

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: P191736

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191736
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 39053 lumens
Efficiency: N/A
Efficacy: 87.8 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): 445
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

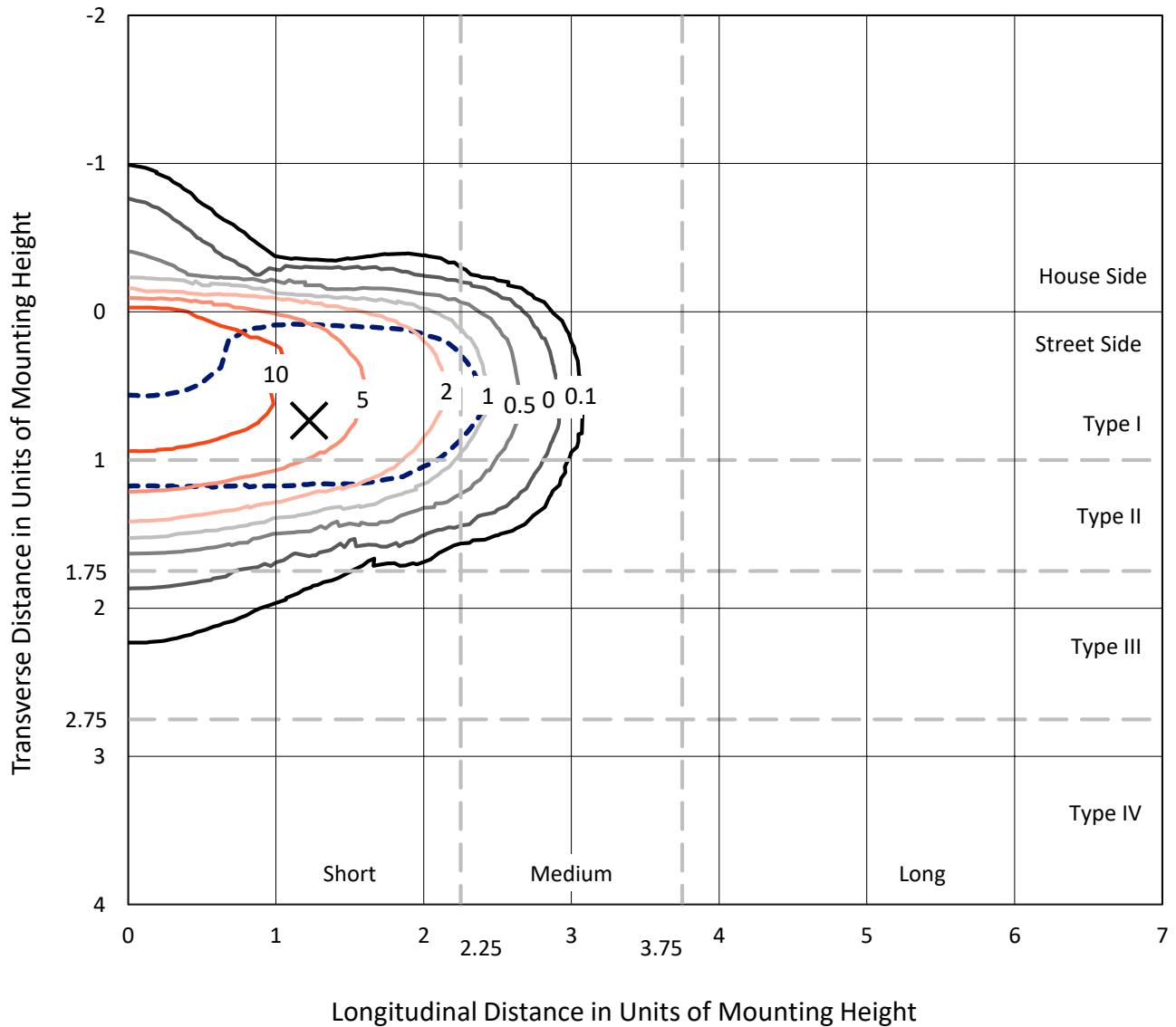


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

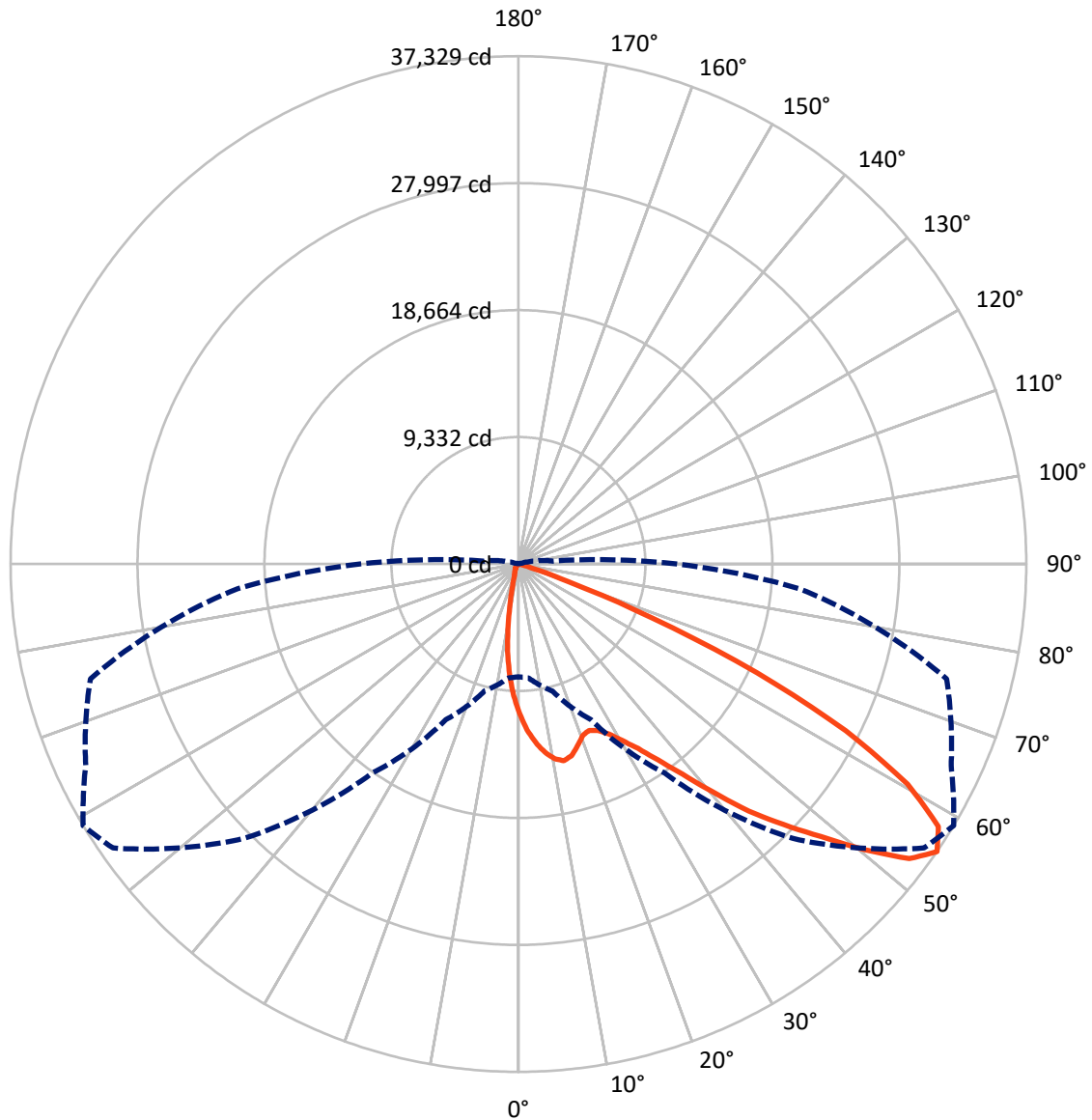


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - Full Cutoff

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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	2181.3	0.0	2181.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	36871.7	0.0	36871.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	39053.0	0.0	39053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.8	2.4
10°-20°	2204.7	5.6
20°-30°	3751.5	9.6
30°-40°	6451.7	16.5
40°-50°	9960.8	25.5
50°-60°	10013.8	25.6
60°-70°	5135.1	13.1
70°-80°	556.5	1.4
80°-90°	58.2	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°	39053.0	100.0
0°-180°	39053.0	100.0

