

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: P383682

Luminaire Tested: **GLEON-SA9C-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42924.8 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

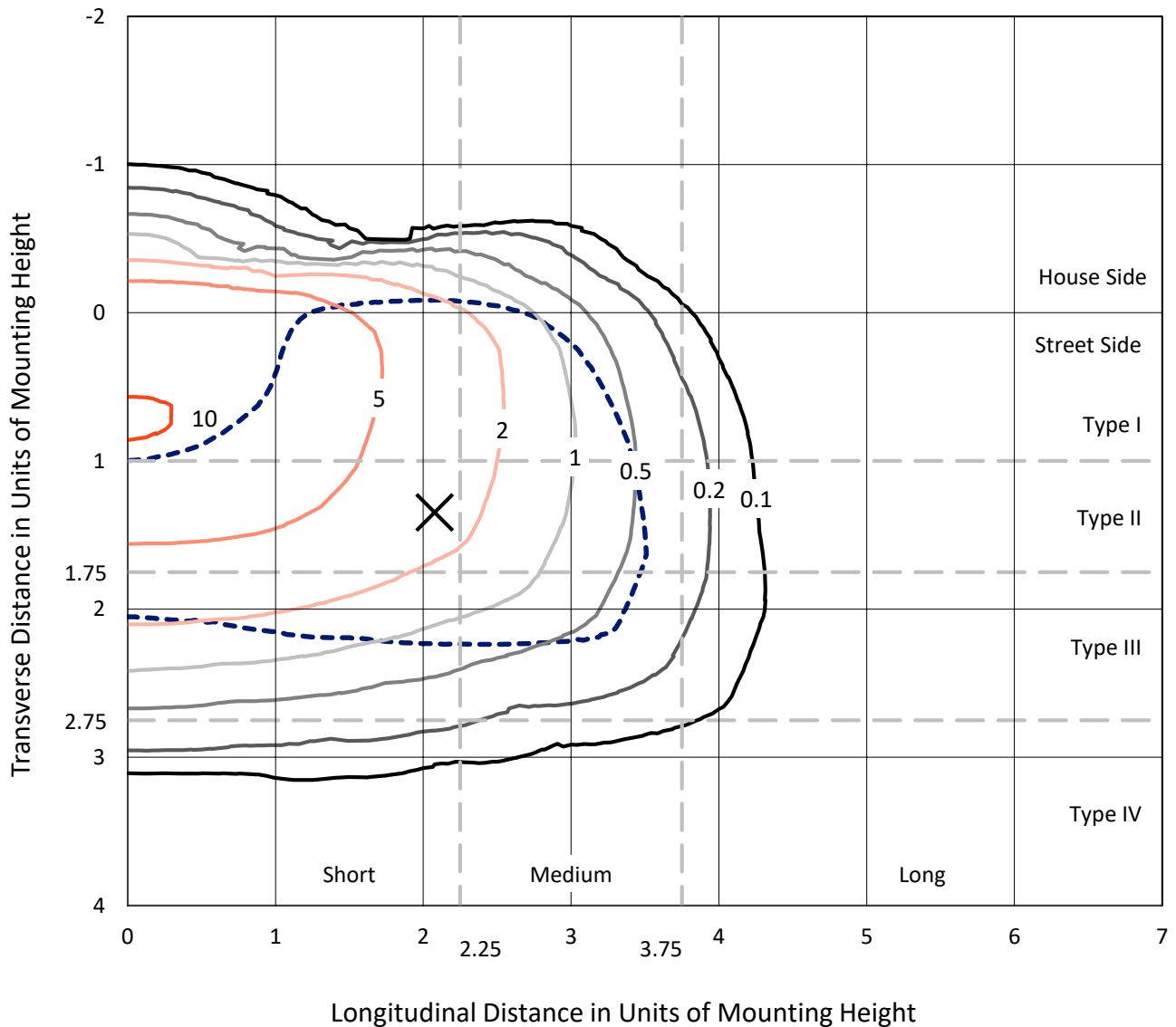
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

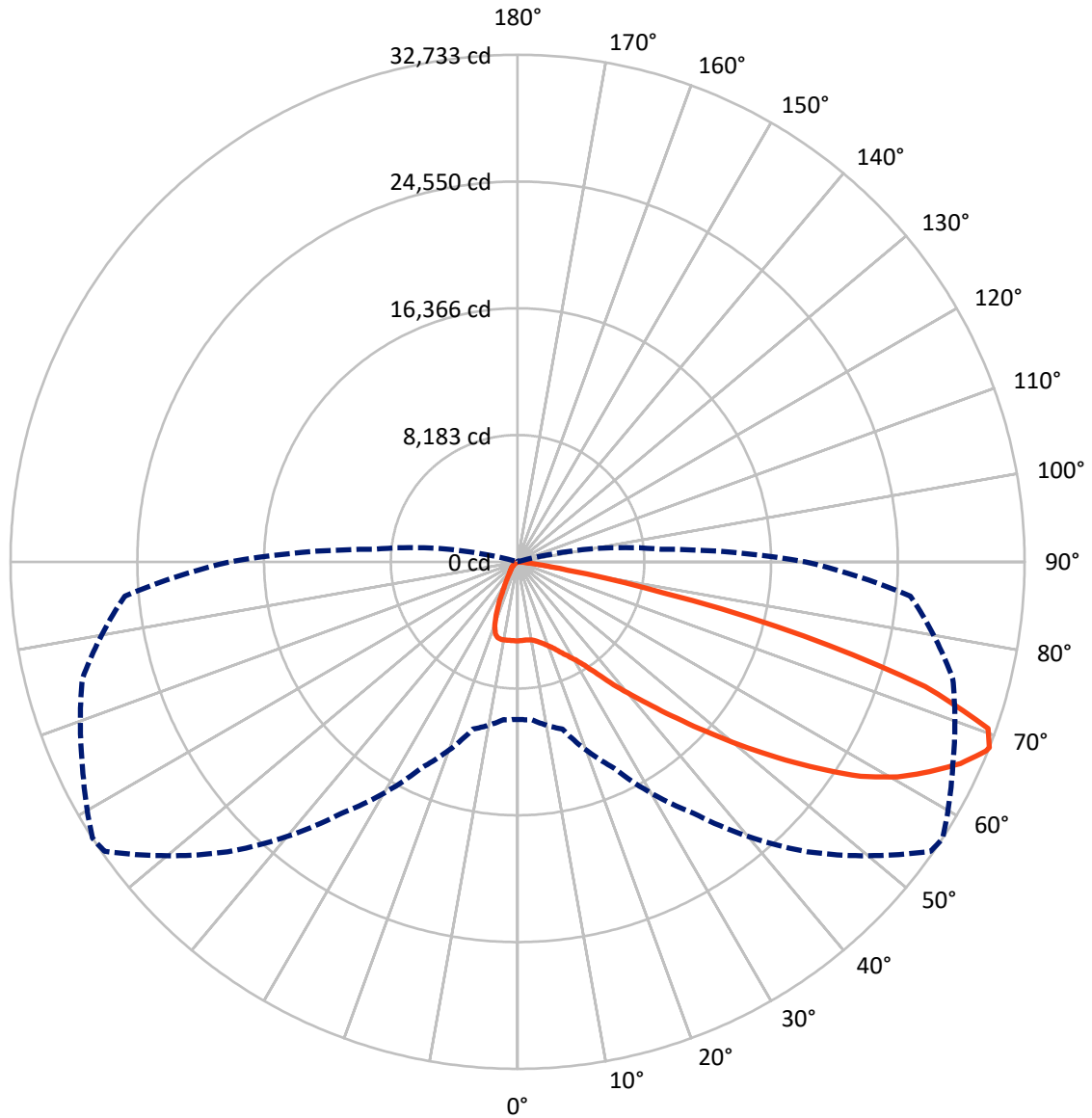
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4707.0	0.0	4707.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	38217.8	0.0	38217.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	42924.8	0.0	42924.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.3	1.1
10°-20°	1322.7	3.1
20°-30°	2281.9	5.3
30°-40°	3938.4	9.2
40°-50°	6736.7	15.7
50°-60°	10778.1	25.1
60°-70°	12452.9	29.0
70°-80°	4758.4	11.1
80°-90°	178.4	0.4
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°	42924.8	100.0
0°-180°	42924.8	100.0

Coefficient of Utilization

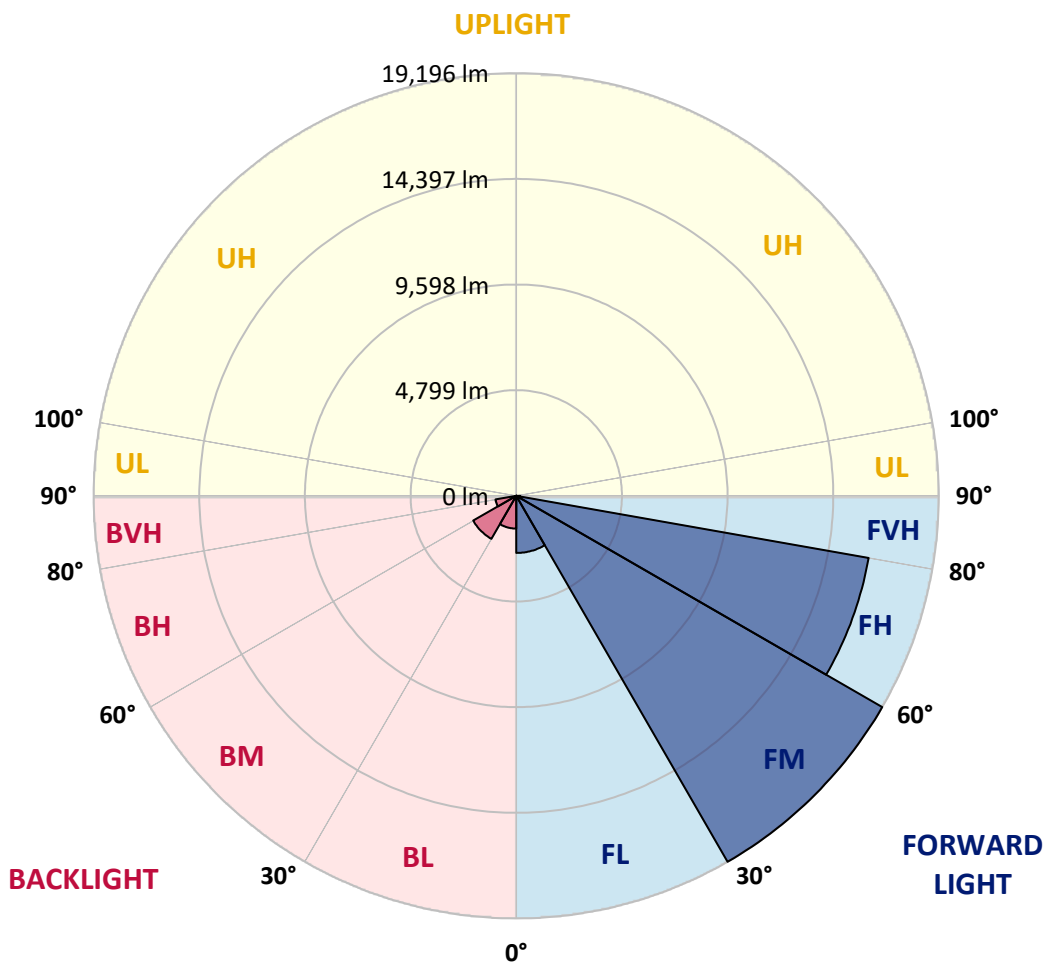


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2594.4	6.0			
FM (30°-60°)	19195.6	44.7			
FH (60°-80°)	16252.7	37.9			G5
FVH (80°-90°)	175.1	0.4			G2/225
BL (0°-30°)	1487.5	3.5	B3/2500		
BM (30°-60°)	2257.5	5.3	B2/2500		
BH (60°-80°)	958.6	2.2	B2/1000		G2/1000
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6
2.5°	4980.8	5003.2	5019.4	5029.5	5041.7	5068.1	5076.3	5088.4	5094.5	5094.5	5108.7
5°	4784.0	4808.3	4842.8	4871.2	4928.1	5001.1	5053.9	5074.2	5110.7	5143.3	5161.5
