

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: P193687

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193687
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-09-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 40695 lumens
Efficiency: N/A
Efficacy: 70.8 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): 575
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

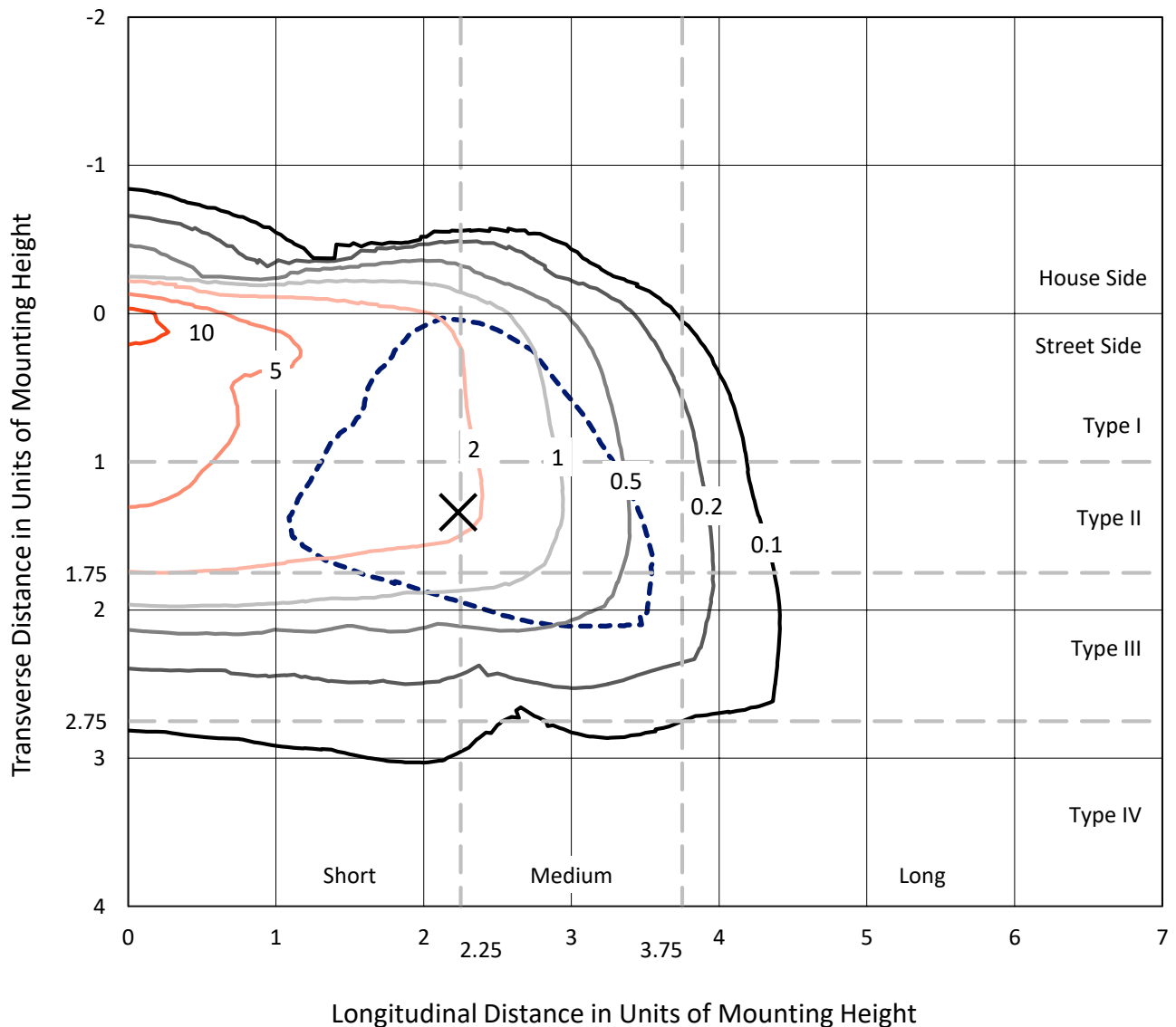


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

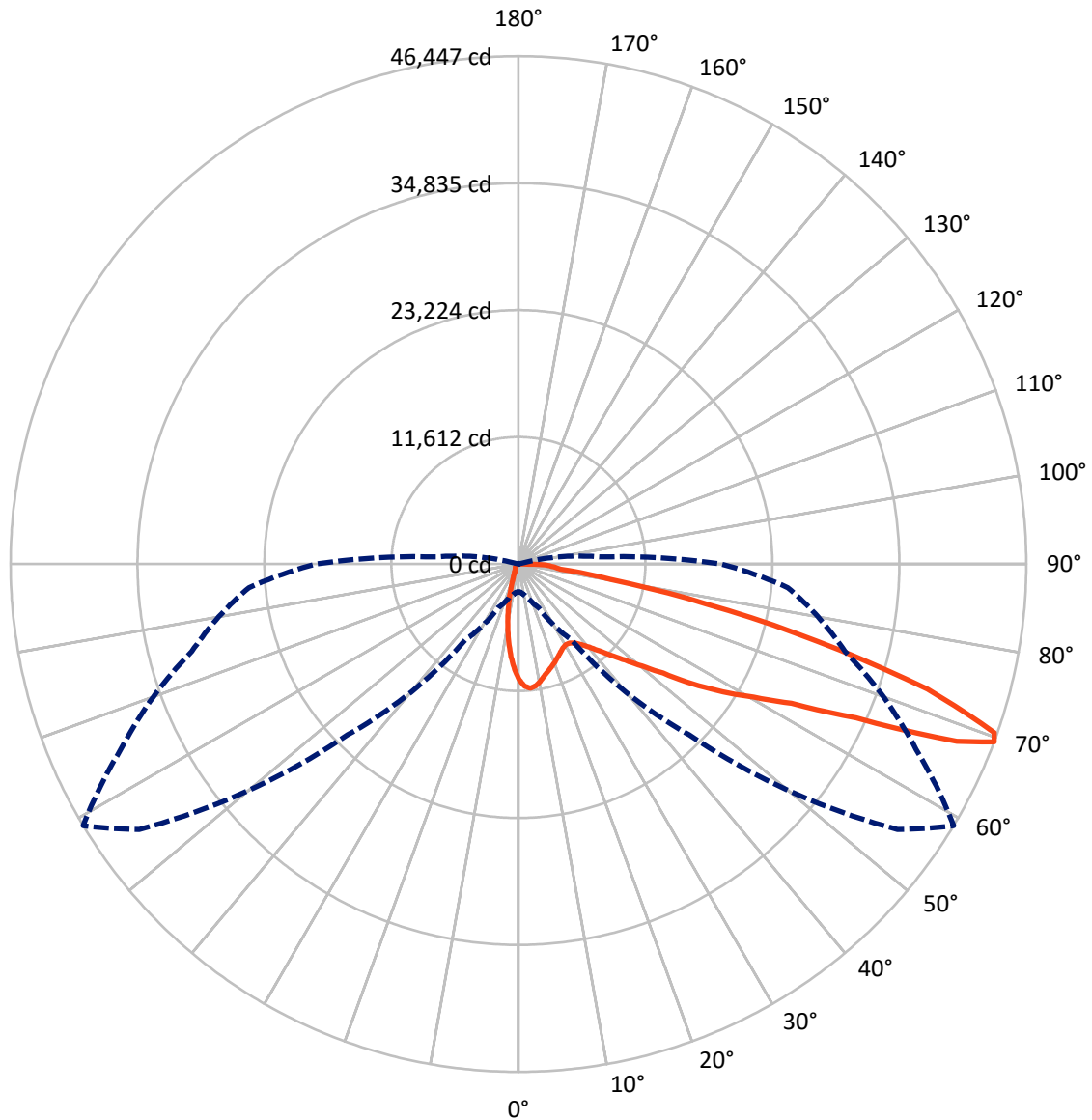


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - Non-Cutoff

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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	3314.0	0.0	3314.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	37380.9	0.0	37380.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	40695.0	0.0	40695.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.8	2.1
10°-20°	1776.5	4.4
20°-30°	2390.6	5.9
30°-40°	3471.0	8.5
40°-50°	5779.4	14.2
50°-60°	9015.8	22.2
60°-70°	11156.4	27.4
70°-80°	5653.9	13.9
80°-90°	591.6	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°	40695.0	100.0
0°-180°	40695.0	100.0



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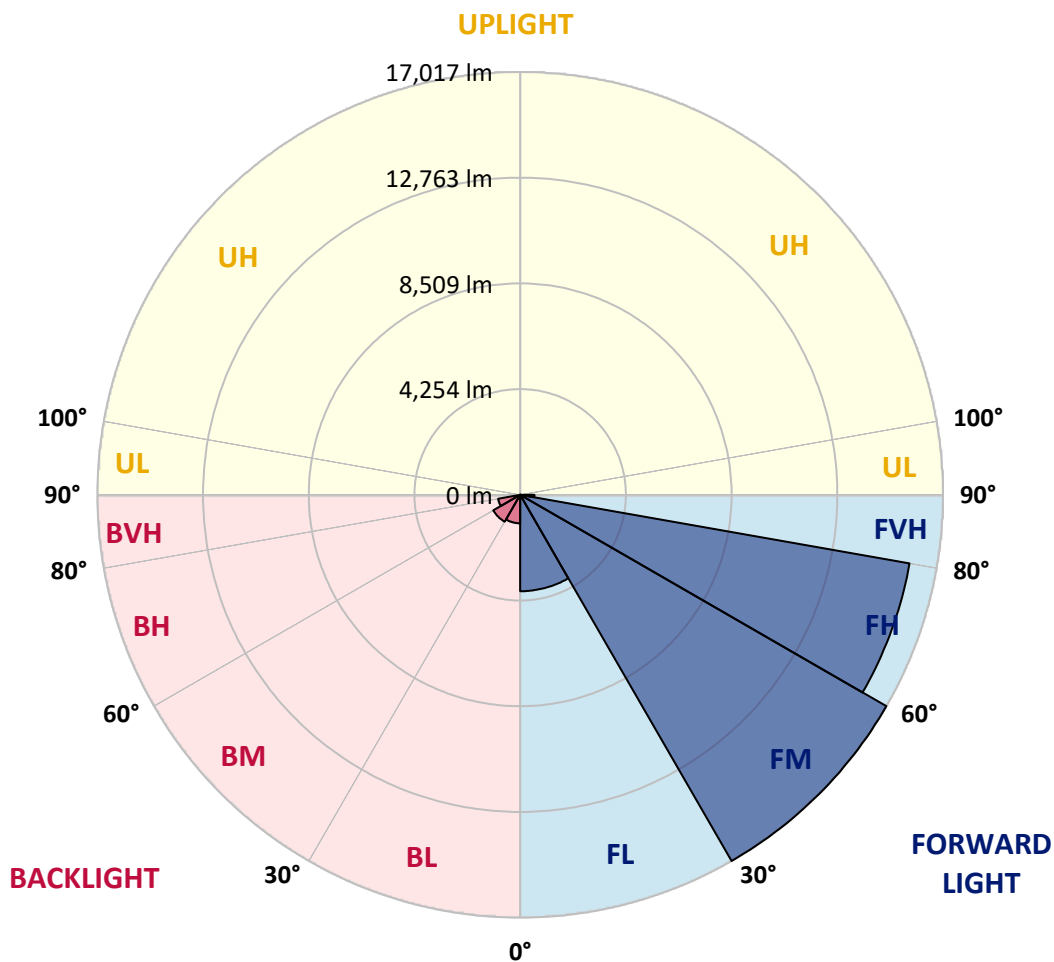
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3879.8	9.5			
FM (30°-60°)	17017.5	41.8			
FH (60°-80°)	15910.3	39.1			G5
FVH (80°-90°)	573.4	1.4			G4/750
BL (0°-30°)	1147.1	2.8	B3/2500		
BM (30°-60°)	1248.7	3.1	B2/2500		
