

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: P191746

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191746
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-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA 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: 42840 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 511
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

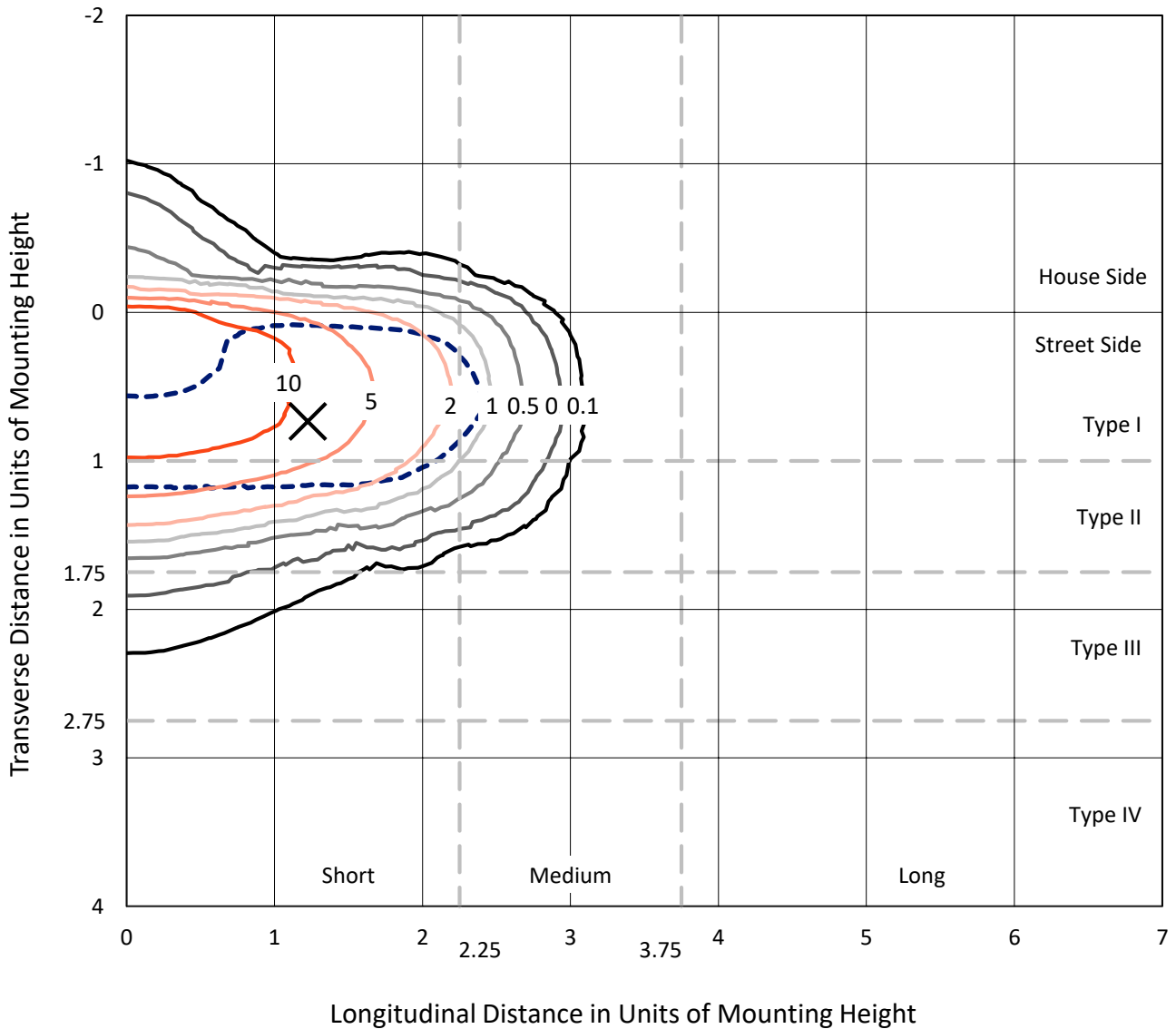


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

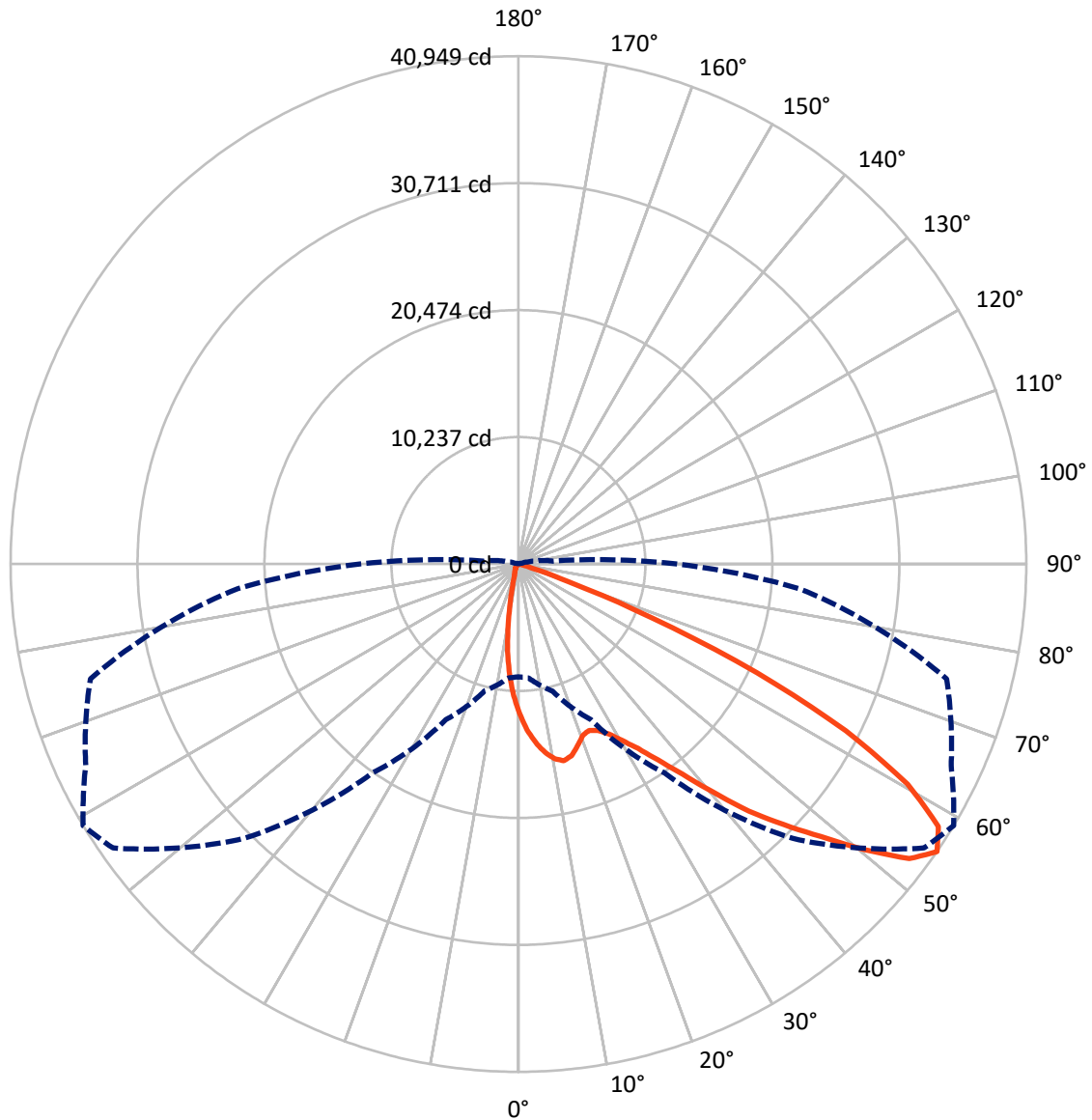


Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - Full Cutoff

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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	2392.9	0.0	2392.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	40447.1	0.0	40447.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	42840.0	0.0	42840.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1010.1	2.4
10°-20°	2418.4	5.6
20°-30°	4115.3	9.6
30°-40°	7077.4	16.5
40°-50°	10926.7	25.5
50°-60°	10984.8	25.6
60°-70°	5633.1	13.1
70°-80°	610.5	1.4
80°-90°	63.8	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°	42840.0	100.0
0°-180°	42840.0	100.0



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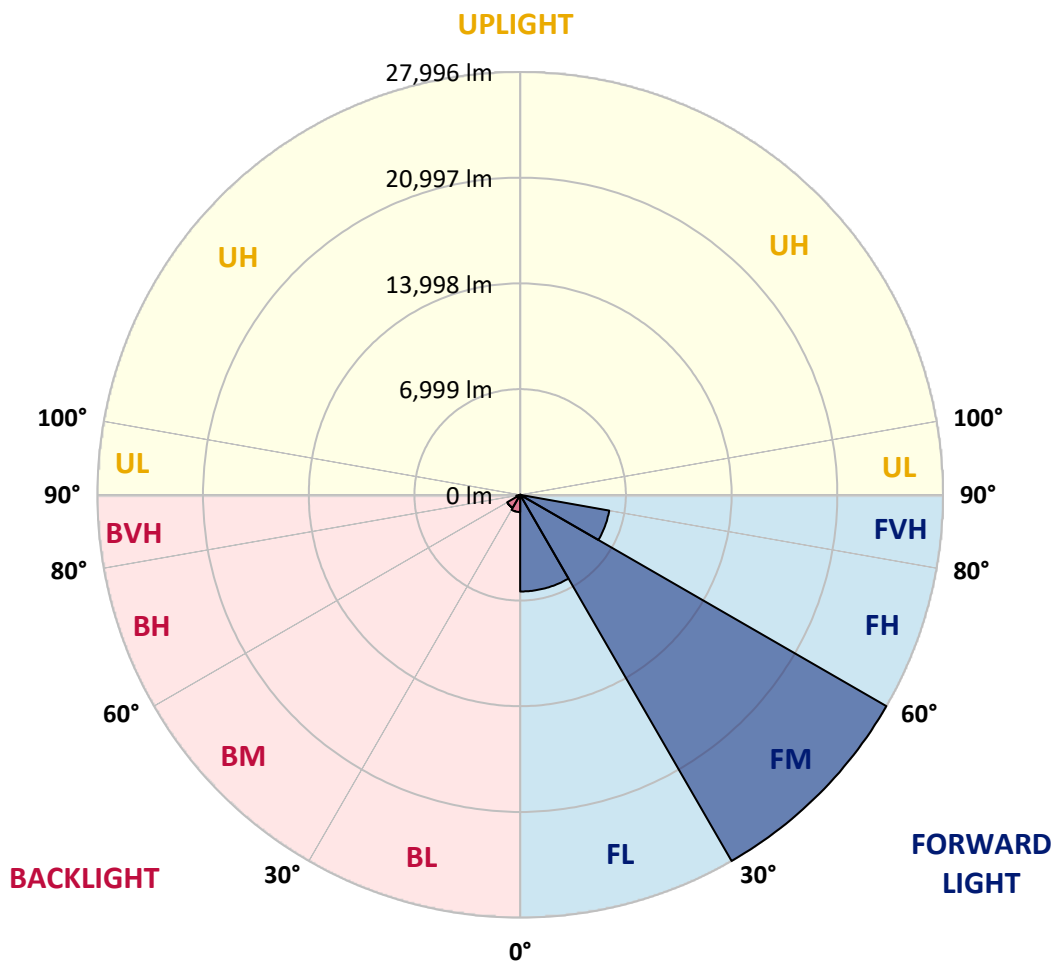
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6401.7	14.9			
FM	(30°-60°)	27995.8	65.3			
FH	(60°-80°)	5987.2	14.0			G3/7500
