

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: P193457

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193457
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-09-LED-E1-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 23421 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 290
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

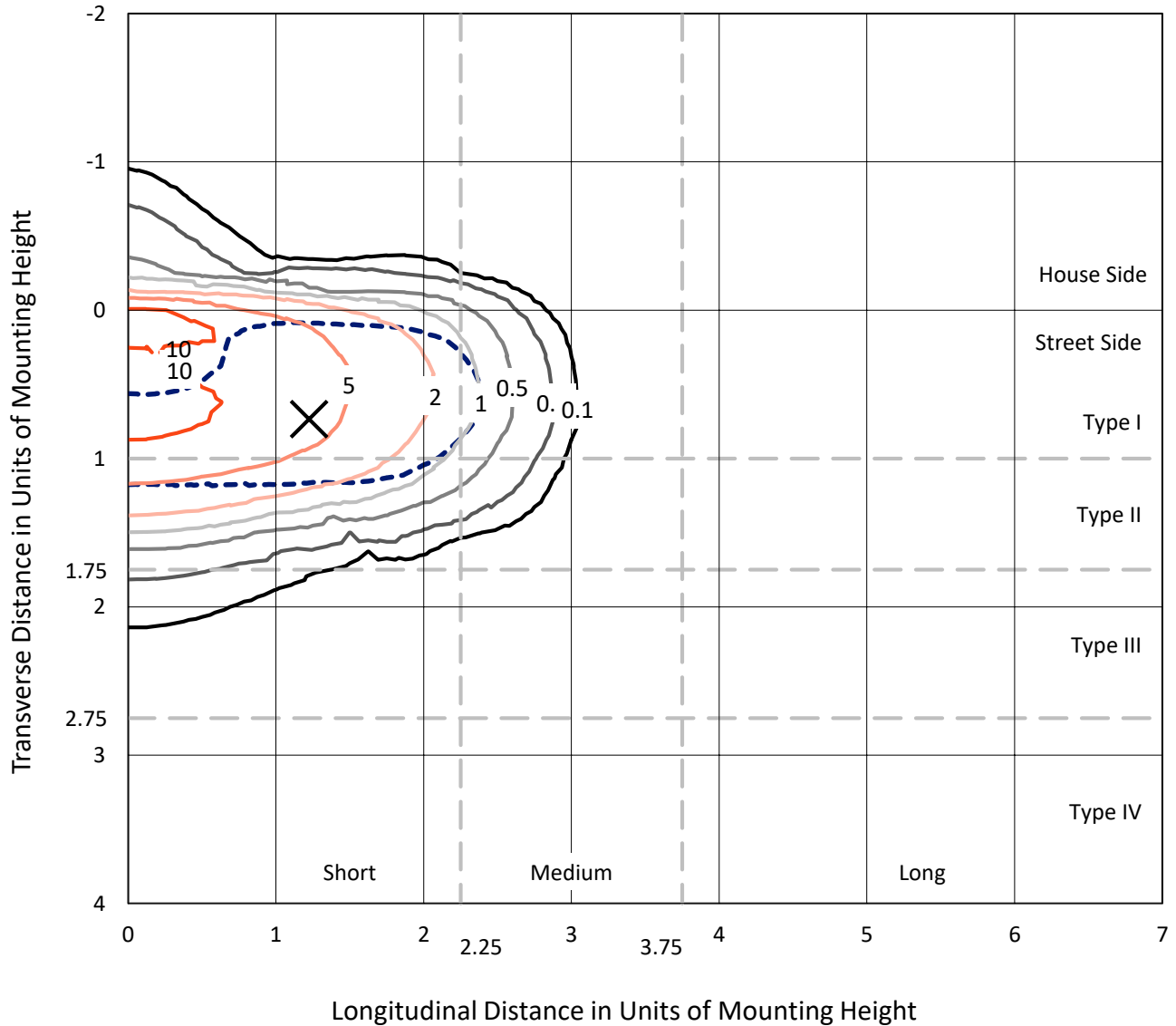


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

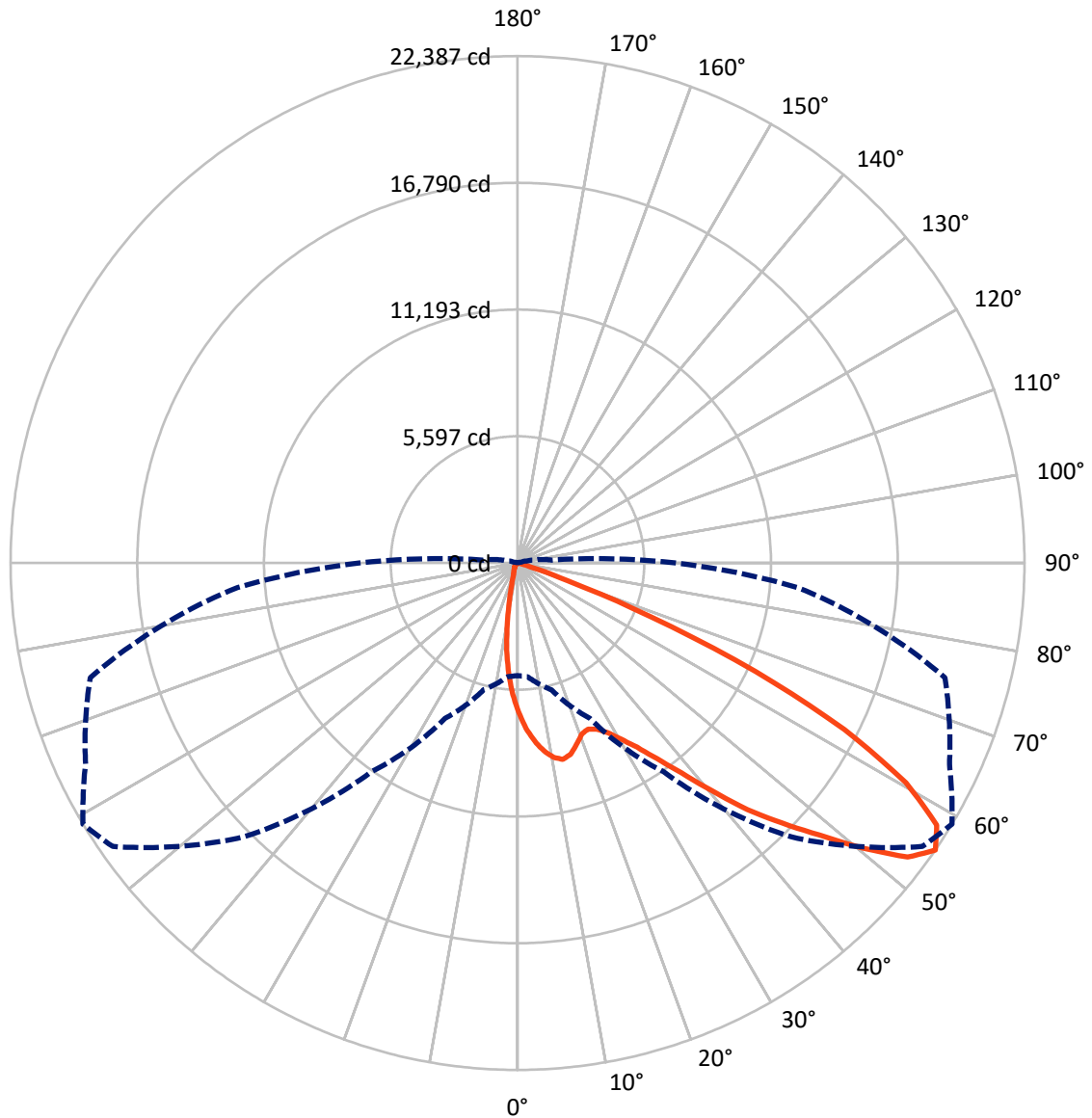


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.2	0.0	1308.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22112.8	0.0	22112.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	23421.0	0.0	23421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.2	2.4
10°-20°	1322.2	5.6
20°-30°	2249.9	9.6
30°-40°	3869.3	16.5
40°-50°	5973.7	25.5
50°-60°	6005.5	25.6
60°-70°	3079.7	13.1
70°-80°	333.7	1.4
80°-90°	34.9	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°	23421.0	100.0
0°-180°	23421.0	100.0

Coefficient of Utilization



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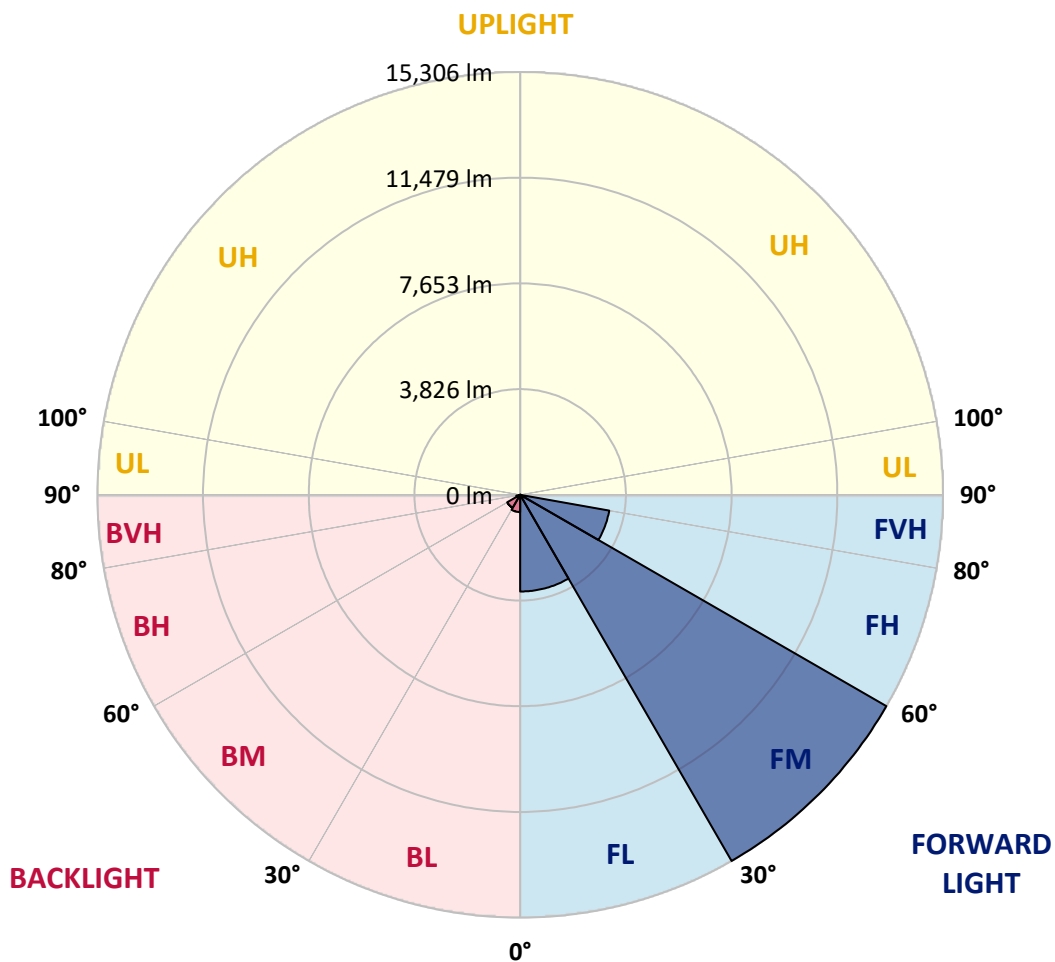
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3499.9	14.9			
FM (30°-60°)	15305.5	65.3			
FH (60°-80°)	3273.2	14.0			G2/5000
FVH (80°-90°)	34.2	0.1			G1/100
BL (0°-30°)	624.4	2.7	B2/1000		
