

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: P192678

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46646 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 558
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



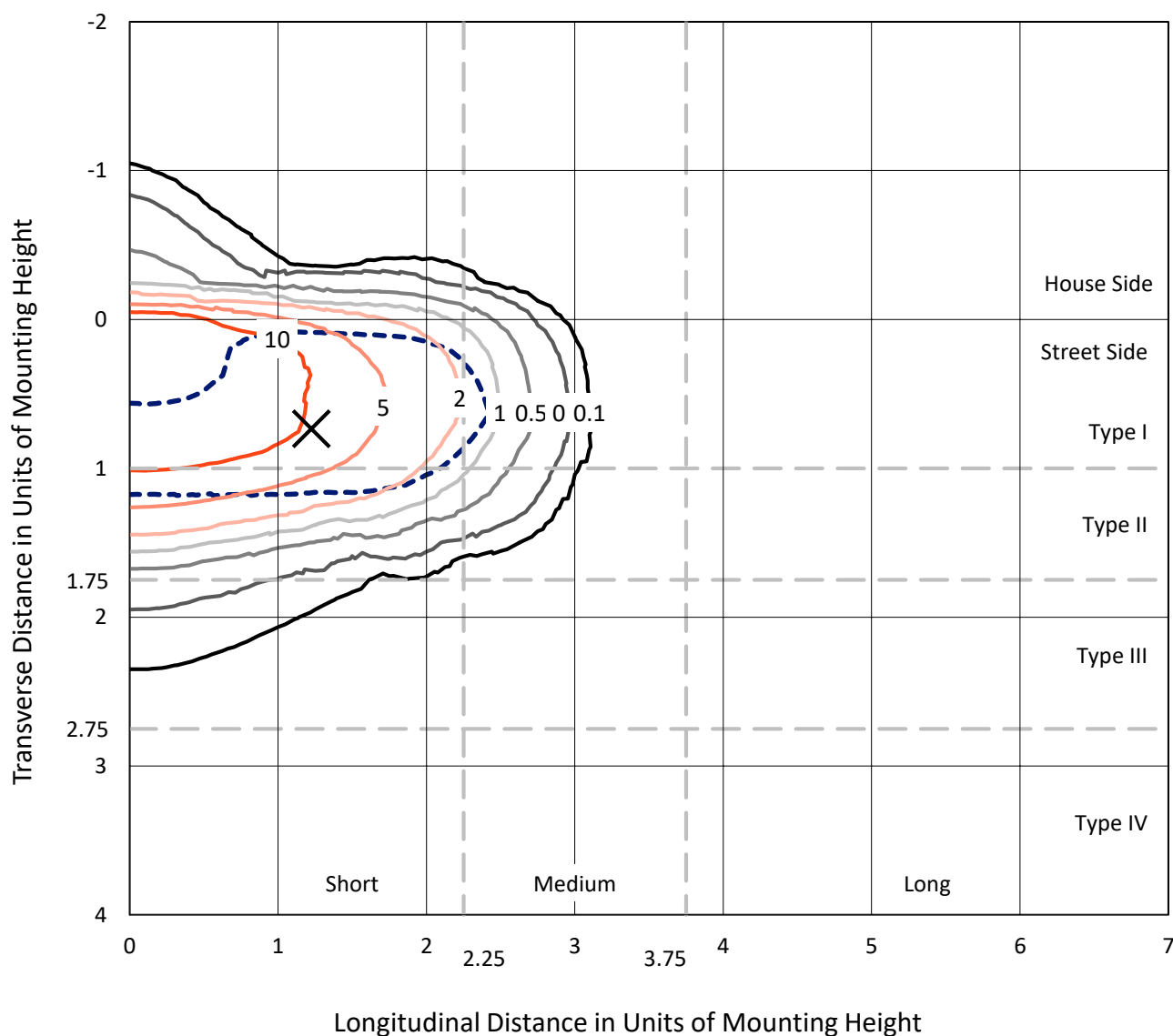
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

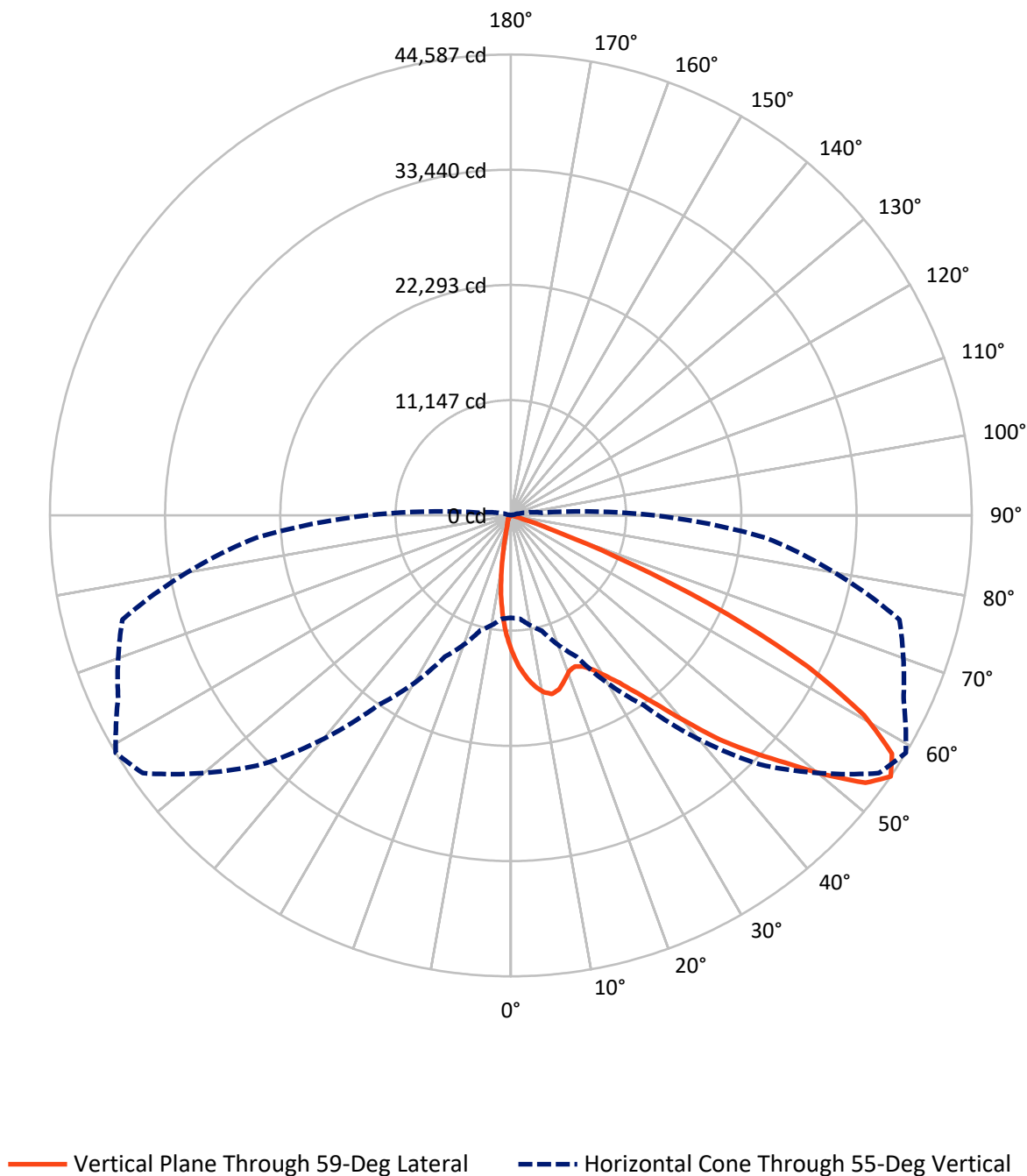


Based on 30 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.4	0.0	2605.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	44040.6	0.0	44040.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	46646.0	0.0	46646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1099.8	2.4
10°-20°	2633.3	5.6
20°-30°	4480.9	9.6
30°-40°	7706.1	16.5
40°-50°	11897.4	25.5
50°-60°	11960.7	25.6
60°-70°	6133.5	13.1
70°-80°	664.7	1.4
80°-90°	69.5	0.1
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°	46646.0	100.0
0°-180°	46646.0	100.0

Coefficient of Utilization



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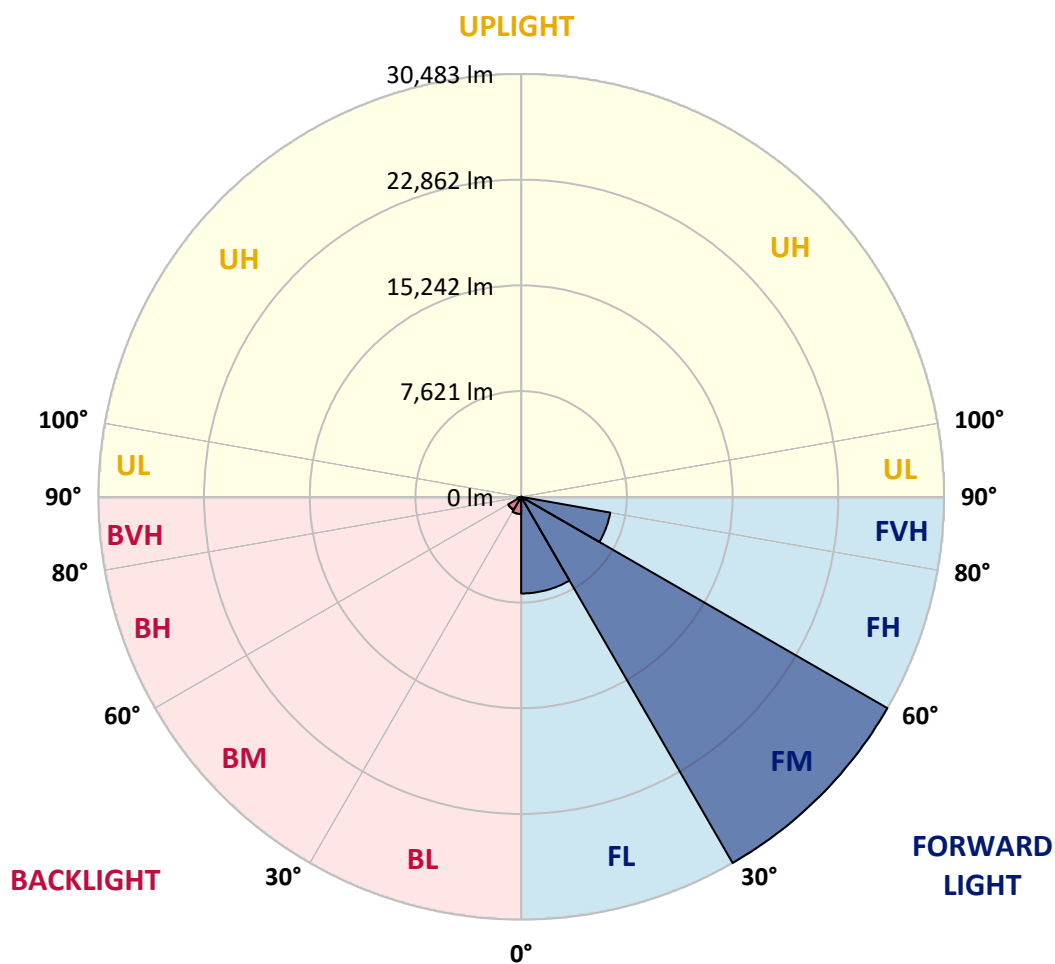
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6970.5	14.9			
FM	(30°-60°)	30483.0	65.3			
FH	(60°-80°)	6519.1	14.0			G3/7500
FVH	(80°-90°)	68.0	0.1			G1/100
BL	(0°-30°)	1243.6	2.7	B3/2500		
BM	(30°-60°)	1081.3	2.3	B2/2500		
BH	(60°-80°)	279.1	0.6	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7
