

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: P383672

Luminaire Tested: **GLEON-SA9C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47807 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

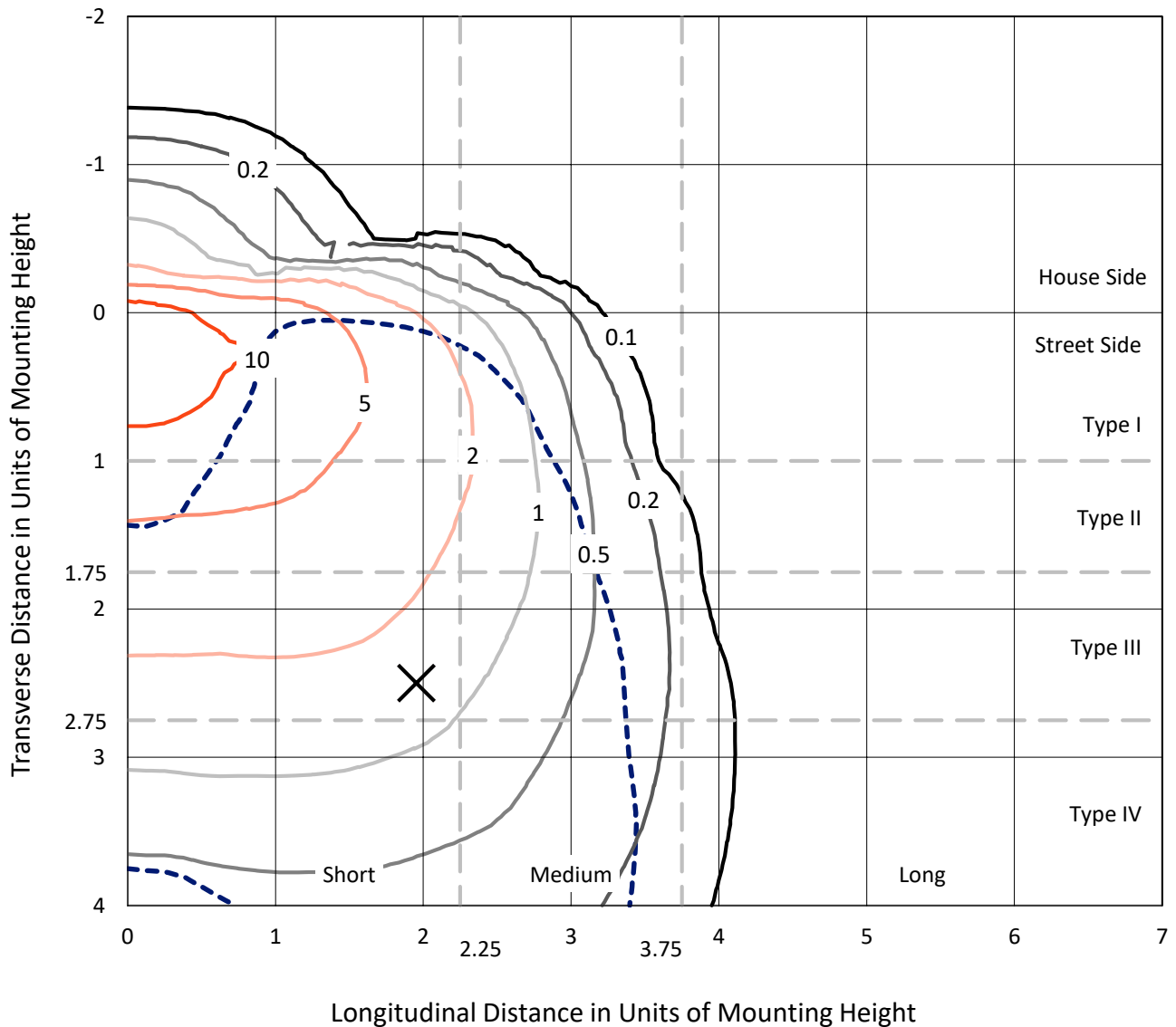
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

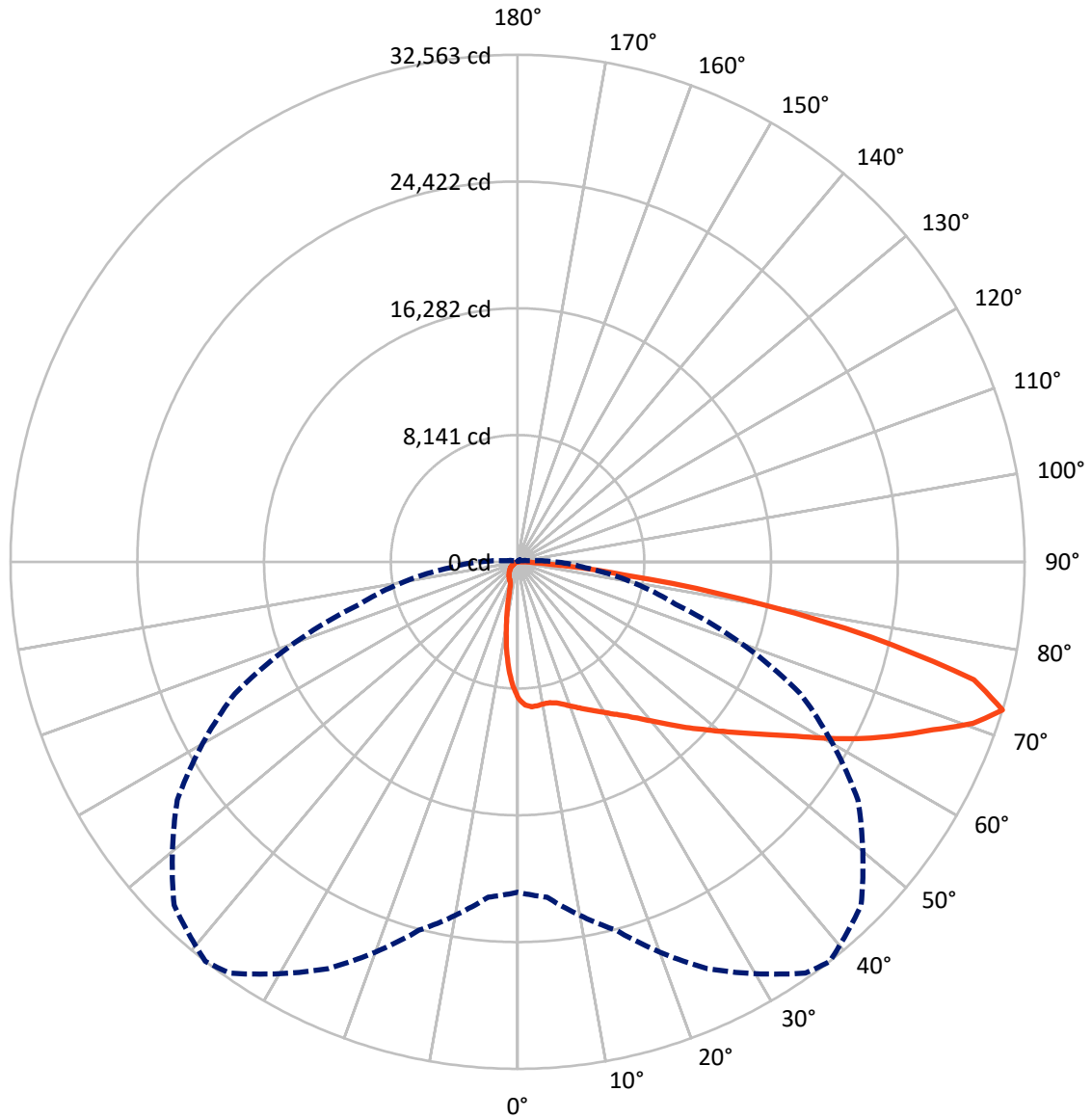
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4023.1	0.0	4023.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	43783.9	0.0	43783.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	47807.0	0.0	47807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.2	1.6
10°-20°	1832.0	3.8
20°-30°	2913.7	6.1
30°-40°	4380.5	9.2
40°-50°	6682.7	14.0
50°-60°	9445.0	19.8
60°-70°	11847.1	24.8
70°-80°	8858.3	18.5
80°-90°	1098.4	2.3
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°	47807.0	100.0
0°-180°	47807.0	100.0

Coefficient of Utilization

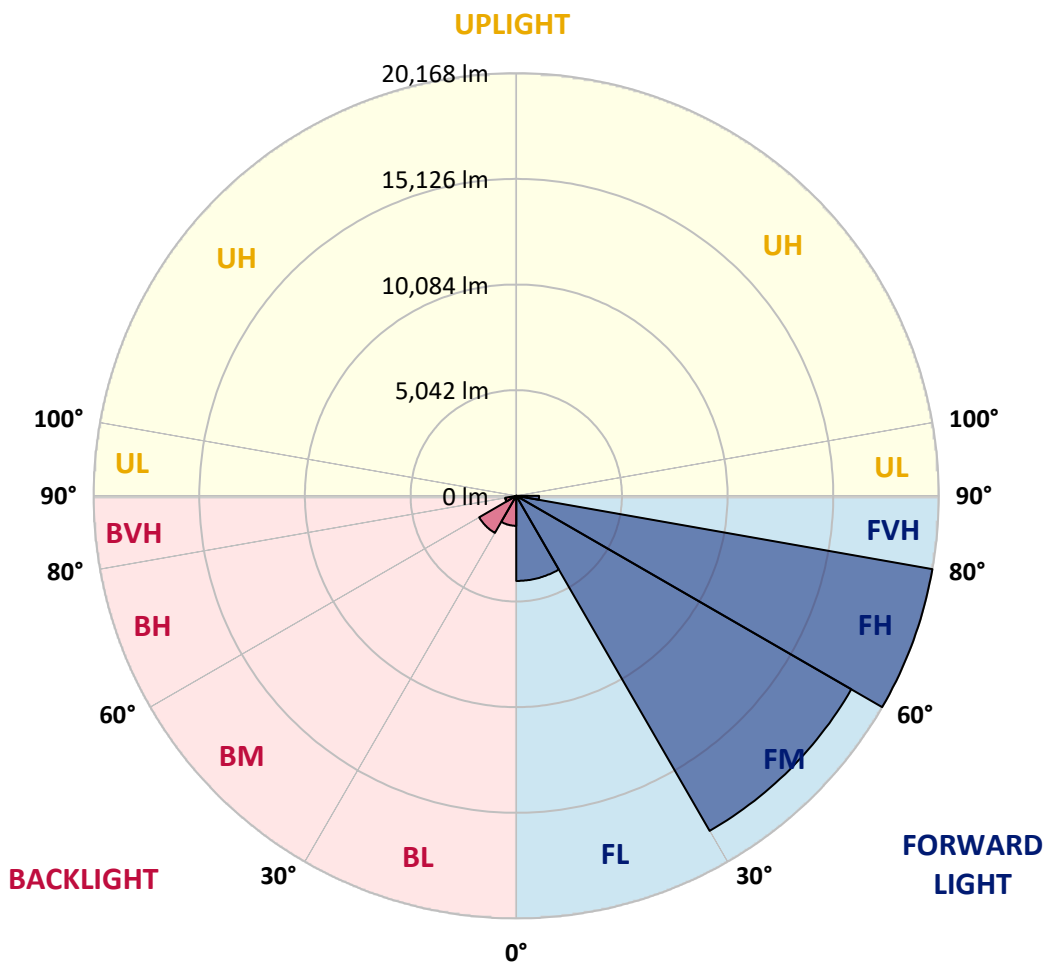


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4062.4	8.5			
FM (30°-60°)	18465.2	38.6			
FH (60°-80°)	20168.1	42.2			G5
FVH (80°-90°)	1088.2	2.3			G5
BL (0°-30°)	1432.5	3.0	B3/2500		
BM (30°-60°)	2043.0	4.3	B2/2500		
BH (60°-80°)	537.4	1.1	B2/1000		G2/1000
BVH (80°-90°)	10.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6
2.5°	9331.6	9333.5	9311.7	9276.0	9230.3	9206.5	9166.8	9103.3	9035.7	8914.6	8783.7
5°	9522.2	9522.2	9494.4	9446.7	9373.3	9351.4	9276.0	9174.7	9035.7	8839.2	8618.9