7.5°	4601.3	4629.7	4670.3	4737.3	4834.7	4952.4	5062.0	5090.4	5161.5	5230.5	5265.0
10°	4483.5	4505.9	4558.7	4654.1	4781.9	4946.3	5100.6	5135.1	5256.9	5372.6	5437.5
12.5°	4443.0	4463.2	4518.1	4625.7	4784.0	4976.8	5189.9	5240.6	5419.3	5587.7	5679.1
15°	4501.8	4505.9	4564.8	4666.2	4822.5	5051.9	5338.0	5399.0	5624.2	5843.5	5957.2
17.5°	4729.2	4710.9	4741.3	4786.0	4909.8	5151.4	5494.4	5585.7	5886.1	6143.8	6251.4
20°	5297.4	5297.4	5228.5	5106.7	5108.7	5305.6	5705.4	5808.9	6176.3	6474.7	6572.2
22.5°	6269.7	6251.4	6113.4	5815.0	5541.0	5571.5	5963.2	6097.2	6525.4	6844.1	6876.6
25°	7438.8	7416.4	7203.4	6783.3	6308.3	6001.8	6312.4	6466.6	6941.5	7223.7	7156.7
27.5°	8676.9	8658.6	8447.6	7925.9	7250.0	6687.8	6728.4	6874.5	7365.7	7643.8	7430.7
30°	9876.5	9882.5	9673.5	9137.6	8372.5	7562.6	7256.1	7341.3	7777.8	8059.8	7755.4
32.5°	11017.1	11025.2	10844.6	10245.8	9531.4	8579.5	7986.8	7964.5	8256.8	8534.8	8185.7
35°	12034.0	12054.3	11930.5	11465.7	10708.6	9712.0	8934.7	8881.9	8936.7	9251.3	8845.3
37.5°	13014.4	13026.5	12933.1	12541.4	11908.2	10956.2	10132.2	10057.1	9939.3	10180.9	9716.1
40°	14088.1	14057.6	13950.0	13594.8	13050.9	12330.3	11419.0	11289.1	11084.1	11299.2	10860.8
42.5°	15086.6	15052.1	15070.4	14668.5	14209.8	13743.0	12919.0	12695.7	12575.9	12823.5	12265.4
45°	16334.9	16316.6	16377.5	16028.4	15657.0	15318.0	14638.1	14394.6	14341.7	14632.0	13964.3
