

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: P191728

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191728
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-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA 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: 38967 lumens
Efficiency: N/A
Efficacy: 93.0 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): 419
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

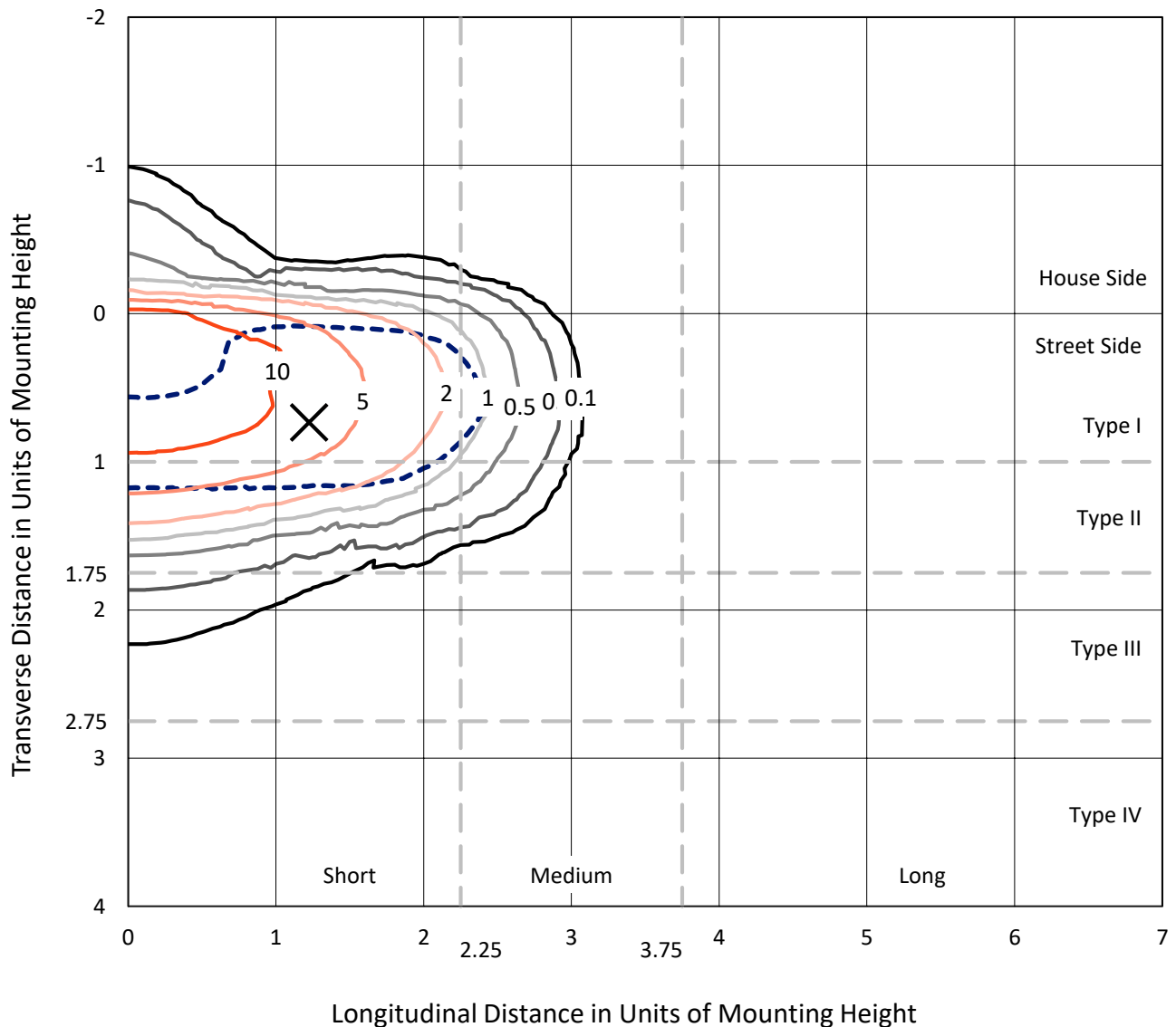


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

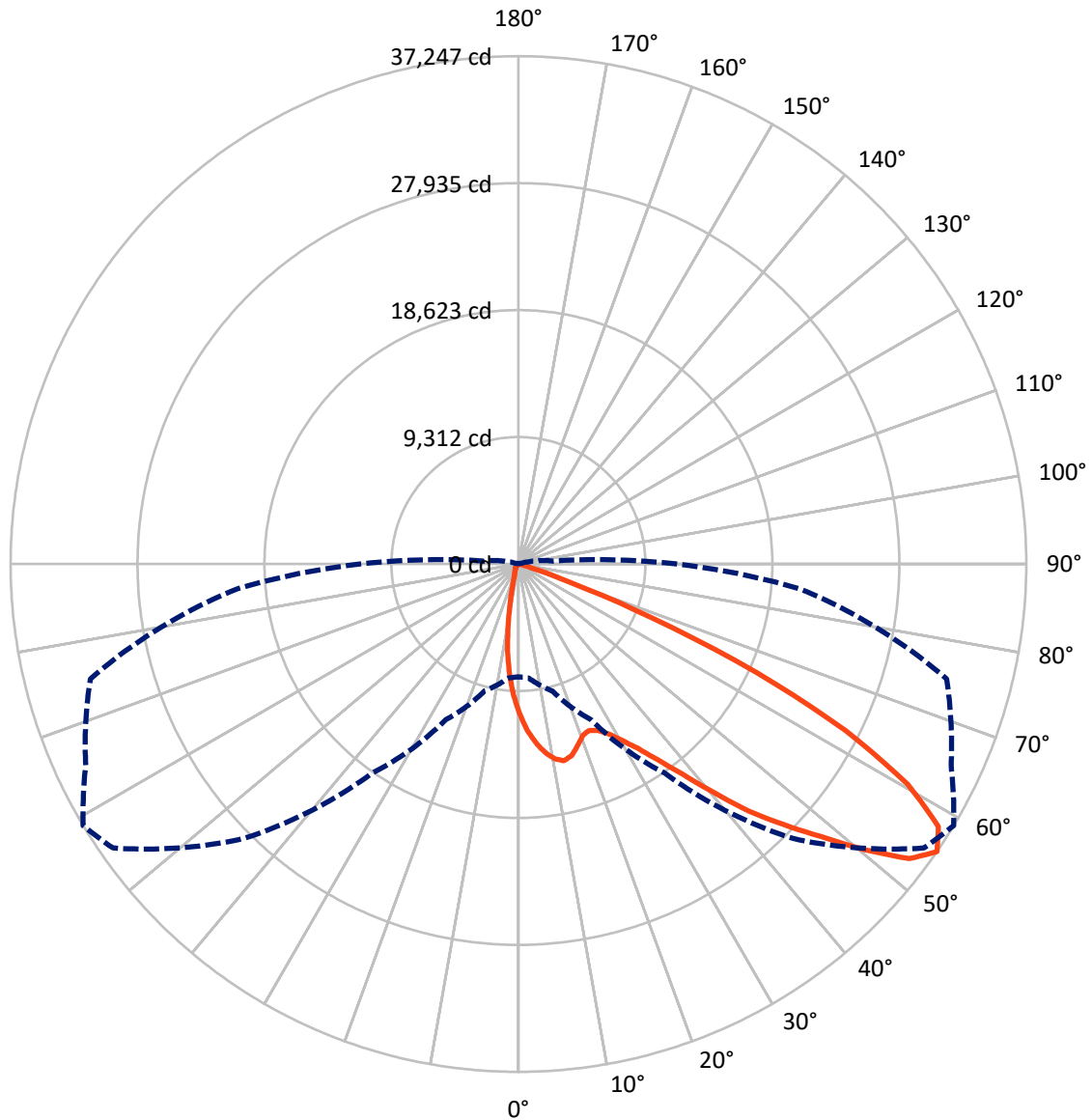


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - Full Cutoff

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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	2176.5	0.0	2176.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	36790.5	0.0	36790.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	38967.0	0.0	38967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.8	2.4
10°-20°	2199.8	5.6
20°-30°	3743.2	9.6
30°-40°	6437.5	16.5
40°-50°	9938.8	25.5
50°-60°	9991.7	25.6
60°-70°	5123.8	13.1
70°-80°	555.3	1.4
80°-90°	58.0	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°	38967.0	100.0
0°-180°	38967.0	100.0

