

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: P193456

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193456
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-08-LED-E1-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 20996 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 257
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

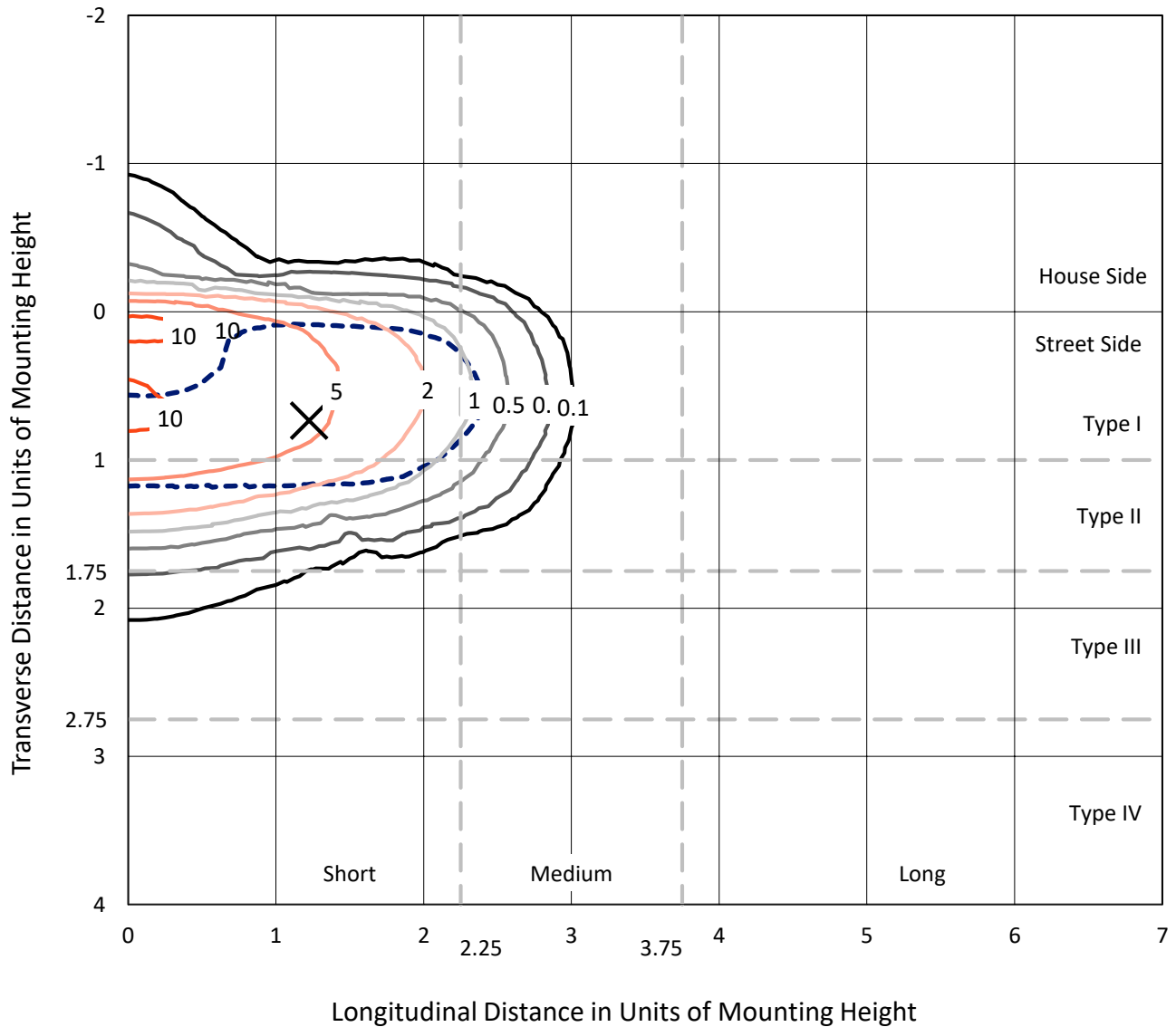


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

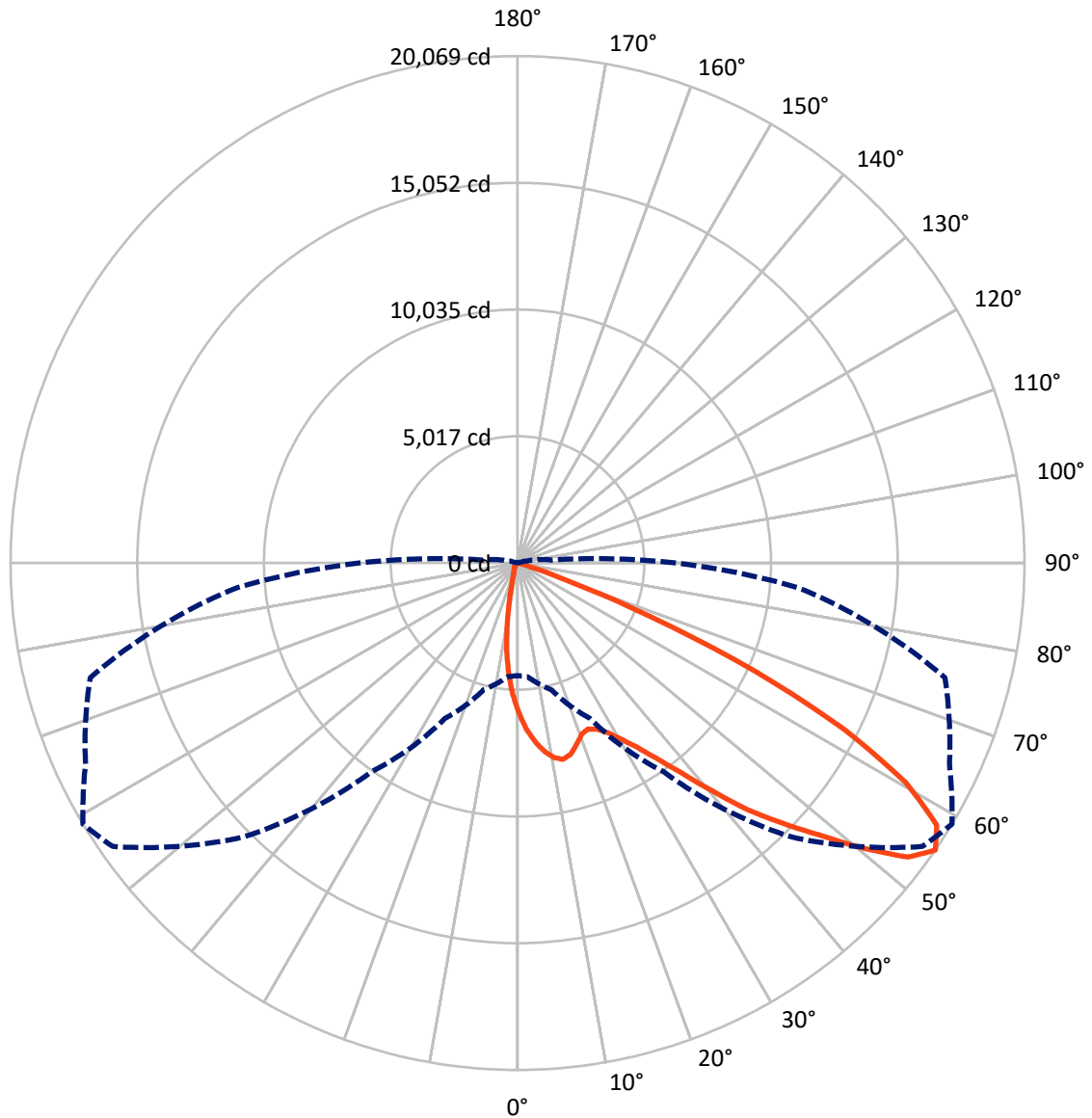


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - Full Cutoff

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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	1172.8	0.0	1172.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	19823.3	0.0	19823.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	20996.0	0.0	20996.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.0	2.4
10°-20°	1185.3	5.6
20°-30°	2016.9	9.6
30°-40°	3468.6	16.5
40°-50°	5355.2	25.5
50°-60°	5383.7	25.6
60°-70°	2760.8	13.1
70°-80°	299.2	1.4
80°-90°	31.3	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°	20996.0	100.0
0°-180°	20996.0	100.0



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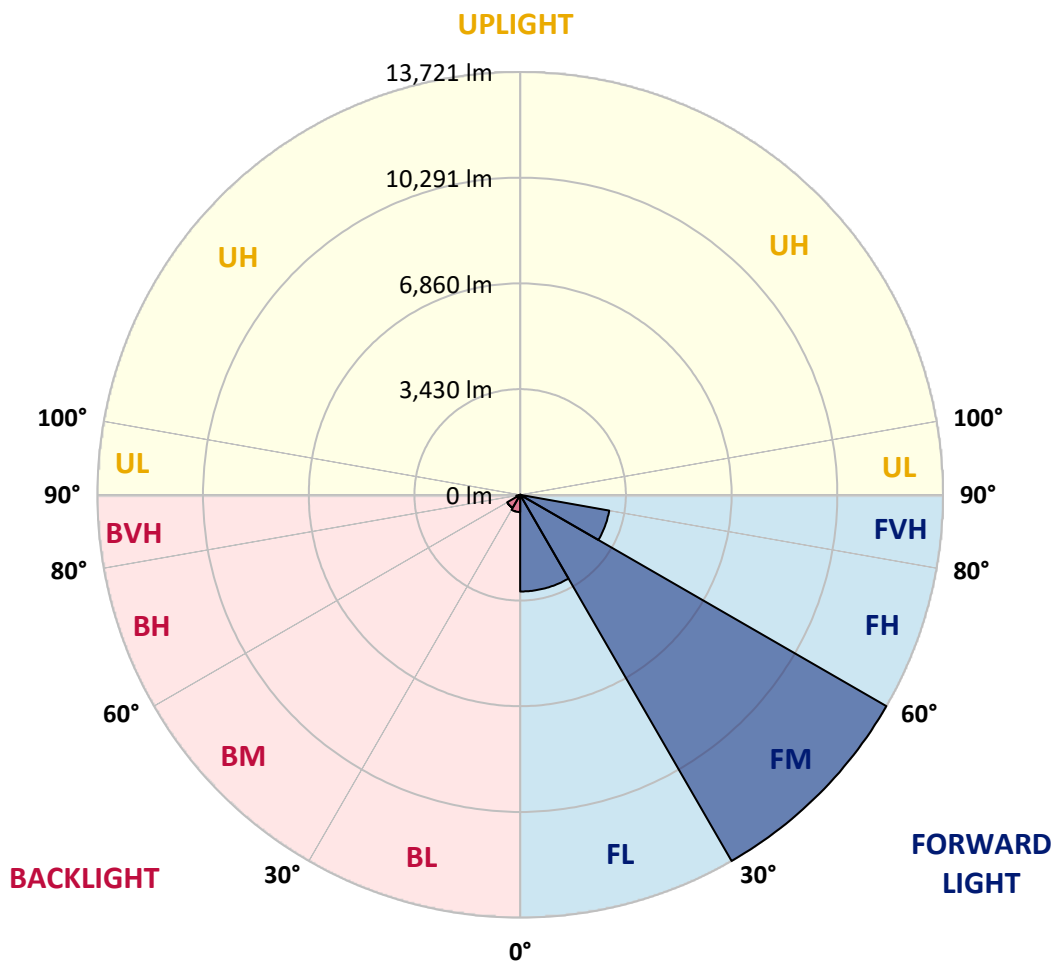
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3137.5	14.9			
FM (30°-60°)	13720.8	65.3			
FH (60°-80°)	2934.3	14.0			G2/5000