47.5°	17566.9	17611.6	17800.3	17652.2	17502.0	17203.6	16458.7	16349.1	16381.5	16732.7	15756.5
50°	18594.0	18646.7	19164.3	19334.7	19552.0	19377.4	18630.5	18563.5	18691.3	19007.9	17684.6
52.5°	19336.8	19444.4	20087.8	20873.3	21664.8	21782.6	21037.7	20976.8	21149.3	21198.0	19174.4
55°	19852.3	19947.7	20676.4	22113.4	23724.9	24232.4	23769.6	23534.2	23501.7	23020.7	20741.4
57.5°	19943.7	19933.5	20980.9	22915.1	25340.6	26649.7	26357.5	26126.1	25460.3	24705.3	22537.6
60°	19428.2	19487.0	20702.8	23193.2	26355.4	28478.5	28500.8	28200.5	27163.3	26343.2	24279.1
62.5°	17840.9	18080.4	19308.4	22464.5	26343.2	29215.3	30071.8	29842.4	28602.3	27684.8	26044.9
65°	15267.3	15352.6	16523.7	19968.0	24563.2	28906.8	31486.5	31401.3	29899.2	28988.0	26952.2
67.5°	11149.0	10964.3	12194.3	15724.0	20796.1	27108.5	32501.3	32608.9	30899.9	29255.9	25986.1
68°	10174.8	10229.6	11187.6	14674.6	19809.7	26473.2	32568.3	32732.7	30999.4	29081.3	25458.4
70°	6064.7	6170.2	7024.7	10103.8	15070.4	22878.6	31845.7	32221.2	30406.7	27281.0	22020.0
72.5°	1548.6	1674.5	2482.3	4522.1	8607.9	16119.8	26883.2	27518.5	26400.1	22131.7	14865.5
75°	637.4	669.8	886.9	1489.8	3206.9	7262.3	17719.2	19079.0	18301.6	13249.8	6718.2
77.5°	440.4	462.8	570.4	826.1	1388.3	2462.0	8687.1	9669.4	8711.4	4522.1	1465.4
80°	316.6	334.9	407.9	550.1	797.7	878.8	2831.4	3273.9	2600.0	992.5	363.3
82.5°	188.7	203.0	304.4	391.7	485.1	420.1	704.3	799.7	753.0	493.3	162.4
85°	93.3	109.6	205.0	280.1	261.9	176.6	215.2	239.5	296.3	300.4	87.3