FVH	(80°-90°)	62.5	0.1			G1/100
BL	(0°-30°)	1142.1	2.7	B3/2500		
BM	(30°-60°)	993.1	2.3	B1/1000		
BH	(60°-80°)	256.4	0.6	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3
2.5°	14268.9	14117.2	14071.7	14041.4	13902.3	13727.9	13490.2	13379.0	13151.5	12784.9	12334.9
5°	15576.0	15548.2	15447.0	15391.4	15242.3	14994.5	14615.3	14433.2	14071.7	13454.8	12648.4
7.5°	15004.6	15179.1	15318.1	15550.7	15844.0	15833.8	15515.3	15325.7	14921.2	14107.1	12997.3
10°	12797.5	12939.1	13166.6	13695.0	14772.0	15722.6	16096.8	15960.3	15636.6	14706.3	13333.5
12.5°	12365.2	12350.0	12390.5	12544.7	13108.5	14463.6	15998.2	16273.7	16208.0	15254.9	13652.0
15°	12595.3	12577.6	12572.5	12625.6	12762.1	13333.5	15257.4	16048.7	16556.9	15763.1	13922.6
17.5°	13240.0	13164.1	13123.7	13080.7	13040.2	13181.8	14367.5	15419.2	16610.0	16208.0	14147.6
20°	14344.8	14218.4	14069.2	13826.5	13599.0	13528.2	13993.3	14772.0	16420.4	16546.8	14294.2
22.5°	15732.7	15570.9	15313.0	14870.6	14408.0	14140.0	14177.9	14567.2	16137.2	16915.9	14362.5
25°	17292.6	17085.3	16741.5	16127.1	15447.0	14971.7	14724.0	14860.5	16008.3	17348.2	14440.8
27.5°	18963.7	18733.6	18283.6	17446.8	16675.7	16033.6	15527.9	15510.2	16228.2	17914.5	14567.2
30°	20619.6	20584.2	19997.7	19112.9	18091.5	17310.3	16582.2	16488.6	16842.6	18698.2	14817.5
32.5°	22829.3	22563.8	21845.8	20935.7	19757.5	18819.6	17957.5	17740.1	17785.6	19610.9	15204.3
35°	25615.3	25324.5	24313.3	23056.8	21739.6	20632.3	19679.2	19383.4	19272.1	21105.0	15856.6
