

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: P193688

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45055 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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: 25 FT

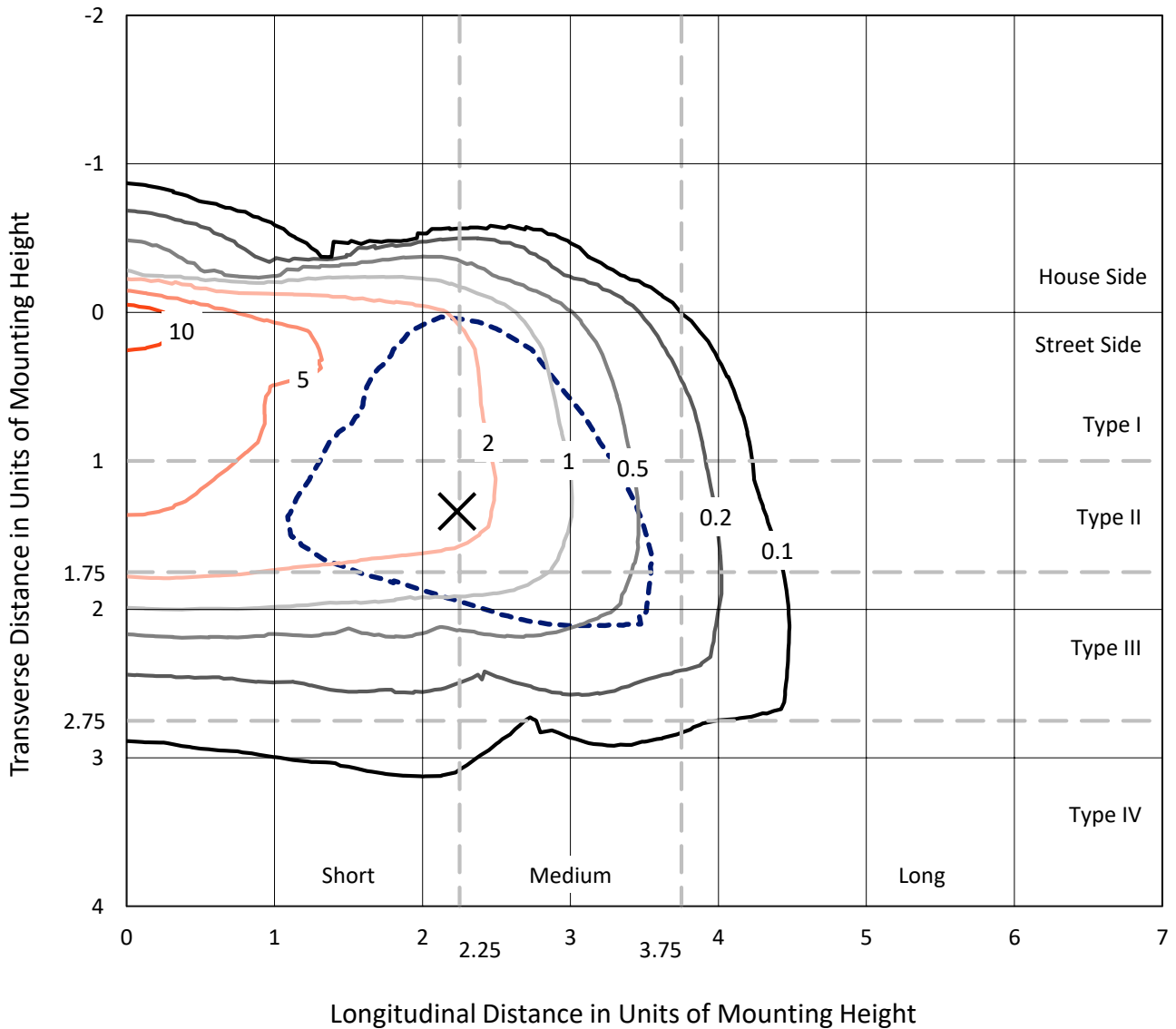


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

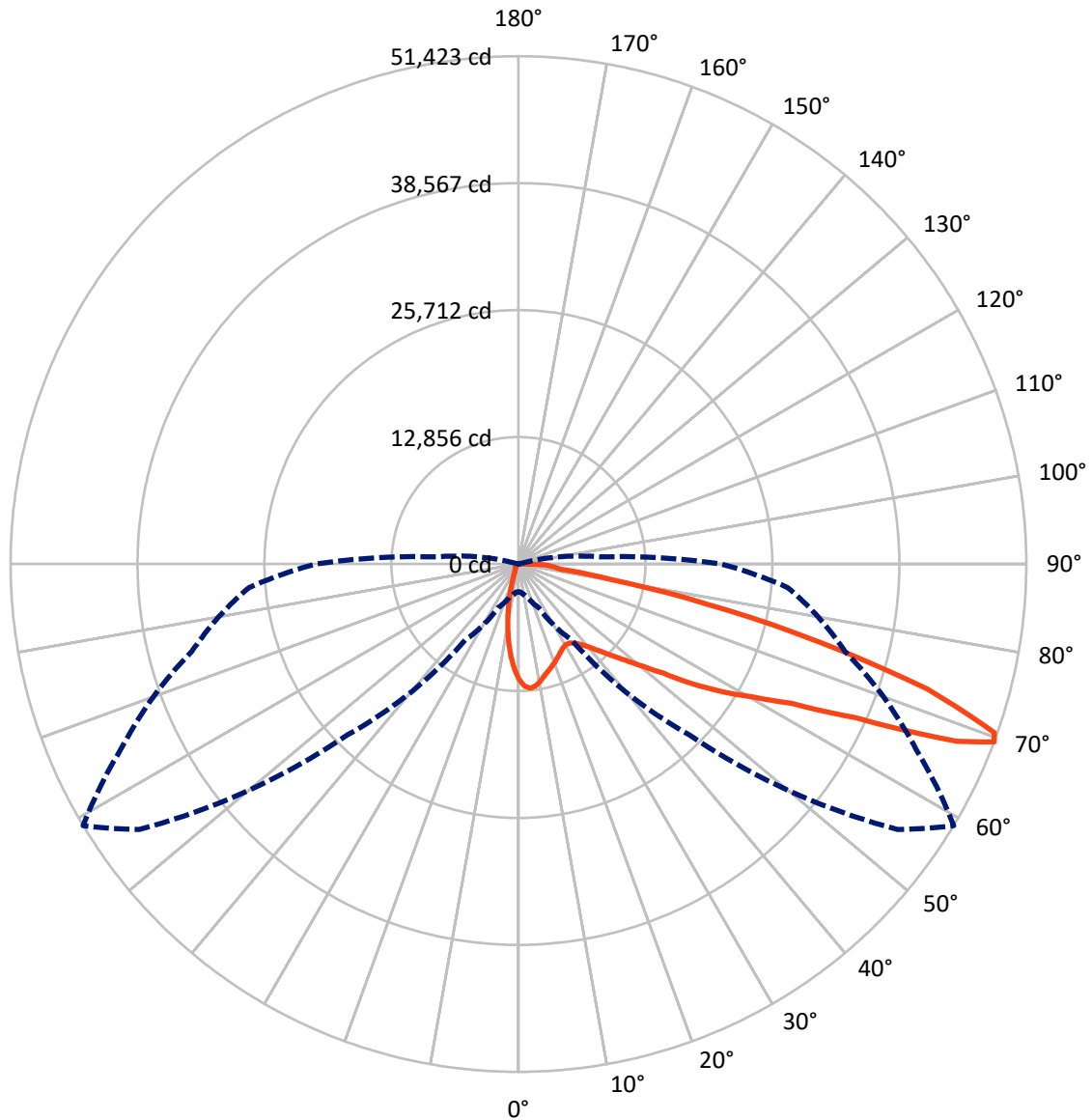


Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3669.1	0.0	3669.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	41385.9	0.0	41385.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	45055.0	0.0	45055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	951.9	2.1
10°-20°	1966.9	4.4
20°-30°	2646.7	5.9
30°-40°	3842.8	8.5
40°-50°	6398.6	14.2
50°-60°	9981.7	22.2
60°-70°	12351.6	27.4
70°-80°	6259.7	13.9
80°-90°	655.0	1.5
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°	45055.0	100.0
0°-180°	45055.0	100.0



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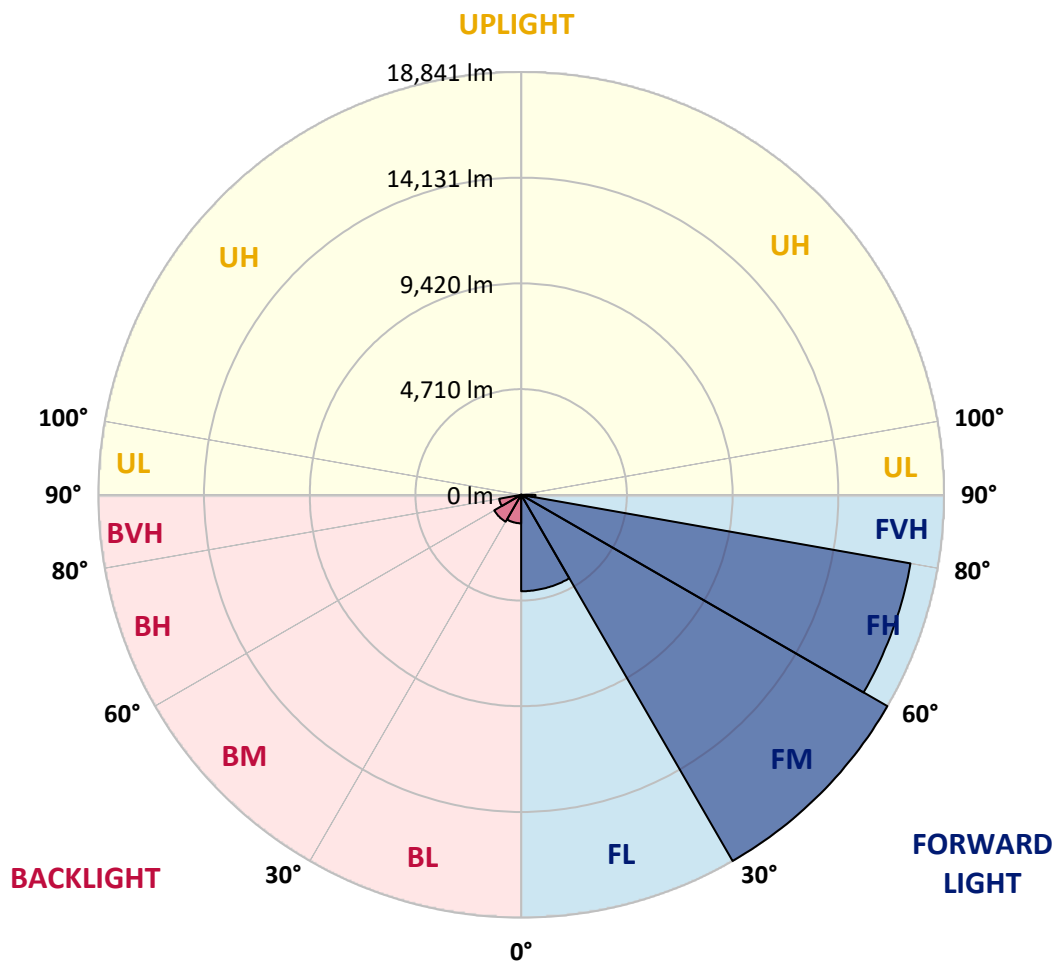
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4295.5	9.5			
FM	(30°-60°)	18840.7	41.8			
FH	(60°-80°)	17614.9	39.1			G5
FVH	(80°-90°)	634.8	1.4			G4/750
BL	(0°-30°)	1270.0	2.8	B3/2500		
BM	(30°-60°)	1382.5	3.1	B2/2500		
BH	(60°-80°)	996.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	20.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2
2.5°	12853.3	12848.2	12792.1	12766.7	12720.8	12624.0	12473.7	12394.7	12267.3	12045.7	11747.6
