	B1/500		
BM (30°-60°)	860.7	3.1	B1/1000		
BH (60°-80°)	305.2	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7
2.5°	3454.5	3423.3	3361.0	3339.6	3248.2	3106.1	2981.5	2814.2	2681.8	2668.2	2508.6
5°	4626.1	4556.0	4526.8	4386.7	4166.8	3960.5	3606.3	3337.7	3028.2	3004.9	2683.8
7.5°	5754.8	5657.5	5628.3	5496.0	5239.1	4914.1	4454.8	3966.3	3475.9	3431.1	2919.3
10°	6572.2	6585.9	6533.3	6445.7	6237.5	5906.6	5340.3	4672.8	3974.1	3917.6	3183.9
12.5°	7158.0	7156.1	7165.8	7163.9	7052.9	6801.9	6206.3	5437.6	4522.9	4412.0	3487.5
15°	7539.5	7545.3	7574.5	7675.7	7687.4	7531.7	7035.4	6169.4	5159.3	5021.1	3816.4
17.5°	7924.8	7965.7	8012.4	8107.8	8193.4	8131.1	7780.8	6932.3	5735.4	5632.2	4168.7
20°	8561.2	8617.7	8590.4	8648.8	8693.6	8699.4	8428.9	7636.8	6434.0	6260.8	4571.6
22.5°	9579.1	9577.1	9507.1	9402.0	9314.4	9310.5	9065.3	8360.8	7068.5	6901.1	4976.4
25°	10865.5	10871.3	10735.1	10435.4	10217.4	9950.8	9668.6	8995.2	7747.7	7541.4	5402.6
27.5°	12340.7	12303.7	12097.4	11684.8	11252.8	10797.4	10390.6	9732.8	8467.8	8296.5	5891.1
30°	13666.0	13652.4	13411.1	12907.0	12338.7	11881.4	11291.7	10657.2	9400.0	9189.8	6437.9
32.5°	14899.9	14919.4	14584.6	14063.0	13514.2	12986.8	12364.0	11540.8	10314.7	10017.0	7033.5
35°	15863.3	15882.7	15536.3	15102.3	14537.9	14100.0	13506.4	12482.8	11217.7	10966.7	7718.5
37.5°	16377.0	16402.3	16201.9	15874.9	15522.7	15302.8	14750.0	13695.2	12315.4	12163.6	8528.1
40°	16474.4	16503.6	16416.0	16328.4	16308.9	16466.6	16305.0	15123.7	13837.3	13599.9	9734.8
42.5°	16182.4	16221.4	16260.3	16454.9	16851.9	17429.9	17992.4	17062.1	15797.1	15477.9	11210.0
45°	15415.6	15411.7	15565.5	16069.6	16959.0	18192.8	19755.6	19489.0	18467.2	18087.7	13294.3
47.5°	14103.9	14084.5	14417.3	15135.4	16521.1	18333.0	21193.8	22435.5	21875.0	21524.7	15534.4
50°	12105.2	12200.6	12724.1	13726.4	15433.2	17908.7	21637.6	24368.0	24671.6	24299.9	17344.3
52.5°	9764.0	9760.1	10581.3	11941.7	13821.7	16974.5	21328.1	24718.3	25580.5	25296.4	18235.6
55°	7226.1	7276.7	8131.1	9503.2	11729.6	15269.7	20318.0	24358.3	25926.9	25726.5	18823.4
57°	5375.3	5464.9	6149.9	7601.8	9908.0	13582.3	18973.2	23714.1	26063.2	25954.2	19311.9
57.5°	5017.2	5021.1	5688.7	7008.2	9374.7	12934.3	18587.9	23445.6	26059.3	25998.9	19391.7
60°	3088.6	3185.9	3647.1	4737.0	6862.2	10094.8	16005.3	21902.2	25856.9	25944.4	19732.3
62.5°	1848.9	1889.7	2189.4	2855.0	4423.7	7368.2	13097.7	19926.9	25329.4	25596.1	19708.9
65°	1189.1	1198.8	1335.1	1728.2	2765.5	4980.3	10092.9	17317.1	23965.2	24455.6	18938.2
67.5°	918.6	934.2	988.7	1134.6	1603.6	3102.2	7138.6	14532.1	21758.2	22390.7	17069.9
70°	815.4	823.2	842.7	889.4	1060.7	1751.6	4441.2	11352.0	18043.0	18222.0	13358.5
72.5°	665.6	687.0	747.3	762.9	840.7	1093.7	2471.6	7619.3	12122.7	12167.5	7473.3
75°	515.7	519.6	609.2	653.9	708.4	753.2	1103.5	3841.7	5823.0	5511.6	2880.3
77.5°	385.3	402.9	443.7	500.2	578.0	539.1	494.3	1448.0	1808.0	1774.9	836.9