Coefficient of Utilization



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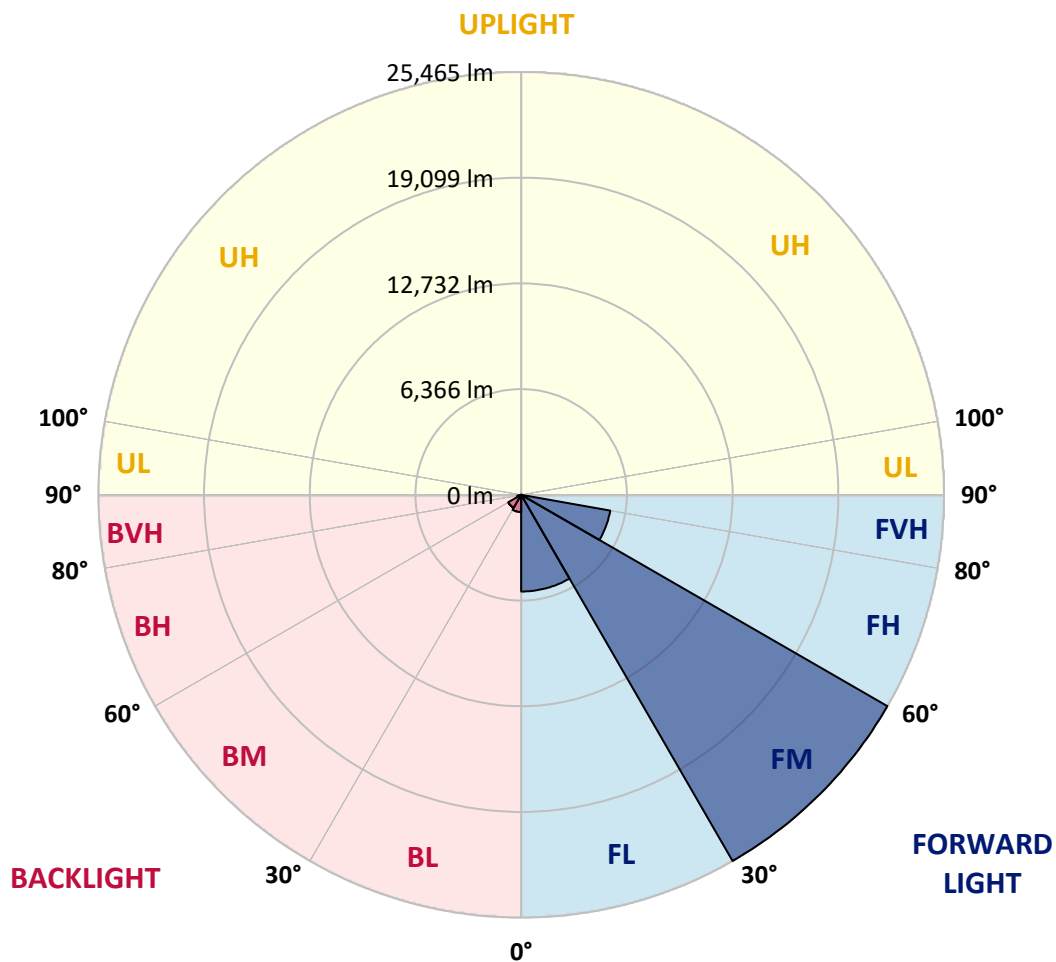
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5822.9	14.9			
FM	(30°-60°)	25464.8	65.3			
FH	(60°-80°)	5445.9	14.0			G3/7500
FVH	(80°-90°)	56.8	0.1			G1/100
BL	(0°-30°)	1038.9	2.7	B3/2500		
BM	(30°-60°)	903.3	2.3	B1/1000		
BH	(60°-80°)	233.2	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°	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1
2.5°	12978.9	12840.9	12799.5	12772.0	12645.5	12486.8	12270.6	12169.5	11962.5	11629.1	11219.7
5°	14167.8	14142.5	14050.5	13999.9	13864.3	13638.9	13294.0	13128.4	12799.5	12238.4	11504.9
7.5°	13648.1	13806.8	13933.2	14144.8	14411.6	14402.4	14112.6	13940.1	13572.2	12831.7	11822.2
10°	11640.6	11769.3	11976.3	12456.9	13436.5	14301.2	14641.5	14517.3	14223.0	13376.7	12128.1
12.5°	11247.3	11233.5	11270.3	11410.6	11923.4	13156.0	14551.8	14802.5	14742.7	13875.8	12417.8
15°	11456.6	11440.5	11435.9	11484.2	11608.4	12128.1	13878.1	14597.8	15060.0	14338.0	12663.9
17.5°	12043.0	11974.0	11937.2	11898.1	11861.3	11990.1	13068.6	14025.2	15108.3	14742.7	12868.5
20°	13047.9	12932.9	12797.2	12576.5	12369.5	12305.1	12728.3	13436.5	14935.9	15050.9	13001.9
22.5°	14310.4	14163.2	13928.6	13526.2	13105.4	12861.6	12896.1	13250.3	14678.3	15386.6	13064.0
25°	15729.2	15540.7	15227.9	14669.1	14050.5	13618.2	13392.8	13517.0	14561.0	15779.8	13135.3
27.5°	17249.3	17040.0	16630.7	15869.5	15168.1	14584.0	14124.1	14108.0	14761.1	16294.9	13250.3
30°	18755.5	18723.3	18189.8	17384.9	16455.9	15745.3	15083.0	14998.0	15319.9	17007.8	13477.9
32.5°	20765.3	20523.9	19870.8	19042.9	17971.3	17118.2	16334.0	16136.3	16177.7	17838.0	13829.8
35°	23299.5	23035.0	22115.2	20972.3	19774.2	18767.0	17900.1	17631.0	17529.8	19197.0	14423.1
37.5°	24936.8	24932.2	24355.0	23191.4	21905.9	20795.2	19852.4	19537.4	19332.7	20838.9	15342.9
40°	24980.5	25088.6	25164.5	25153.0	24237.7	23214.4	22377.4	21988.7	21512.7	23032.7	16531.8