7.5°	9502.3	9506.4	9468.6	9419.0	9345.5	9325.6	9234.3	9121.2	8948.4	8710.2	8428.2
10°	9399.1	9409.0	9379.3	9355.4	9287.9	9266.1	9180.7	9067.5	8894.8	8640.7	8317.0
12.5°	9293.9	9303.8	9313.7	9335.6	9293.9	9285.9	9218.4	9123.1	8958.3	8694.2	8329.0
15°	9226.3	9246.3	9317.7	9403.0	9413.0	9405.1	9361.4	9272.1	9105.2	8831.3	8414.3
17.5°	9226.3	9258.1	9407.0	9569.9	9627.5	9633.4	9595.7	9470.6	9272.1	8978.2	8493.8
20°	9303.8	9347.5	9579.8	9810.1	9905.4	9905.4	9831.9	9657.2	9424.9	9111.2	8547.3
22.5°	9502.3	9559.9	9851.8	10117.8	10219.1	10197.3	10098.0	9843.8	9583.8	9262.1	8614.9
25°	9893.5	9937.2	10241.0	10509.0	10570.6	10520.9	10395.8	10070.2	9786.3	9466.6	8737.9
27.5°	10397.7	10403.7	10717.5	10943.8	10906.1	10872.3	10715.4	10354.1	10078.1	9758.4	8950.4
30°	10951.7	10951.7	11227.7	11400.5	11285.2	11257.5	11100.6	10697.6	10451.4	10155.5	9252.2
32.5°	11487.8	11511.6	11736.0	11845.2	11716.1	11688.3	11535.4	11132.4	10947.7	10761.1	9722.7
35°	12006.0	12023.9	12236.3	12295.9	12172.8	12180.7	12071.6	11730.0	11660.6	11636.7	10431.6
37.5°	12508.3	12512.3	12728.7	12766.4	12704.9	12772.4	12782.3	12480.5	12609.5	12802.2	11430.2
40°	12967.0	12971.0	13185.3	13282.7	13387.8	13475.2	13552.6	13391.8	13818.7	14265.4	12619.5
42.5°	13334.3	13375.9	13647.9	13832.6	14110.5	14277.4	14487.8	14479.9	15258.2	15929.3	14057.0
45°	13657.9	13729.3	14108.6	14432.2	14908.7	15174.7	15504.3	15762.4	16878.2	17781.7	15512.3