5°	12736.1	12797.2	12830.4	12832.9	12866.0	12830.4	12695.3	12629.1	12453.3	12096.6	11561.6
7.5°	11941.2	11964.1	12058.4	12139.9	12297.9	12448.2	12496.6	12468.6	12364.1	11982.0	11271.2
10°	11090.3	11113.2	11225.3	11332.3	11546.3	11778.1	12022.7	12073.7	12117.0	11818.9	10990.9
12.5°	10356.5	10379.4	10494.1	10634.2	10883.9	11169.2	11548.9	11632.9	11824.0	11663.5	10766.7
15°	9724.7	9734.9	9847.0	10020.2	10318.3	10685.2	11115.7	11250.8	11543.8	11553.9	10570.5
17.5°	9187.1	9212.6	9281.4	9447.0	9773.1	10226.6	10728.5	10922.1	11266.1	11462.2	10379.4
20°	8858.5	8883.9	8881.4	8973.1	9266.1	9750.2	10341.2	10573.1	10990.9	11368.0	10208.7
22.5°	8794.8	8794.8	8728.5	8715.8	8889.0	9294.1	9938.7	10221.5	10743.8	11327.2	10089.0
25°	9021.5	9011.3	8845.7	8710.7	8718.3	8960.4	9548.9	9885.2	10534.9	11355.2	10025.3
27.5°	9500.5	9487.7	9278.8	9021.5	8815.1	8812.6	9253.3	9615.1	10369.3	11487.7	10050.8
30°	10162.9	10157.8	9931.0	9607.5	9233.0	8889.0	9151.4	9480.1	10262.2	11727.2	10109.4
32.5°	10886.4	10878.8	10708.1	10366.7	9892.8	9233.0	9258.4	9533.6	10292.8	12045.7	10252.1
35°	11653.3	11640.6	11566.7	11268.6	10746.3	9867.4	9610.0	9824.0	10486.4	12522.1	10532.3
37.5°	12483.9	12496.6	12550.1	12264.8	11717.0	10756.5	10198.6	10343.8	10876.3	13169.2	10988.4
40°	13709.3	13706.8	13724.6	13350.1	12822.7	11844.4	11021.5	11067.3	11528.5	14027.8	11681.3
42.5°	15933.5	15778.1	15306.8	14542.4	14012.5	13087.7	12058.4	12010.0	12325.9	15090.2	12652.0