BM (30°-60°)	542.9	2.3	B1/1000		
BH (60°-80°)	140.2	0.6	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9
2.5°	7800.9	7718.0	7693.1	7676.5	7600.5	7505.2	7375.2	7314.4	7190.0	6989.6	6743.6
5°	8515.5	8500.3	8445.0	8414.6	8333.1	8197.6	7990.3	7890.8	7693.1	7355.9	6915.0
7.5°	8203.1	8298.5	8374.5	8501.7	8662.0	8656.5	8482.3	8378.7	8157.5	7712.5	7105.7
10°	6996.5	7073.9	7198.3	7487.2	8076.0	8595.7	8800.2	8725.6	8548.7	8040.1	7289.5
12.5°	6760.2	6751.9	6774.0	6858.3	7166.5	7907.4	8746.3	8897.0	8861.1	8340.0	7463.7
15°	6885.9	6876.3	6873.5	6902.5	6977.2	7289.5	8341.4	8774.0	9051.8	8617.8	7611.6
17.5°	7238.4	7196.9	7174.8	7151.3	7129.2	7206.6	7854.8	8429.8	9080.8	8861.1	7734.6
20°	7842.4	7773.3	7691.7	7559.1	7434.7	7396.0	7650.3	8076.0	8977.2	9046.3	7814.8
22.5°	8601.2	8512.8	8371.8	8129.9	7877.0	7730.4	7751.2	7964.0	8822.4	9248.1	7852.1
25°	9454.0	9340.7	9152.7	8816.8	8445.0	8185.2	8049.7	8124.4	8751.9	9484.4	7894.9
27.5°	10367.6	10241.8	9995.8	9538.3	9116.8	8765.7	8489.3	8479.6	8872.1	9794.0	7964.0
30°	11272.9	11253.6	10932.9	10449.2	9890.8	9463.7	9065.6	9014.5	9208.0	10222.5	8100.9
32.5°	12480.9	12335.8	11943.3	11445.7	10801.6	10288.8	9817.5	9698.7	9723.5	10721.5	8312.3
35°	14004.1	13845.1	13292.3	12605.3	11885.2	11279.8	10758.8	10597.1	10536.2	11538.3	8668.9
37.5°	14988.2	14985.4	14638.5	13939.1	13166.5	12498.9	11932.2	11742.9	11619.9	12525.2	9221.8