47.5°	14084.7	14152.3	14585.1	15115.2	15750.5	16099.9	16646.0	17203.9	18659.2	19600.3	16933.9
50°	14686.3	14656.6	15083.4	15843.9	16659.9	17118.5	17896.8	18732.7	20426.2	21184.7	17769.7
52.5°	15327.7	15315.8	15631.4	16636.0	17732.0	18268.1	19296.5	20313.1	22115.9	22276.7	18153.0
55°	16121.8	16036.4	16302.5	17539.5	19004.7	19580.5	20791.6	21877.6	23462.1	22892.2	18345.5
57.5°	16953.7	16812.8	17066.9	18546.1	20440.2	21121.2	22447.4	23402.4	24357.5	23313.1	18343.6
60°	17813.4	17646.7	17948.4	19804.8	22223.1	23011.3	24242.3	24432.9	25193.3	23525.6	18208.5
62.5°	18532.1	18432.9	18881.6	21151.0	24214.5	24988.9	25598.4	25370.0	25898.1	23690.4	17892.8
65°	19292.5	19298.5	20023.2	22721.5	26330.9	26853.2	26904.8	26585.2	26487.8	23656.6	16824.7
67.5°	20321.1	20416.4	21625.5	24853.8	28389.8	28792.9	28788.9	27901.4	26918.7	22314.4	14456.0
70°	21409.1	21633.4	23471.9	27293.9	30637.4	31046.4	30836.0	28739.4	25346.2	18043.7	10231.0
72.5°	21226.4	21615.5	24498.4	28832.6	32251.6	32563.3	31195.3	26680.5	20033.1	10487.1	4356.1
75°	16376.0	16826.6	22463.3	27307.9	30558.0	30278.1	26803.5	20761.8	10947.7	2926.5	980.8
77.5°	8650.6	8890.8	14839.2	20803.5	23827.3	23241.6	18881.6	11517.6	3337.5	724.7	440.8
80°	4530.8	4586.4	6466.6	11803.5	14706.2	14710.2	11189.9	5059.0	1375.9	371.3	295.9
82.5°	2426.2	2473.9	3416.9	5454.0	7705.5	6984.8	4284.6	2783.6	800.1	210.4	283.9
85°	583.7	593.7	1937.8	2491.7	3029.8	2164.2	1272.7	2336.9	216.4	123.1	230.3