45°	18922.0	18590.8	17367.9	15902.9	15225.2	14488.9	13334.8	13179.4	13380.7	16366.6	13849.5
47.5°	21492.6	21148.7	19418.8	17319.5	16511.8	15818.8	14830.3	14550.1	14616.3	17795.9	15367.9
50°	22366.5	22198.4	20687.6	18552.6	17757.7	17492.7	16565.3	16223.9	16129.7	19449.4	17128.4
52.5°	22063.3	22050.6	21044.2	19352.5	18899.0	19225.2	18748.7	18353.8	18007.3	21192.0	18919.4
55°	21576.7	21640.4	21189.5	20053.2	20037.9	20807.3	21734.7	21406.0	20402.2	23085.0	20463.4
57.5°	20234.1	20506.7	21107.9	21378.0	22004.7	22792.0	24221.3	24414.9	23227.6	24534.6	21744.9
60°	16417.6	17016.3	18983.1	21569.1	24539.7	26501.5	27222.5	27388.1	25546.1	25739.7	23474.8
62.5°	11653.3	12264.8	14759.0	19133.4	24577.9	31375.3	31693.7	31044.1	28098.9	27525.7	26458.2
65°	6185.9	6657.2	8695.4	13811.2	21309.2	32506.5	39512.7	37576.4	32603.3	31039.0	30312.9
67.5°	3164.3	3307.0	4117.1	6759.1	14649.4	28873.4	46521.5	47884.6	40366.2	34524.3	30126.9
69°	2800.0	2884.0	3421.6	4886.5	9380.7	24455.6	46862.9	51423.3	44429.8	34233.8	27377.9
70°	2710.8	2784.7	3273.8	4422.9	7332.4	20509.2	45555.9	51112.5	45469.3	33128.1	25324.4
72.5°	2300.6	2364.3	2914.6	3908.2	5959.1	10180.7	37005.8	43311.4	40801.9	27597.0	18330.9
75°	1538.8	1747.7	2797.4	3663.6	5543.9	5783.3	24397.0	31298.8	29074.7	18613.7	9548.9
77.5°	369.4	397.4	789.8	2914.6	5070.0	5090.4	12547.6	19457.0	15869.8	6634.3	2257.3
80°	198.7	191.1	221.7	578.3	4720.9	4777.0	5648.3	9444.4	5666.1	1100.6	743.9
82.5°	140.1	132.5	142.7	242.0	1485.3	4351.5	4086.6	4275.1	2349.0	422.9	333.8