FVH (80°-90°)	30.6	0.1			G1/100
BL (0°-30°)	559.8	2.7	B2/1000		
BM (30°-60°)	486.7	2.3	B1/1000		
BH (60°-80°)	125.6	0.6	B1/500		G1/500
BVH (80°-90°)	0.6	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°	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3
2.5°	6993.2	6918.9	6896.6	6881.7	6813.6	6728.1	6611.6	6557.1	6445.6	6265.9	6045.4
5°	7633.8	7620.2	7570.6	7543.4	7470.3	7348.8	7163.0	7073.8	6896.6	6594.3	6199.0
7.5°	7353.8	7439.3	7507.4	7621.4	7765.2	7760.2	7604.1	7511.2	7312.9	6913.9	6370.0
10°	6272.1	6341.5	6453.0	6712.0	7239.8	7705.7	7889.1	7822.2	7663.6	7207.6	6534.8
12.5°	6060.2	6052.8	6072.6	6148.2	6424.5	7088.6	7840.7	7975.8	7943.6	7476.5	6690.9
15°	6173.0	6164.3	6161.8	6187.8	6254.8	6534.8	7477.7	7865.5	8114.6	7725.5	6823.5
17.5°	6488.9	6451.8	6431.9	6410.9	6391.1	6460.4	7041.6	7557.0	8140.6	7943.6	6933.8
20°	7030.4	6968.5	6895.3	6776.4	6664.9	6630.2	6858.2	7239.8	8047.7	8109.6	7005.6
22.5°	7710.6	7631.3	7505.0	7288.1	7061.4	6930.0	6948.6	7139.4	7908.9	8290.5	7039.1
25°	8475.1	8373.5	8205.0	7903.9	7570.6	7337.7	7216.3	7283.2	7845.7	8502.4	7077.5
27.5°	9294.2	9181.4	8960.9	8550.7	8172.8	7858.1	7610.3	7601.6	7953.5	8780.0	7139.4
30°	10105.7	10088.4	9800.9	9367.3	8866.7	8483.8	8127.0	8081.1	8254.6	9164.1	7262.1
32.5°	11188.7	11058.6	10706.7	10260.6	9683.2	9223.5	8801.0	8694.5	8716.8	9611.4	7451.7
35°	12554.1	12411.6	11916.0	11300.2	10654.6	10111.9	9644.8	9499.8	9445.3	10343.6	7771.4