42.5°	23639.8	23918.1	24587.3	25723.3	26266.0	25858.9	25153.0	24771.2	24063.0	25380.6	17980.5
45°	21827.8	22020.9	23191.4	25284.1	27365.2	28480.5	27942.4	27259.4	26325.8	27829.7	19279.8
47.5°	21016.0	21050.5	21807.1	24104.4	27448.0	30628.3	30954.9	29844.1	28381.6	29802.8	20296.2
50°	18589.9	18652.0	19696.0	22060.0	26477.5	31642.4	33981.1	32927.9	30623.7	31322.8	20666.5
52.5°	14011.4	14098.8	15423.4	18700.3	23810.0	31210.1	36147.3	35892.1	33079.7	32065.6	20687.2
55°	8267.0	8382.0	9646.8	12588.0	18727.9	28459.8	36308.3	37246.5	35018.2	32504.8	20655.0
57.5°	3861.0	3941.5	4665.9	6484.9	11647.5	22492.3	33884.5	36317.5	36087.5	32737.0	20882.6
60°	2051.2	2074.2	2249.0	2807.8	5263.8	14262.1	29154.3	32794.5	35112.5	33059.0	21160.9
62.5°	1568.3	1575.2	1566.0	1632.7	2212.2	6330.8	22037.0	26960.5	31187.1	32817.5	20852.7
65°	1359.1	1370.6	1306.2	1290.1	1418.9	2258.2	13091.6	19217.7	24506.8	29559.0	18753.2
67.5°	1218.8	1223.4	1145.2	1078.5	1101.5	1221.1	5164.9	10520.6	16221.3	21666.8	13592.9
70°	1122.2	1117.6	1032.5	926.7	896.8	834.8	1641.9	3856.4	7751.9	10987.5	6321.6
72.5°	993.4	995.7	954.3	816.4	745.1	584.1	761.2	1124.5	2313.4	2994.1	1480.9
75°	880.7	869.2	818.7	731.3	614.0	384.0	377.1	501.3	712.9	708.3	319.6
77.5°	637.0	625.5	641.6	600.2	471.4	248.4	188.6	241.5	289.7	280.6	89.7
80°	466.8	459.9	413.9	499.0	416.2	170.2	117.3	128.8	149.5	126.5	27.6
82.5°	319.6	317.3	292.0	276.0	236.9	103.5	73.6	80.5	96.6	71.3	13.8
85°	50.6	57.5	211.6	167.9	140.3	46.0	50.6	55.2	64.4	39.1	4.6
87.5°	0.0	0.0	98.9	87.4	27.6	18.4	29.9	32.2	32.2	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°	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1	10969.1
2.5°	11010.5	10780.5	10355.1	9915.9	9508.8	9023.6	8690.2	8439.5	8149.8	8071.6	8241.7
5°	11086.3	10651.7	9736.5	8740.8	7804.8	6767.7	5974.3	5346.6	4778.6	4585.4	4760.2
7.5°	11205.9	10559.7	9067.3	7427.7	5799.6	4180.7	3072.3	2343.3	1878.8	1740.8	1814.4
10°	11325.5	10426.4	8292.3	5873.2	3647.2	2035.1	1324.6	1057.8	958.9	938.2	949.7