2.5°	15536.6	15371.4	15321.9	15288.8	15137.5	14947.5	14688.9	14567.6	14319.8	13920.7	13430.7
5°	16959.8	16929.5	16819.4	16758.8	16596.5	16326.6	15913.7	15715.6	15321.9	14650.2	13772.1
7.5°	16337.6	16527.6	16679.0	16932.2	17251.6	17240.6	16893.7	16687.2	16246.9	15360.4	14152.1
10°	13934.5	14088.7	14336.5	14911.7	16084.4	17119.5	17526.9	17378.2	17025.9	16012.8	14518.1
12.5°	13463.8	13447.3	13491.4	13659.3	14273.1	15748.6	17419.5	17719.5	17648.0	16610.1	14864.9
15°	13714.3	13695.0	13689.5	13747.3	13895.9	14518.1	16613.0	17474.6	18027.9	17163.5	15159.5
17.5°	14416.2	14333.6	14289.6	14242.8	14198.8	14353.0	15644.0	16789.1	18085.6	17648.0	15404.5
20°	15619.1	15481.6	15319.1	15054.9	14807.2	14730.0	15236.5	16084.4	17879.1	18016.9	15564.1
22.5°	17130.4	16954.3	16673.5	16191.7	15688.0	15396.3	15437.6	15861.5	17570.8	18418.7	15638.5
25°	18828.9	18603.2	18228.9	17559.9	16819.4	16301.9	16032.1	16180.7	17430.5	18889.5	15723.8
27.5°	20648.5	20398.0	19908.0	18996.8	18157.2	17458.0	16907.6	16888.2	17670.0	19506.0	15861.5
30°	22451.5	22413.0	21774.4	20810.9	19698.8	18848.2	18055.4	17953.6	18338.9	20359.5	16134.0
32.5°	24857.5	24568.5	23786.7	22795.7	21512.8	20491.6	19552.9	19316.2	19365.7	21353.2	16555.2
35°	27891.0	27574.5	26473.4	25105.3	23671.0	22465.4	21427.5	21105.5	20984.4	22980.1	17265.3
37.5°	29851.0	29845.5	29154.5	27761.6	26222.9	24893.3	23764.7	23387.5	23142.5	24945.5	18366.5