37.5°	27415.3	27410.3	26775.7	25496.5	24083.2	22862.1	21825.6	21479.2	21254.2	22910.2	16867.9
40°	27463.4	27582.2	27665.6	27653.0	26646.8	25521.7	24601.5	24174.2	23650.9	25322.0	18174.9
42.5°	25989.4	26295.4	27031.0	28280.0	28876.6	28429.1	27653.0	27233.3	26454.6	27903.3	19767.7
45°	23997.3	24209.6	25496.5	27797.1	30085.1	31311.2	30719.6	29968.8	28942.3	30595.7	21196.1
47.5°	23104.8	23142.7	23974.5	26500.1	30176.1	33672.5	34031.5	32810.4	31202.5	32764.9	22313.5
50°	20437.6	20505.9	21653.7	24252.6	29109.2	34787.4	37358.6	36200.7	33667.5	34436.0	22720.5
52.5°	15404.1	15500.1	16956.3	20559.0	26176.5	34312.1	39740.1	39459.5	36367.5	35252.6	22743.3
55°	9088.7	9215.1	10605.6	13839.1	20589.3	31288.5	39917.1	40948.5	38498.8	35735.5	22707.9
57.5°	4244.8	4333.3	5129.6	7129.4	12805.1	24727.9	37252.4	39927.2	39674.4	35990.8	22958.2
60°	2255.1	2280.4	2472.5	3086.9	5786.9	15679.6	32052.0	36054.0	38602.4	36344.8	23264.1
62.5°	1724.2	1731.8	1721.7	1795.0	2432.1	6960.0	24227.3	29640.1	34286.9	36079.3	22925.3
65°	1494.1	1506.8	1436.0	1418.3	1559.9	2482.6	14392.8	21127.8	26942.6	32496.9	20617.1
67.5°	1339.9	1345.0	1259.0	1185.7	1211.0	1342.5	5678.2	11566.3	17833.6	23820.3	14943.9
70°	1233.7	1228.7	1135.1	1018.8	986.0	917.7	1805.1	4239.7	8522.4	12079.5	6949.9
72.5°	1092.2	1094.7	1049.2	897.5	819.1	642.2	836.8	1236.3	2543.3	3291.7	1628.1
75°	968.3	955.6	900.0	804.0	675.0	422.2	414.6	551.1	783.7	778.7	351.4