40°	15014.5	15079.4	15125.0	15118.1	14568.0	13953.0	13449.8	13216.3	12930.2	13843.8	9936.4
42.5°	14208.7	14375.9	14778.1	15460.9	15787.1	15542.4	15118.1	14888.7	14463.0	15255.0	10807.1
45°	13119.5	13235.6	13939.1	15196.9	16447.8	17118.1	16794.7	16384.2	15823.0	16727.0	11588.1
47.5°	12631.6	12652.3	13107.1	14487.9	16497.5	18409.1	18605.3	17937.7	17058.7	17912.9	12199.0
50°	11173.4	11210.7	11838.2	13259.1	15914.2	19018.6	20424.3	19791.2	18406.3	18826.5	12421.5
52.5°	8421.5	8474.1	9270.2	11239.8	14310.9	18758.7	21726.3	21572.8	19882.4	19272.9	12434.0
55°	4968.9	5038.0	5798.2	7566.0	11256.4	17105.7	21823.0	22386.9	21047.6	19536.9	12414.6
57.5°	2320.7	2369.0	2804.4	3897.7	7000.7	13519.0	20366.2	21828.5	21690.3	19676.5	12551.4
60°	1232.9	1246.7	1351.8	1687.6	3163.8	8572.2	17523.1	19711.1	21104.3	19870.0	12718.7
62.5°	942.6	946.8	941.3	981.3	1329.6	3805.1	13245.3	16204.5	18744.9	19724.9	12533.5
65°	816.9	823.8	785.1	775.4	852.8	1357.3	7868.7	11550.8	14729.7	17766.3	11271.6
67.5°	732.5	735.3	688.3	648.2	662.1	733.9	3104.3	6323.4	9749.8	13022.8	8170.0
70°	674.5	671.7	620.6	557.0	539.0	501.7	986.9	2317.9	4659.3	6604.0	3799.6
72.5°	597.1	598.5	573.6	490.7	447.8	351.1	457.5	675.9	1390.5	1799.6	890.1
75°	529.4	522.5	492.1	439.5	369.0	230.8	226.7	301.3	428.5	425.7	192.1
77.5°	382.9	375.9	385.6	360.7	283.3	149.3	113.3	145.1	174.2	168.6	53.9