40°	29903.2	30032.6	30123.6	30109.7	29014.2	27789.2	26787.2	26321.9	25752.1	27571.7	19789.7
42.5°	28298.4	28631.5	29432.6	30792.4	31442.1	30954.9	30109.7	29652.9	28805.0	30382.3	21523.8
45°	26129.3	26360.6	27761.6	30266.7	32757.9	34093.0	33448.8	32631.3	31513.6	33314.0	23079.2
47.5°	25157.5	25198.8	26104.4	28854.5	32857.0	36664.1	37055.0	35725.4	33974.6	35675.9	24295.9
50°	22253.4	22327.6	23577.5	26407.3	31695.3	37878.1	40677.7	39416.9	36658.5	37495.5	24739.1
52.5°	16772.6	16877.2	18462.8	22385.5	28502.1	37360.5	43270.7	42965.2	39598.5	38384.5	24763.9
55°	9896.1	10033.9	11547.8	15068.6	22418.6	34068.2	43463.5	44586.5	41919.2	38910.4	24725.4
57.5°	4621.8	4718.3	5585.4	7762.8	13942.8	26924.8	40562.1	43474.5	43199.2	39188.3	24997.9
60°	2455.5	2483.0	2692.2	3361.2	6301.1	17072.7	34899.6	39257.2	42032.0	39573.8	25331.0
62.5°	1877.4	1885.6	1874.7	1954.4	2648.1	7578.3	26379.8	32273.4	37333.1	39284.7	24962.1
65°	1626.9	1640.6	1563.6	1544.3	1698.4	2703.2	15671.5	23004.9	29336.2	35384.0	22448.9
67.5°	1458.9	1464.5	1370.8	1291.0	1318.5	1461.7	6182.8	12593.9	19418.0	25936.6	16271.7
70°	1343.4	1337.9	1235.9	1109.4	1073.6	999.2	1965.5	4616.4	9279.6	13152.7	7567.4
72.5°	1189.2	1191.9	1142.5	977.3	891.9	699.1	911.1	1346.1	2769.2	3584.1	1772.7
75°	1054.4	1040.5	979.9	875.3	735.0	459.8	451.5	600.1	853.4	847.9	382.6