37.5°	13436.3	13433.8	13122.8	12495.9	11803.2	11204.8	10696.8	10527.0	10416.7	11228.3	8267.0
40°	13459.9	13518.1	13559.0	13552.8	13059.7	12508.3	12057.3	11847.9	11591.4	12410.4	8907.6
42.5°	12737.5	12887.4	13248.0	13860.1	14152.5	13933.2	13552.8	13347.1	12965.5	13675.5	9688.2
45°	11761.1	11865.2	12495.9	13623.4	14744.8	15345.7	15055.8	14687.8	14184.7	14995.1	10388.2
47.5°	11323.7	11342.3	11750.0	12987.8	14789.4	16503.0	16678.9	16080.5	15292.4	16058.2	10935.9
50°	10016.5	10050.0	10612.5	11886.3	14266.5	17049.4	18309.5	17742.0	16500.5	16877.2	11135.4
52.5°	7549.6	7596.7	8310.4	10076.0	12829.2	16816.5	19476.7	19339.2	17823.8	17277.4	11146.5
55°	4454.4	4516.4	5197.8	6782.6	10090.9	15334.6	19563.5	20069.0	18868.3	17514.1	11129.2
57.5°	2080.4	2123.7	2514.0	3494.1	6275.8	12119.2	18257.5	19568.4	19444.5	17639.2	11251.9
60°	1105.2	1117.6	1211.8	1512.9	2836.2	7684.6	15708.8	17670.2	18919.1	17812.7	11401.8
62.5°	845.0	848.8	843.8	879.7	1192.0	3411.1	11873.9	14526.7	16804.1	17682.6	11235.8
65°	732.3	738.5	703.8	695.1	764.5	1216.8	7053.9	10354.8	13204.6	15926.8	10104.5
67.5°	656.7	659.2	617.1	581.1	593.5	657.9	2782.9	5668.7	8740.3	11674.4	7324.1
70°	604.7	602.2	556.3	499.3	483.2	449.8	884.7	2077.9	4176.9	5920.2	3406.2
72.5°	535.3	536.5	514.2	439.9	401.5	314.7	410.1	605.9	1246.5	1613.3	798.0
75°	474.6	468.4	441.1	394.0	330.8	206.9	203.2	270.1	384.1	381.6	172.2