77.5°	700.3	687.7	705.4	659.8	518.3	273.0	207.3	265.5	318.5	308.4	98.6
80°	513.2	505.6	455.1	548.6	457.6	187.1	128.9	141.6	164.3	139.0	30.3
82.5°	351.4	348.9	321.1	303.4	260.4	113.8	80.9	88.5	106.2	78.4	15.2
85°	55.6	63.2	232.6	184.6	154.2	50.6	55.6	60.7	70.8	43.0	5.1
87.5°	0.0	0.0	108.7	96.1	30.3	20.2	32.9	35.4	35.4	22.8	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°	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3	12059.3
2.5°	12104.8	11852.0	11384.3	10901.4	10453.9	9920.5	9553.9	9278.3	8959.8	8873.8	9060.9
5°	12188.2	11710.4	10704.2	9609.5	8580.6	7440.4	6568.1	5878.0	5253.5	5041.1	5233.3
7.5°	12319.7	11609.3	9968.5	8165.9	6376.0	4596.2	3377.6	2576.2	2065.5	1913.8	1994.7
10°	12451.2	11462.7	9116.5	6456.9	4009.7	2237.4	1456.2	1163.0	1054.2	1031.5	1044.1
12.5°	12559.9	11265.5	8077.5	4591.1	2143.9	1198.3	953.1	905.1	889.9	889.9	895.0
15°	12625.6	10967.1	6846.2	2920.0	1233.7	905.1	831.8	816.6	816.6	819.1	824.2
17.5°	12618.0	10587.9	5498.7	1767.2	922.8	801.4	758.4	745.8	743.3	748.3	750.9
20°	12524.5	10092.4	4146.2	1165.5	804.0	730.6	687.7	664.9	662.4	667.4	672.5
22.5°	12347.5	9480.6	2965.5	897.5	725.6	662.4	609.3	589.1	589.1	594.1	599.2
25°	12132.6	8732.3	2027.6	761.0	654.8	589.1	538.5	520.8	525.9	538.5	541.0
27.5°	11864.6	7890.4	1377.8	652.3	568.8	515.7	477.8	465.2	477.8	495.5	500.6
30°	11634.6	7013.1	983.5	563.8	482.9	445.0	422.2	422.2	439.9	472.8	480.3