87.5°	6.1	12.2	119.8	168.4	73.0	40.6	62.9	77.1	105.5	148.2	36.5
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°	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6	5100.6
2.5°	5114.8	5116.8	5102.6	5096.5	5100.6	5076.3	5066.1	5070.1	5070.1	5076.3	5066.1
5°	5165.5	5165.5	5141.2	5108.7	5090.4	5043.8	5013.3	5005.2	4999.2	4995.1	4986.9
7.5°	5275.2	5263.0	5220.4	5149.3	5088.4	4986.9	4909.8	4869.2	4848.9	4840.8	4834.7
10°	5451.7	5429.4	5358.4	5226.4	5086.3	4905.7	4737.3	4617.5	4518.1	4477.5	4453.2
12.5°	5689.2	5656.7	5536.9	5317.7	5072.2	4739.3	4374.0	4022.8	3696.0	3562.1	3495.1
15°	5963.2	5916.5	5727.8	5394.9	4989.0	4363.8	3570.2	2955.2	2502.6	2332.1	2259.0
17.5°	6241.3	6180.4	5894.2	5443.6	4739.3	3586.5	2504.7	1891.7	1589.2	1508.1	1479.7
20°	6521.4	6432.1	6038.3	5407.1	4175.1	2585.8	1652.2	1382.2	1294.9	1270.5	1262.4
22.5°	6787.3	6649.2	6168.2	5265.0	3306.3	1735.4	1307.1	1221.9	1193.5	1179.2	1175.1
25°	7018.7	6825.8	6281.9	4826.6	2340.2	1311.2	1177.2	1148.8	1112.3	1085.9	1088.0
27.5°	7235.8	7002.4	6350.9	4104.0	1560.8	1120.4	1089.9	1051.3	984.4	945.8	945.8
30°	7497.7	7237.8	6401.6	3158.2	1148.8	990.5	966.1	907.2	815.9	765.2	765.2
32.5°	7891.4	7595.1	6369.2	2216.4	951.9	870.7	813.9	732.8	633.3	584.5	582.5
35°	8494.2	8147.1	6137.8	1453.2	840.3	757.1	665.8	566.3	479.0	438.4	436.3
37.5°	9306.1	8885.9	5618.2	1039.2	753.0	651.5	541.9	432.3	367.4	340.9	339.0