77.5°	343.2	337.0	345.7	323.4	254.0	133.8	101.6	130.1	156.1	151.2	48.3
80°	251.5	247.8	223.0	268.9	224.3	91.7	63.2	69.4	80.5	68.1	14.9
82.5°	172.2	171.0	157.4	148.7	127.6	55.8	39.6	43.4	52.0	38.4	7.4
85°	27.3	31.0	114.0	90.5	75.6	24.8	27.3	29.7	34.7	21.1	2.5
87.5°	0.0	0.0	53.3	47.1	14.9	9.9	16.1	17.3	17.3	11.2	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°	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3	5910.3
2.5°	5932.6	5808.7	5579.5	5342.8	5123.5	4862.1	4682.4	4547.3	4391.2	4349.1	4440.8
5°	5973.5	5739.3	5246.2	4709.7	4205.4	3646.5	3219.1	2880.8	2574.8	2470.7	2564.8
7.5°	6037.9	5689.7	4885.6	4002.2	3124.9	2252.6	1655.4	1262.6	1012.3	938.0	977.6
10°	6102.4	5617.9	4468.0	3164.5	1965.1	1096.6	713.7	570.0	516.7	505.5	511.7
12.5°	6155.6	5521.2	3958.8	2250.1	1050.7	587.3	467.1	443.6	436.1	436.1	438.6
15°	6187.8	5375.0	3355.4	1431.1	604.7	443.6	407.6	400.2	400.2	401.5	403.9
17.5°	6184.1	5189.2	2694.9	866.1	452.3	392.8	371.7	365.5	364.3	366.8	368.0
20°	6138.3	4946.3	2032.1	571.2	394.0	358.1	337.0	325.9	324.6	327.1	329.6
22.5°	6051.6	4646.5	1453.4	439.9	355.6	324.6	298.6	288.7	288.7	291.2	293.7
25°	5946.2	4279.7	993.7	373.0	320.9	288.7	263.9	255.2	257.7	263.9	265.2
27.5°	5814.9	3867.1	675.3	319.7	278.8	252.8	234.2	228.0	234.2	242.9	245.3
30°	5702.1	3437.1	482.0	276.3	236.7	218.1	206.9	206.9	215.6	231.7	235.4