Coefficient of Utilization



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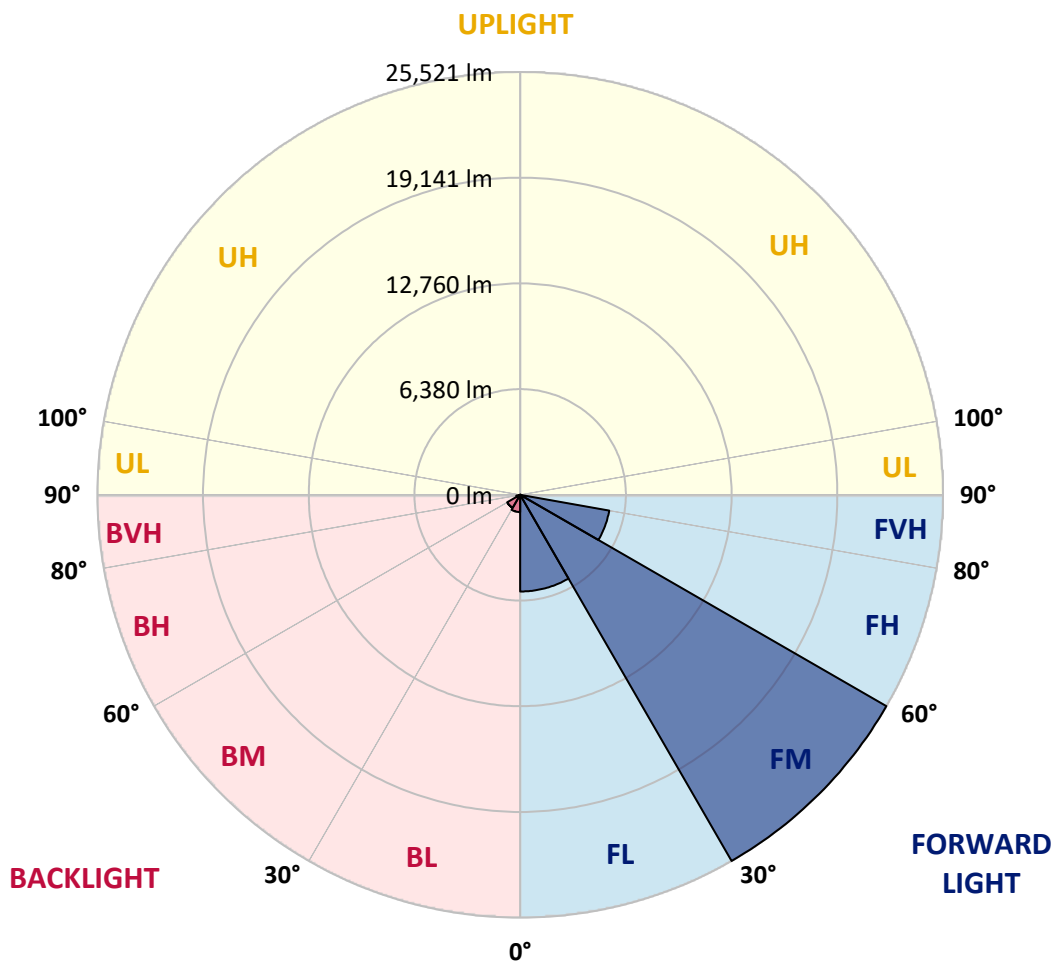
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5835.8	14.9			
FM	(30°-60°)	25521.0	65.3			
FH	(60°-80°)	5457.9	14.0			G3/7500
FVH	(80°-90°)	57.0	0.1			G1/100
BL	(0°-30°)	1041.1	2.7	B3/2500		
BM	(30°-60°)	905.3	2.3	B1/1000		
BH	(60°-80°)	233.7	0.6	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3
2.5°	13007.6	12869.3	12827.8	12800.1	12673.4	12514.4	12297.7	12196.3	11988.9	11654.7	11244.5
5°	14199.1	14173.7	14081.5	14030.8	13894.9	13669.0	13323.3	13157.4	12827.8	12265.5	11530.3
7.5°	13678.2	13837.2	13964.0	14176.0	14443.4	14434.2	14143.8	13970.9	13602.2	12860.1	11848.3
10°	11666.2	11795.3	12002.7	12484.4	13466.2	14332.7	14673.8	14549.4	14254.4	13406.3	12154.8
12.5°	11272.1	11258.3	11295.2	11435.8	11949.7	13185.0	14584.0	14835.2	14775.2	13906.4	12445.2
15°	11481.9	11465.7	11461.1	11509.5	11634.0	12154.8	13908.7	14630.0	15093.3	14369.6	12691.8
17.5°	12069.6	12000.4	11963.5	11924.4	11887.5	12016.6	13097.4	14056.2	15141.7	14775.2	12896.9
20°	13076.7	12961.5	12825.5	12604.2	12396.8	12332.3	12756.4	13466.2	14968.8	15084.1	13030.6
22.5°	14342.0	14194.5	13959.4	13556.1	13134.3	12890.0	12924.6	13279.5	14710.7	15420.6	13092.8
25°	15763.9	15575.0	15261.5	14701.5	14081.5	13648.3	13422.4	13546.9	14593.2	15814.6	13164.3
27.5°	17287.3	17077.6	16667.4	15904.5	15201.6	14616.2	14155.3	14139.2	14793.7	16330.9	13279.5
30°	18796.9	18764.6	18229.9	17423.3	16492.2	15780.1	15116.3	15031.1	15353.7	17045.3	13507.7
32.5°	20811.2	20569.2	19914.7	19085.0	18011.0	17156.0	16370.1	16171.9	16213.4	17877.3	13860.3
35°	23350.9	23085.9	22164.0	21018.6	19817.9	18808.4	17939.6	17669.9	17568.5	19239.4	14454.9
37.5°	24991.8	24987.2	24408.8	23242.6	21954.3	20841.1	19896.2	19580.5	19375.4	20884.9	15376.8
40°	25035.6	25144.0	25220.0	25208.5	24291.2	23265.6	22426.7	22037.3	21560.2	23083.6	16568.3
42.5°	23692.0	23970.9	24641.5	25780.0	26323.9	25916.0	25208.5	24825.9	24116.1	25436.6	18020.2