32.5°	11457.6	6163.6	758.4	498.0	419.7	386.8	374.2	386.8	414.6	447.5	455.1
35°	11434.9	5463.3	642.2	445.0	374.2	341.3	336.2	359.0	386.8	412.1	417.1
37.5°	11609.3	4816.1	578.9	402.0	333.7	303.4	298.3	326.1	353.9	384.3	391.9
40°	11940.5	4308.0	533.4	361.5	300.9	268.0	257.9	278.1	316.0	356.5	366.6
42.5°	12370.3	3888.3	482.9	321.1	268.0	222.5	209.8	232.6	273.0	316.0	328.7
45°	12779.8	3526.8	427.3	275.6	225.0	171.9	166.9	197.2	217.4	260.4	270.5
47.5°	13004.8	3208.2	379.2	225.0	174.4	139.0	139.0	146.6	166.9	217.4	227.5
50°	12929.0	2952.9	328.7	166.9	121.4	106.2	106.2	103.7	134.0	174.4	182.0
52.5°	12777.3	2806.3	283.2	128.9	83.4	75.8	68.3	75.8	93.5	111.2	113.8
55°	12754.5	2781.0	237.6	103.7	58.1	50.6	37.9	37.9	37.9	35.4	30.3
57.5°	12931.5	2821.4	199.7	83.4	43.0	32.9	20.2	0.0	0.0	0.0	0.0
60°	13113.5	2864.4	171.9	58.1	30.3	17.7	2.5	0.0	0.0	0.0	0.0
62.5°	12810.2	2768.3	144.1	35.4	22.8	7.6	0.0	0.0	0.0	0.0	0.0
65°	11252.8	2356.2	113.8	25.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8004.1	1577.6	75.8	15.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3653.2	659.8	48.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	781.2	204.8	32.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	159.3	149.2	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	50.6	235.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.3	169.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	25.3	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)