BH (60°-80°)	900.0	2.2	B2/1000		G2/1000
BVH (80°-90°)	18.2	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°	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3
2.5°	11609.5	11604.9	11554.2	11531.2	11489.8	11402.4	11266.6	11195.3	11080.2	10880.0	10610.8
5°	11503.6	11558.8	11588.8	11591.1	11621.0	11588.8	11466.8	11407.0	11248.2	10926.0	10442.8
7.5°	10785.6	10806.4	10891.5	10965.1	11107.8	11243.6	11287.3	11262.0	11167.6	10822.5	10180.4
10°	10017.1	10037.8	10139.0	10235.7	10429.0	10638.4	10859.3	10905.3	10944.4	10675.2	9927.3
12.5°	9354.3	9375.0	9478.6	9605.1	9830.7	10088.4	10431.3	10507.2	10679.8	10534.8	9724.8
15°	8783.6	8792.8	8894.1	9050.6	9319.8	9651.2	10040.1	10162.0	10426.7	10435.9	9547.6
17.5°	8298.1	8321.1	8383.2	8532.8	8827.3	9236.9	9690.3	9865.2	10175.8	10353.0	9375.0
20°	8001.2	8024.2	8021.9	8104.8	8369.4	8806.6	9340.5	9549.9	9927.3	10267.9	9220.8
22.5°	7943.7	7943.7	7883.9	7872.3	8028.8	8394.7	8976.9	9232.3	9704.1	10231.1	9112.7
25°	8148.5	8139.3	7989.7	7867.7	7874.6	8093.3	8624.8	8928.6	9515.4	10256.4	9055.2
27.5°	8581.1	8569.6	8380.9	8148.5	7962.1	7959.8	8357.9	8684.7	9365.8	10376.0	9078.2
30°	9179.4	9174.8	8970.0	8677.8	8339.5	8028.8	8265.8	8562.7	9269.2	10592.3	9131.1
32.5°	9833.0	9826.1	9671.9	9363.5	8935.5	8339.5	8362.5	8611.0	9296.8	10880.0	9260.0
35°	10525.6	10514.1	10447.4	10178.1	9706.4	8912.5	8680.1	8873.4	9471.7	11310.3	9513.1
37.5°	11275.8	11287.3	11335.6	11077.9	10583.1	9715.6	9211.6	9342.8	9823.8	11894.8	9925.0
40°	12382.7	12380.4	12396.5	12058.2	11581.9	10698.2	9954.9	9996.3	10412.9	12670.3	10550.9