85°	51.0	48.4	79.0	219.1	466.2	2501.9	4198.7	3526.1	1903.2	193.6	244.6
87.5°	17.8	15.3	30.6	119.7	142.7	1065.0	2591.0	2664.9	749.0	117.2	114.6
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°	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2	11727.2
2.5°	11622.7	11464.8	11174.3	10876.3	10601.1	10269.9	10104.3	9941.2	9872.4	9847.0	9727.2
5°	11286.4	11018.9	10402.4	9783.3	9212.6	8606.2	8206.2	7885.2	7696.7	7605.0	7459.7
7.5°	10855.9	10417.7	9482.6	8527.2	7638.1	6761.7	6112.0	5612.6	5268.7	5103.1	4952.8
10°	10438.0	9854.6	8524.7	7222.8	6015.2	4853.4	3956.6	3307.0	2891.7	2700.6	2578.3
12.5°	10063.5	9306.9	7599.9	5951.5	4435.6	3075.1	2163.0	1645.8	1388.5	1299.3	1256.0
15°	9729.8	8802.4	6726.0	4743.9	3003.8	1757.9	1182.1	1006.4	965.6	965.6	960.5
17.5°	9413.9	8308.1	5882.7	3610.1	1885.3	1075.1	899.3	876.4	876.4	886.6	886.6
20°	9110.7	7836.8	5067.4	2591.0	1187.2	853.5	812.7	807.6	812.7	825.5	825.5
22.5°	8850.8	7408.8	4305.7	1778.3	881.5	769.4	749.0	741.4	743.9	751.6	756.7
25°	8657.2	7047.0	3587.2	1205.1	759.2	700.6	677.7	665.0	654.8	654.8	659.9
27.5°	8534.9	6741.3	2891.7	876.4	682.8	636.9	601.3	580.9	558.0	545.2	550.3
30°	8445.7	6450.8	2239.5	715.9	611.5	565.6	519.7	486.6	453.5	438.2	443.3
32.5°	8412.6	6216.5	1673.9	631.8	547.8	496.8	440.8	397.4	361.8	349.0	351.6
35°	8501.8	6030.5	1225.5	570.7	496.8	433.1	369.4	321.0	293.0	285.3	287.9
37.5°	8736.2	5931.1	917.2	519.7	450.9	379.6	308.3	262.4	244.6	244.6	247.1