40°	10359.5	9744.5	4875.3	842.3	671.8	550.1	418.1	334.9	290.3	270.0	272.0
42.5°	11624.0	10664.0	3984.2	726.6	592.7	452.6	326.8	263.8	235.4	221.2	217.1
45°	13028.5	11571.2	3050.6	647.4	513.5	365.4	255.7	209.0	186.8	178.6	178.6
47.5°	14573.1	12454.1	2232.6	578.5	428.2	282.2	205.0	170.5	152.2	146.2	144.1
50°	15975.7	13067.1	1609.5	505.4	351.1	223.3	166.5	142.1	129.9	121.8	121.8
52.5°	17144.8	13259.9	1185.3	426.3	284.1	178.6	138.1	121.8	109.6	103.5	103.5
55°	18173.7	13180.7	880.9	351.1	229.3	146.2	117.7	103.5	93.3	87.3	87.3
57.5°	19160.3	12925.0	657.6	286.2	184.7	117.7	99.5	87.3	77.1	73.0	73.0
60°	19966.0	12498.8	489.2	231.4	148.2	95.4	83.2	71.1	62.9	56.8	56.8
62.5°	20619.5	12027.9	359.3	190.8	117.7	75.1	64.9	58.9	46.7	40.6	40.6
65°	20623.6	11246.5	270.0	158.3	91.3	58.9	48.7	46.7	30.5	24.3	22.4
67.5°	19131.8	9695.8	207.0	136.0	71.1	44.6	36.5	38.6	16.2	10.2	8.1
68°	18589.9	9302.1	194.9	134.0	67.0	42.7	34.5	38.6	14.3	8.1	6.1
70°	15673.2	7400.2	156.3	129.9	58.9	32.5	28.4	38.6	12.2	6.1	4.1
72.5°	10024.6	4294.8	115.7	103.5	44.6	24.3	18.3	34.5	12.2	4.1	2.0
75°	4266.4	1331.5	79.2	73.0	26.4	18.3	12.2	22.4	8.1	2.0	0.0
77.5°	899.1	300.4	46.7	44.6	18.3	12.2	8.1	6.1	2.0	0.0	0.0
80°	231.4	87.3	24.3	22.4	10.2	6.1	4.1	0.0	0.0	0.0	0.0
82.5°	73.0	34.5	14.3	10.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.5	20.3	8.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.3	6.1	2.0	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)