42.5°	14391.6	14251.2	13825.5	13135.2	12656.5	11821.2	10891.5	10847.8	11133.1	13629.9	11427.7
45°	17090.9	16791.7	15687.2	14364.0	13751.9	13086.8	12044.4	11904.0	12085.8	14782.8	12509.2
47.5°	19412.8	19102.1	17539.6	15643.4	14914.0	14288.0	13395.2	13142.1	13201.9	16073.8	13880.7
50°	20202.1	20050.2	18685.6	16757.2	16039.2	15799.9	14962.3	14653.9	14568.8	17567.2	15470.9
52.5°	19928.2	19916.7	19007.8	17479.8	17070.2	17364.7	16934.4	16577.7	16264.8	19141.2	17088.6
55°	19488.7	19546.2	19138.9	18112.6	18098.8	18793.8	19631.4	19334.5	18427.9	20851.0	18483.1
57.5°	18276.0	18522.2	19065.3	19309.2	19875.3	20586.4	21877.3	22052.2	20979.9	22160.4	19640.6
60°	14828.8	15369.6	17146.1	19481.8	22165.0	23936.9	24588.1	24737.7	23074.0	23248.9	21203.1
62.5°	10525.6	11077.9	13330.8	17281.9	22199.5	28339.1	28626.7	28039.9	25379.7	24862.0	23897.8
65°	5587.3	6013.0	7853.9	12474.7	19247.1	29360.8	35689.0	33940.1	29448.2	28035.3	27379.5
67.5°	2858.1	2986.9	3718.7	6105.0	13231.8	26079.3	42019.6	43250.7	36459.9	31183.3	27211.5
69°	2529.0	2604.9	3090.5	4413.7	8473.0	22089.1	42328.0	46447.1	40130.3	30921.0	24728.5
70°	2448.5	2515.2	2957.0	3994.9	6622.8	18524.5	41147.5	46166.3	41069.2	29922.3	22873.8
72.5°	2078.0	2135.5	2632.6	3530.0	5382.5	9195.5	33424.7	39120.1	36853.4	24926.4	16557.0
75°	1389.9	1578.6	2526.7	3309.1	5007.4	5223.7	22036.1	28270.0	26261.1	16812.4	8624.8
77.5°	333.7	359.0	713.4	2632.6	4579.4	4597.8	11333.3	17574.1	14334.1	5992.3	2038.8