40°	9179.5	5928.6	736.3	484.1	410.2	328.7	254.8	221.7	211.5	216.6	219.1
42.5°	9826.6	6063.6	642.0	450.9	374.5	280.3	211.5	188.5	186.0	191.1	193.6
45°	10710.6	6310.7	591.1	422.9	336.3	234.4	178.3	163.1	163.1	170.7	173.2
47.5°	11793.4	6672.5	547.8	394.9	298.1	196.2	152.9	142.7	145.2	152.9	155.4
50°	13097.9	7128.5	504.5	364.3	270.1	163.1	132.5	124.8	127.4	137.6	140.1
52.5°	14583.2	7742.5	468.8	336.3	234.4	135.0	112.1	107.0	112.1	122.3	124.8
55°	15857.1	8292.9	425.5	313.4	188.5	112.1	91.7	91.7	96.8	109.6	112.1
57.5°	17082.5	8868.6	387.3	270.1	147.8	89.2	76.4	79.0	86.6	99.4	101.9
60°	18881.2	9844.4	341.4	226.7	112.1	71.3	63.7	66.2	76.4	89.2	91.7
62.5°	21935.9	11329.7	295.5	188.5	86.6	56.1	51.0	56.1	68.8	84.1	86.6
65°	24692.6	11933.6	242.0	158.0	66.2	43.3	43.3	51.0	66.2	81.5	84.1
67.5°	23156.3	10045.7	188.5	124.8	51.0	33.1	35.7	48.4	63.7	81.5	84.1
69°	20478.6	8213.9	160.5	99.4	43.3	30.6	33.1	48.4	63.7	79.0	81.5
70°	18392.1	6934.9	142.7	84.1	38.2	30.6	33.1	45.9	63.7	79.0	81.5
72.5°	12318.3	3745.2	114.6	61.1	35.7	28.0	28.0	45.9	61.1	76.4	79.0
75°	5294.2	1034.4	91.7	43.3	30.6	25.5	25.5	43.3	58.6	73.9	79.0
77.5°	968.1	262.4	73.9	38.2	30.6	25.5	22.9	40.8	56.1	71.3	73.9
80°	384.7	129.9	58.6	33.1	28.0	22.9	20.4	38.2	53.5	68.8	71.3
82.5°	231.8	73.9	48.4	30.6	28.0	20.4	17.8	33.1	51.0	66.2	68.8
85°	188.5	51.0	38.2	30.6	25.5	20.4	15.3	30.6	45.9	63.7	66.2
87.5°	91.7	35.7	35.7	28.0	25.5	20.4	15.3	28.0	43.3	61.1	63.7
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)