45°	21875.9	22069.5	23242.6	25339.9	27425.6	28543.3	28004.1	27319.6	26383.9	27891.1	19322.4
47.5°	21062.4	21097.0	21855.2	24157.6	27508.5	30695.9	31023.2	29910.0	28444.2	29868.5	20341.0
50°	18631.0	18693.2	19739.5	22108.7	26536.0	31712.3	34056.1	33000.6	30691.3	31391.9	20712.1
52.5°	14042.4	14129.9	15457.4	18741.6	23862.6	31279.0	36227.1	35971.3	33152.7	32136.3	20732.8
55°	8285.3	8400.5	9668.1	12615.8	18769.2	28522.6	36388.4	37328.7	35095.5	32576.5	20700.6
57.5°	3869.5	3950.2	4676.2	6499.2	11673.2	22542.0	33959.3	36397.7	36167.2	32809.3	20928.7
60°	2055.8	2078.8	2254.0	2814.0	5275.4	14293.6	29218.6	32866.9	35190.0	33131.9	21207.6
62.5°	1571.8	1578.7	1569.5	1636.3	2217.1	6344.8	22085.7	27020.0	31255.9	32890.0	20898.8
65°	1362.1	1373.6	1309.1	1292.9	1422.0	2263.2	13120.5	19260.1	24560.9	29624.2	18794.6
67.5°	1221.5	1226.1	1147.7	1080.9	1103.9	1223.8	5176.3	10543.9	16257.1	21714.6	13622.9
70°	1124.7	1120.1	1034.8	928.8	898.8	836.6	1645.5	3864.9	7769.0	11011.7	6335.5
72.5°	995.6	997.9	956.4	818.2	746.7	585.4	762.8	1127.0	2318.5	3000.7	1484.2
75°	882.7	871.2	820.5	732.9	615.3	384.9	378.0	502.4	714.4	709.8	320.3
77.5°	638.4	626.9	643.0	601.5	472.5	248.9	189.0	242.0	290.4	281.2	89.9
80°	467.8	460.9	414.8	500.1	417.1	170.5	117.5	129.1	149.8	126.8	27.7
82.5°	320.3	318.0	292.7	276.6	237.4	103.7	73.7	80.7	96.8	71.4	13.8
85°	50.7	57.6	212.0	168.2	140.6	46.1	50.7	55.3	64.5	39.2	4.6
87.5°	0.0	0.0	99.1	87.6	27.7	18.4	30.0	32.3	32.3	20.7	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°	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3	10993.3
2.5°	11034.8	10804.3	10377.9	9937.7	9529.8	9043.5	8709.4	8458.1	8167.8	8089.4	8259.9
5°	11110.8	10675.2	9758.0	8760.1	7822.1	6782.6	5987.5	5358.4	4789.1	4595.5	4770.7
7.5°	11230.7	10583.0	9087.3	7444.1	5812.4	4189.9	3079.0	2348.5	1882.9	1744.6	1818.4
10°	11350.5	10449.4	8310.6	5886.1	3655.2	2039.6	1327.5	1060.1	961.0	940.3	951.8
12.5°	11449.6	10269.6	7363.4	4185.3	1954.4	1092.4	868.9	825.1	811.2	811.2	815.9