80°	179.5	172.6	200.2	522.4	4264.1	4314.7	5101.7	8530.5	5117.8	994.1	671.9
82.5°	126.6	119.7	128.9	218.6	1341.6	3930.4	3691.1	3861.4	2121.7	382.0	301.5
85°	46.0	43.7	71.3	197.9	421.1	2259.8	3792.3	3184.8	1719.0	174.9	220.9
87.5°	16.1	13.8	27.6	108.2	128.9	961.9	2340.3	2407.0	676.5	105.9	103.6
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°	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3	10592.3
2.5°	10498.0	10355.3	10093.0	9823.8	9575.2	9276.1	9126.5	8979.2	8917.1	8894.1	8785.9
5°	10194.2	9952.6	9395.7	8836.5	8321.1	7773.4	7412.1	7122.2	6951.9	6869.0	6737.9
7.5°	9805.3	9409.5	8565.0	7702.1	6898.9	6107.3	5520.5	5069.5	4758.8	4609.3	4473.5
10°	9427.9	8901.0	7699.8	6523.9	5433.1	4383.8	3573.7	2986.9	2611.8	2439.3	2328.8
12.5°	9089.7	8406.2	6864.4	5375.6	4006.4	2777.5	1953.7	1486.6	1254.1	1173.6	1134.5
15°	8788.2	7950.6	6075.1	4284.8	2713.1	1587.8	1067.7	909.0	872.1	872.1	867.5
17.5°	8502.9	7504.2	5313.4	3260.8	1702.9	971.1	812.3	791.6	791.6	800.8	800.8
20°	8229.0	7078.4	4577.1	2340.3	1072.4	770.9	734.1	729.5	734.1	745.6	745.6
22.5°	7994.3	6691.8	3889.0	1606.2	796.2	695.0	676.5	669.6	671.9	678.8	683.5
25°	7819.4	6365.1	3240.1	1088.5	685.8	632.8	612.1	600.6	591.4	591.4	596.0
27.5°	7709.0	6088.9	2611.8	791.6	616.7	575.3	543.1	524.7	504.0	492.5	497.1
30°	7628.4	5826.6	2022.7	646.6	552.3	510.9	469.4	439.5	409.6	395.8	400.4
32.5°	7598.5	5614.9	1511.9	570.7	494.8	448.7	398.1	359.0	326.8	315.3	317.6
35°	7679.0	5446.9	1106.9	515.5	448.7	391.2	333.7	289.9	264.6	257.7	260.0