12.5°	11424.4	10247.0	7347.2	4176.1	1950.1	1090.0	866.9	823.3	809.5	809.5	814.1
15°	11484.2	9975.6	6227.3	2656.0	1122.2	823.3	756.6	742.8	742.8	745.1	749.7
17.5°	11477.3	9630.7	5001.6	1607.4	839.4	729.0	689.9	678.4	676.1	680.7	683.0
20°	11392.2	9180.0	3771.3	1060.1	731.3	664.6	625.5	604.8	602.5	607.1	611.7
22.5°	11231.2	8623.5	2697.4	816.4	660.0	602.5	554.2	535.8	535.8	540.4	545.0
25°	11035.8	7942.8	1844.3	692.2	595.6	535.8	489.8	473.7	478.3	489.8	492.1
27.5°	10792.0	7177.0	1253.3	593.3	517.4	469.1	434.6	423.1	434.6	450.7	455.3
30°	10582.7	6379.1	894.5	512.8	439.2	404.7	384.0	384.0	400.1	430.0	436.9
32.5°	10421.8	5606.4	689.9	453.0	381.7	351.8	340.3	351.8	377.1	407.0	413.9
35°	10401.1	4969.4	584.1	404.7	340.3	310.4	305.8	326.5	351.8	374.8	379.4
37.5°	10559.7	4380.7	526.6	365.6	303.5	276.0	271.4	296.6	321.9	349.5	356.4
40°	10861.0	3918.5	485.2	328.8	273.7	243.8	234.6	253.0	287.4	324.2	333.4
42.5°	11251.9	3536.8	439.2	292.0	243.8	202.4	190.9	211.6	248.4	287.4	298.9
45°	11624.5	3207.9	388.6	250.7	204.7	156.4	151.8	179.4	197.8	236.9	246.1
47.5°	11829.1	2918.2	344.9	204.7	158.7	126.5	126.5	133.4	151.8	197.8	207.0
50°	11760.1	2685.9	298.9	151.8	110.4	96.6	96.6	94.3	121.9	158.7	165.6
52.5°	11622.2	2552.6	257.6	117.3	75.9	69.0	62.1	69.0	85.1	101.2	103.5
55°	11601.5	2529.6	216.2	94.3	52.9	46.0	34.5	34.5	34.5	32.2	27.6
57.5°	11762.4	2566.3	181.7	75.9	39.1	29.9	18.4	0.0	0.0	0.0	0.0
60°	11928.0	2605.4	156.4	52.9	27.6	16.1	2.3	0.0	0.0	0.0	0.0
62.5°	11652.0	2518.1	131.1	32.2	20.7	6.9	0.0	0.0	0.0	0.0	0.0
65°	10235.5	2143.2	103.5	23.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7280.5	1434.9	69.0	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3322.9	600.2	43.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	710.6	186.3	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	144.9	135.7	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.0	213.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.6	154.1	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)