15°	11509.5	9997.7	6241.0	2661.9	1124.7	825.1	758.2	744.4	744.4	746.7	751.3
17.5°	11502.6	9652.0	5012.7	1611.0	841.2	730.6	691.4	679.9	677.6	682.2	684.5
20°	11417.3	9200.2	3779.7	1062.5	732.9	666.0	626.9	606.1	603.8	608.4	613.0
22.5°	11256.0	8642.5	2703.4	818.2	661.4	603.8	555.4	537.0	537.0	541.6	546.2
25°	11060.1	7960.3	1848.3	693.7	596.9	537.0	490.9	474.8	479.4	490.9	493.2
27.5°	10815.8	7192.9	1256.0	594.6	518.6	470.2	435.6	424.1	435.6	451.7	456.3
30°	10606.1	6393.2	896.5	513.9	440.2	405.6	384.9	384.9	401.0	431.0	437.9
32.5°	10444.8	5618.8	691.4	454.0	382.6	352.6	341.1	352.6	378.0	407.9	414.8
35°	10424.0	4980.4	585.4	405.6	341.1	311.1	306.5	327.3	352.6	375.7	380.3
37.5°	10583.0	4390.4	527.8	366.4	304.2	276.6	272.0	297.3	322.7	350.3	357.2
40°	10885.0	3927.2	486.3	329.6	274.3	244.3	235.1	253.5	288.1	325.0	334.2
42.5°	11276.8	3544.6	440.2	292.7	244.3	202.8	191.3	212.0	248.9	288.1	299.6
45°	11650.1	3215.0	389.5	251.2	205.1	156.7	152.1	179.8	198.2	237.4	246.6
47.5°	11855.2	2924.6	345.7	205.1	159.0	126.8	126.8	133.7	152.1	198.2	207.4
50°	11786.1	2691.9	299.6	152.1	110.6	96.8	96.8	94.5	122.1	159.0	165.9
52.5°	11647.8	2558.2	258.1	117.5	76.1	69.1	62.2	69.1	85.3	101.4	103.7
55°	11627.1	2535.1	216.6	94.5	53.0	46.1	34.6	34.6	34.6	32.3	27.7
57.5°	11788.4	2572.0	182.1	76.1	39.2	30.0	18.4	0.0	0.0	0.0	0.0
60°	11954.3	2611.2	156.7	53.0	27.7	16.1	2.3	0.0	0.0	0.0	0.0
62.5°	11677.8	2523.6	131.4	32.3	20.7	6.9	0.0	0.0	0.0	0.0	0.0
65°	10258.1	2148.0	103.7	23.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7296.6	1438.1	69.1	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3330.2	601.5	43.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	712.1	186.7	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	145.2	136.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.1	214.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.7	154.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	23.0	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)