87.5°	224.3	228.3	718.7	1078.1	772.3	500.3	595.6	871.6	27.8	47.7	35.8
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°	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6	8791.6
2.5°	8704.2	8652.6	8525.5	8364.6	8221.7	8118.5	7963.6	7862.4	7794.8	7792.9	7767.1
5°	8483.8	8378.6	8104.6	7779.0	7483.1	7217.1	6903.4	6655.3	6470.5	6440.8	6377.3
7.5°	8247.5	8074.8	7653.9	7145.6	6649.3	6145.0	5559.3	5195.9	4884.2	4735.2	4719.4
10°	8102.6	7860.4	7262.7	6528.1	5749.9	4929.8	4163.5	3633.4	3250.2	3141.0	3059.6
12.5°	8072.8	7753.2	6961.0	5948.4	4836.5	3752.5	2904.8	2340.9	2035.1	1937.8	1912.0
15°	8102.6	7703.5	6706.9	5374.6	3911.3	2662.5	1949.7	1622.1	1507.0	1479.1	1477.2
17.5°	8120.5	7644.0	6418.9	4737.3	3013.9	1902.0	1493.1	1397.8	1379.9	1377.9	1381.9
20°	8118.5	7552.6	6075.5	4026.5	2241.6	1495.0	1350.1	1330.2	1326.2	1328.3	1326.2
22.5°	8104.6	7445.4	5698.2	3293.9	1693.6	1336.2	1288.5	1276.7	1274.6	1274.6	1274.6
25°	8130.4	7360.1	5283.3	2593.0	1395.7	1262.7	1233.0	1223.0	1221.1	1221.1	1217.1
27.5°	8223.7	7312.4	4828.6	1995.4	1260.8	1197.2	1173.4	1171.4	1165.5	1163.5	1167.4
30°	8374.6	7312.4	4330.3	1552.6	1179.3	1129.7	1111.9	1107.9	1105.9	1103.9	1105.9
32.5°	8640.7	7368.0	3786.3	1290.6	1101.9	1054.2	1042.4	1048.3	1042.4	1042.4	1042.4
35°	9121.2	7534.7	3216.4	1125.8	1020.5	980.8	968.9	976.8	972.9	972.9	970.9
37.5°	9822.0	7844.5	2642.6	1026.5	949.1	907.3	891.5	903.4	899.4	899.4	897.5