37.5°	7890.8	5357.2	828.4	469.4	407.3	342.9	278.4	237.0	220.9	220.9	223.2
40°	8291.2	5354.9	665.0	437.2	370.5	296.9	230.1	200.2	191.0	195.6	197.9
42.5°	8875.7	5476.8	579.9	407.3	338.3	253.1	191.0	170.3	168.0	172.6	174.9
45°	9674.2	5700.0	533.9	382.0	303.8	211.7	161.1	147.3	147.3	154.2	156.5
47.5°	10652.2	6026.8	494.8	356.7	269.2	177.2	138.1	128.9	131.2	138.1	140.4
50°	11830.4	6438.7	455.6	329.1	243.9	147.3	119.7	112.8	115.1	124.3	126.6
52.5°	13172.0	6993.3	423.4	303.8	211.7	122.0	101.3	96.6	101.3	110.5	112.8
55°	14322.6	7490.4	384.3	283.0	170.3	101.3	82.8	82.8	87.4	99.0	101.3
57.5°	15429.4	8010.4	349.8	243.9	133.5	80.5	69.0	71.3	78.2	89.7	92.0
60°	17054.1	8891.8	308.4	204.8	101.3	64.4	57.5	59.8	69.0	80.5	82.8
62.5°	19813.2	10233.4	266.9	170.3	78.2	50.6	46.0	50.6	62.1	75.9	78.2
65°	22303.1	10778.7	218.6	142.7	59.8	39.1	39.1	46.0	59.8	73.6	75.9
67.5°	20915.5	9073.6	170.3	112.8	46.0	29.9	32.2	43.7	57.5	73.6	75.9
69°	18496.9	7419.0	145.0	89.7	39.1	27.6	29.9	43.7	57.5	71.3	73.6
70°	16612.2	6263.8	128.9	75.9	34.5	27.6	29.9	41.4	57.5	71.3	73.6
72.5°	11126.2	3382.7	103.6	55.2	32.2	25.3	25.3	41.4	55.2	69.0	71.3
75°	4781.9	934.3	82.8	39.1	27.6	23.0	23.0	39.1	52.9	66.7	71.3
77.5°	874.4	237.0	66.7	34.5	27.6	23.0	20.7	36.8	50.6	64.4	66.7
80°	347.5	117.4	52.9	29.9	25.3	20.7	18.4	34.5	48.3	62.1	64.4
82.5°	209.4	66.7	43.7	27.6	25.3	18.4	16.1	29.9	46.0	59.8	62.1
85°	170.3	46.0	34.5	27.6	23.0	18.4	13.8	27.6	41.4	57.5	59.8
87.5°	82.8	32.2	32.2	25.3	23.0	18.4	13.8	25.3	39.1	55.2	57.5
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)