80°	280.6	276.4	248.8	299.9	250.2	102.3	70.5	77.4	89.8	76.0	16.6
82.5°	192.1	190.7	175.5	165.9	142.4	62.2	44.2	48.4	58.1	42.8	8.3
85°	30.4	34.6	127.2	100.9	84.3	27.6	30.4	33.2	38.7	23.5	2.8
87.5°	0.0	0.0	59.4	52.5	16.6	11.1	18.0	19.4	19.4	12.4	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°	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9	6592.9
2.5°	6617.8	6479.6	6223.9	5959.9	5715.3	5423.6	5223.2	5072.5	4898.4	4851.4	4953.7
5°	6663.4	6402.2	5852.1	5253.6	4691.1	4067.7	3590.9	3213.5	2872.1	2756.0	2861.1
7.5°	6735.3	6346.9	5449.9	4464.4	3485.8	2512.8	1846.6	1408.4	1129.2	1046.3	1090.5
10°	6807.2	6266.7	4984.1	3530.0	2192.1	1223.2	796.1	635.8	576.4	563.9	570.8
12.5°	6866.6	6158.9	4416.0	2510.0	1172.1	655.1	521.1	494.8	486.5	486.5	489.3
15°	6902.5	5995.8	3742.9	1596.4	674.5	494.8	454.7	446.4	446.4	447.8	450.6
17.5°	6898.4	5788.5	3006.2	966.1	504.5	438.1	414.6	407.7	406.4	409.1	410.5
20°	6847.2	5517.6	2266.8	637.2	439.5	399.4	375.9	363.5	362.1	364.9	367.7
22.5°	6750.5	5183.1	1621.3	490.7	396.7	362.1	333.1	322.0	322.0	324.8	327.6
25°	6633.0	4774.0	1108.5	416.0	358.0	322.0	294.4	284.7	287.5	294.4	295.8
27.5°	6486.5	4313.7	753.3	356.6	311.0	282.0	261.2	254.3	261.2	270.9	273.7
30°	6360.7	3834.1	537.7	308.2	264.0	243.3	230.8	230.8	240.5	258.5	262.6
32.5°	6264.0	3369.7	414.6	272.3	229.4	211.5	204.6	211.5	226.7	244.6	248.8