77.5°	762.5	748.8	768.0	718.5	564.4	297.3	225.7	289.0	346.9	335.9	107.4
80°	558.9	550.5	495.5	597.3	498.2	203.7	140.4	154.2	178.9	151.5	33.0
82.5°	382.6	379.9	349.6	330.3	283.5	123.9	88.1	96.3	115.6	85.3	16.5
85°	60.5	68.9	253.3	200.9	167.9	55.0	60.5	66.1	77.0	46.8	5.5
87.5°	0.0	0.0	118.3	104.6	33.0	22.1	35.8	38.6	38.6	24.8	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7	13130.7
2.5°	13180.3	12904.9	12395.7	11869.9	11382.7	10801.8	10402.7	10102.6	9755.8	9662.3	9865.9
5°	13271.0	12750.8	11655.2	10463.2	9342.9	8101.3	7151.7	6400.2	5720.3	5488.9	5698.2
7.5°	13414.2	12640.7	10854.2	8891.4	6942.5	5004.5	3677.6	2805.1	2249.0	2083.8	2172.0
10°	13557.3	12481.0	9926.4	7030.7	4365.9	2436.2	1585.6	1266.4	1147.9	1123.0	1136.9
12.5°	13675.8	12266.3	8795.1	4999.0	2334.4	1304.8	1037.8	985.5	969.0	969.0	974.5
15°	13747.3	11941.5	7454.5	3179.5	1343.4	985.5	905.6	889.2	889.2	891.9	897.4
17.5°	13739.1	11528.6	5987.3	1924.2	1004.7	872.7	825.8	812.1	809.3	814.8	817.6
20°	13637.2	10989.1	4514.5	1269.0	875.3	795.5	748.8	724.0	721.2	726.7	732.2
22.5°	13444.5	10323.0	3229.0	977.3	790.1	721.2	663.4	641.4	641.4	647.0	652.4
25°	13210.5	9508.1	2207.7	828.6	712.9	641.4	586.2	567.0	572.6	586.2	589.1
27.5°	12918.7	8591.4	1500.2	710.1	619.4	561.6	520.3	506.5	520.3	539.5	545.1
30°	12668.3	7636.1	1070.8	613.8	525.7	484.4	459.8	459.8	479.0	514.7	523.1
32.5°	12475.6	6711.2	825.8	542.3	456.9	421.2	407.4	421.2	451.5	487.2	495.5