80°	247.2	256.9	309.4	375.6	449.6	352.3	278.3	424.3	397.0	408.7	200.5
82.5°	124.6	126.5	198.5	305.5	286.1	177.1	175.2	173.2	147.9	146.0	93.4
85°	13.6	29.2	128.4	175.2	128.4	58.4	81.7	79.8	77.8	79.8	54.5
87.5°	1.9	1.9	21.4	25.3	17.5	19.5	23.4	25.3	31.1	29.2	23.4
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°	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7	2360.7
2.5°	2430.8	2352.9	2208.9	2070.7	1967.6	1901.4	1815.8	1784.6	1739.9	1734.0	1712.6
5°	2535.9	2388.0	2136.9	1938.4	1778.8	1658.1	1553.0	1465.5	1395.4	1379.8	1387.6
7.5°	2685.7	2465.8	2115.5	1845.0	1623.1	1416.8	1249.4	1146.3	1072.3	1045.1	1049.0
10°	2855.0	2568.9	2111.6	1745.7	1407.1	1154.1	971.1	879.7	836.9	821.3	803.8
12.5°	3055.5	2687.7	2101.9	1592.0	1169.7	920.5	790.1	735.7	694.8	683.1	683.1
15°	3281.2	2814.2	2055.2	1401.2	949.7	761.0	673.4	630.6	616.9	605.3	605.3
17.5°	3516.7	2938.7	1957.9	1165.8	788.2	652.0	597.5	572.2	552.7	539.1	539.1
20°	3785.3	3061.3	1802.2	957.5	665.6	581.9	539.1	509.9	494.3	482.7	478.8
22.5°	4040.3	3160.6	1603.6	786.3	580.0	523.5	484.6	453.5	437.9	432.1	432.1
25°	4304.9	3220.9	1364.3	650.0	529.4	474.9	432.1	406.8	393.1	389.2	387.3
27.5°	4561.8	3255.9	1154.1	568.3	482.7	430.1	389.2	369.8	356.1	352.3	354.2
30°	4873.2	3261.8	949.7	509.9	441.8	387.3	350.3	332.8	325.0	321.1	319.2
32.5°	5188.5	3254.0	797.9	474.9	402.9	350.3	319.2	305.5	299.7	293.9	293.9
35°	5542.7	3213.1	679.2	439.8	365.9	319.2	291.9	280.2	272.5	266.6	264.7
37.5°	5982.5	3191.7	611.1	400.9	332.8	290.0	264.7	253.0	247.2	239.4	237.4
40°	6675.4	3287.1	589.7	365.9	299.7	262.7	239.4	225.8	218.0	210.2	208.2
42.5°	7539.5	3454.5	554.7	330.8	270.5	237.4	214.1	198.5	184.9	175.2	171.3
45°	8658.5	3674.4	500.2	293.9	245.2	210.2	188.8	169.3	151.8	144.0	142.1
47.5°	9832.1	3886.5	451.5	264.7	218.0	186.8	163.5	142.1	126.5	120.7	118.7
50°	10552.2	3929.3	420.4	231.6	190.7	161.5	138.2	118.7	109.0	103.1	103.1
52.5°	10881.1	3861.2	377.6	202.4	165.4	142.1	118.7	103.1	97.3	93.4	91.5
55°	11110.7	3756.1	321.1	175.2	142.1	120.7	105.1	93.4	85.6	81.7	79.8
57°	11245.0	3614.0	278.3	153.7	122.6	105.1	93.4	83.7	75.9	68.1	68.1
57.5°	11250.8	3559.6	266.6	151.8	116.8	101.2	91.5	81.7	72.0	64.2	62.3
60°	11077.6	3185.9	214.1	128.4	93.4	85.6	75.9	64.2	50.6	42.8	40.9
62.5°	10521.0	2711.0	177.1	109.0	75.9	66.2	54.5	48.7	35.0	25.3	25.3
65°	9678.3	2199.2	151.8	87.6	62.3	48.7	37.0	35.0	21.4	11.7	9.7
67.5°	8460.0	1712.6	128.4	72.0	52.5	35.0	25.3	23.4	11.7	3.9	0.0
70°	6445.7	1167.7	107.0	58.4	38.9	25.3	17.5	13.6	7.8	1.9	0.0
72.5°	3715.2	642.2	89.5	44.8	29.2	19.5	13.6	7.8	7.8	0.0	0.0
75°	1327.3	276.4	68.1	33.1	23.4	15.6	9.7	3.9	5.8	1.9	0.0
77.5°	422.3	147.9	44.8	25.3	19.5	11.7	7.8	3.9	3.9	1.9	0.0
80°	124.6	77.8	27.2	21.4	13.6	9.7	5.8	1.9	3.9	1.9	0.0
82.5°	68.1	38.9	21.4	15.6	13.6	7.8	5.8	1.9	1.9	1.9	0.0
85°	35.0	23.4	17.5	15.6	13.6	7.8	5.8	1.9	0.0	1.9	1.9
87.5°	19.5	17.5	17.5	15.6	13.6	9.7	5.8	1.9	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)