40°	10675.7	8295.2	2096.6	951.0	879.6	835.9	822.0	828.0	818.0	818.0	822.0
42.5°	11730.0	8867.0	1620.1	877.6	810.1	768.3	760.4	754.5	736.6	726.7	728.7
45°	12901.5	9462.7	1262.7	806.1	744.6	710.8	698.8	683.0	653.2	633.4	635.3
47.5°	13947.8	9921.3	1026.5	736.6	685.0	659.2	641.3	611.6	567.9	544.0	546.0
50°	14497.8	9990.8	873.6	667.1	629.4	603.5	577.7	532.1	480.5	454.7	452.6
52.5°	14638.7	9665.2	760.4	603.5	573.8	544.0	510.3	448.7	391.2	363.3	359.4
55°	14690.3	9168.8	659.2	544.0	514.2	480.5	436.8	367.3	313.7	285.9	283.9
57.5°	14519.6	8428.2	579.8	490.4	454.7	413.0	359.4	293.8	242.2	220.4	220.4
60°	14140.3	7425.6	518.2	432.8	393.1	345.5	289.9	228.3	180.7	162.8	162.8
62.5°	13383.9	6127.1	460.7	373.3	335.5	285.9	234.3	172.7	127.1	117.1	119.1
65°	11956.3	4648.0	403.1	319.6	285.9	236.2	182.7	123.1	85.3	85.3	89.3
67.5°	9750.5	3228.4	343.5	272.0	246.2	192.6	139.0	85.3	59.5	67.5	75.5
70°	6454.7	1810.7	293.8	224.3	210.4	152.9	103.2	57.6	47.7	63.5	77.4
72.5°	2436.2	704.8	246.2	180.7	182.7	117.1	73.5	43.7	43.7	69.5	91.3
75°	679.0	345.5	176.7	133.0	143.0	85.3	53.6	37.7	41.7	79.5	107.2
77.5°	399.1	254.1	115.1	77.4	97.3	59.5	35.8	29.8	35.8	67.5	103.2
80°	321.7	135.0	67.5	39.7	53.6	33.7	23.8	17.9	10.0	25.8	53.6
82.5°	321.7	81.4	31.8	27.8	27.8	17.9	11.9	7.9	2.0	0.0	13.9
85°	216.4	33.7	19.8	17.9	13.9	6.0	4.0	2.0	0.0	0.0	0.0
87.5°	35.8	13.9	7.9	4.0	2.0	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)