35°	12450.7	5948.7	699.1	484.4	407.4	371.6	366.1	390.9	421.2	448.7	454.2
37.5°	12640.7	5244.0	630.4	437.7	363.4	330.3	324.8	355.1	385.3	418.5	426.6
40°	13001.3	4690.7	580.8	393.7	327.6	291.8	280.8	302.7	344.0	388.1	399.2
42.5°	13469.3	4233.8	525.7	349.6	291.8	242.2	228.5	253.3	297.3	344.0	357.9
45°	13915.3	3840.1	465.2	300.0	245.0	187.2	181.7	214.7	236.8	283.5	294.6
47.5°	14160.2	3493.2	412.9	245.0	189.9	151.5	151.5	159.6	181.7	236.8	247.8
50°	14077.6	3215.3	357.9	181.7	132.1	115.6	115.6	112.9	145.9	189.9	198.2
52.5°	13912.5	3055.6	308.3	140.4	90.8	82.6	74.3	82.6	101.8	121.2	123.9
55°	13887.7	3028.0	258.7	112.9	63.3	55.0	41.3	41.3	41.3	38.6	33.0
57.5°	14080.4	3072.1	217.4	90.8	46.8	35.8	22.1	0.0	0.0	0.0	0.0
60°	14278.5	3119.0	187.2	63.3	33.0	19.2	2.7	0.0	0.0	0.0	0.0
62.5°	13948.2	3014.3	156.9	38.6	24.8	8.3	0.0	0.0	0.0	0.0	0.0
65°	12252.6	2565.6	123.9	27.6	16.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8715.3	1717.8	82.6	16.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	3977.8	718.5	52.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	850.6	223.0	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	173.4	162.4	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	55.0	256.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.0	184.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)