32.5°	5615.4	3020.8	371.7	244.1	205.7	189.6	183.4	189.6	203.2	219.3	223.0
35°	5604.3	2677.6	314.7	218.1	183.4	167.3	164.8	175.9	189.6	202.0	204.4
37.5°	5689.7	2360.4	283.7	197.0	163.6	148.7	146.2	159.8	173.5	188.3	192.1
40°	5852.1	2111.4	261.4	177.2	147.4	131.3	126.4	136.3	154.9	174.7	179.7
42.5°	6062.7	1905.7	236.7	157.4	131.3	109.0	102.8	114.0	133.8	154.9	161.1
45°	6263.4	1728.5	209.4	135.1	110.3	84.3	81.8	96.6	106.6	127.6	132.6
47.5°	6373.7	1572.4	185.9	110.3	85.5	68.1	68.1	71.9	81.8	106.6	111.5
50°	6336.5	1447.2	161.1	81.8	59.5	52.0	52.0	50.8	65.7	85.5	89.2
52.5°	6262.2	1375.4	138.8	63.2	40.9	37.2	33.5	37.2	45.8	54.5	55.8
55°	6251.0	1363.0	116.5	50.8	28.5	24.8	18.6	18.6	18.6	17.3	14.9
57.5°	6337.8	1382.8	97.9	40.9	21.1	16.1	9.9	0.0	0.0	0.0	0.0
60°	6427.0	1403.9	84.3	28.5	14.9	8.7	1.2	0.0	0.0	0.0	0.0
62.5°	6278.3	1356.8	70.6	17.3	11.2	3.7	0.0	0.0	0.0	0.0	0.0
65°	5515.0	1154.8	55.8	12.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3922.9	773.2	37.2	7.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1790.4	323.4	23.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	382.9	100.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	78.1	73.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.8	115.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.9	83.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	12.4	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)