35°	6251.5	2986.9	351.1	243.3	204.6	186.6	183.8	196.3	211.5	225.3	228.1
37.5°	6346.9	2633.0	316.5	219.8	182.4	165.9	163.1	178.3	193.5	210.1	214.2
40°	6528.0	2355.2	291.6	197.6	164.5	146.5	141.0	152.0	172.8	194.9	200.4
42.5°	6762.9	2125.8	264.0	175.5	146.5	121.6	114.7	127.2	149.3	172.8	179.7
45°	6986.8	1928.1	233.6	150.7	123.0	94.0	91.2	107.8	118.9	142.4	147.9
47.5°	7109.9	1754.0	207.3	123.0	95.4	76.0	76.0	80.2	91.2	118.9	124.4
50°	7068.4	1614.4	179.7	91.2	66.3	58.1	58.1	56.7	73.3	95.4	99.5
52.5°	6985.5	1534.2	154.8	70.5	45.6	41.5	37.3	41.5	51.1	60.8	62.2
55°	6973.0	1520.4	129.9	56.7	31.8	27.6	20.7	20.7	20.7	19.4	16.6
57.5°	7069.8	1542.5	109.2	45.6	23.5	18.0	11.1	0.0	0.0	0.0	0.0
60°	7169.3	1566.0	94.0	31.8	16.6	9.7	1.4	0.0	0.0	0.0	0.0
62.5°	7003.4	1513.5	78.8	19.4	12.4	4.1	0.0	0.0	0.0	0.0	0.0
65°	6152.0	1288.2	62.2	13.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4375.9	862.5	41.5	8.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	1997.2	360.7	26.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	427.1	112.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	87.1	81.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.6	128.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.6	92.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	13.8	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)