

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: P191733

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191733
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-05-LED-E1-AFL-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24354 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 279
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

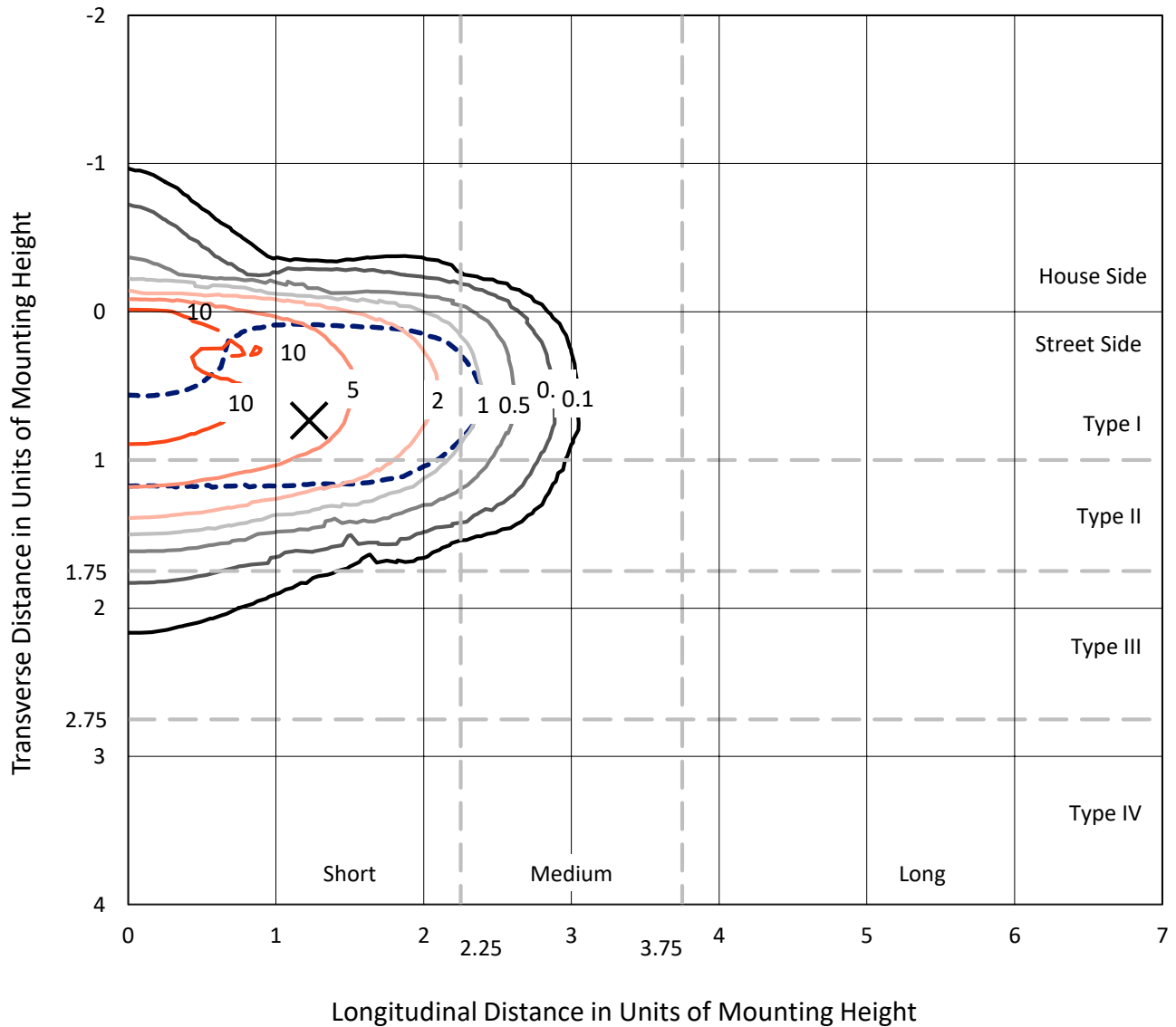


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

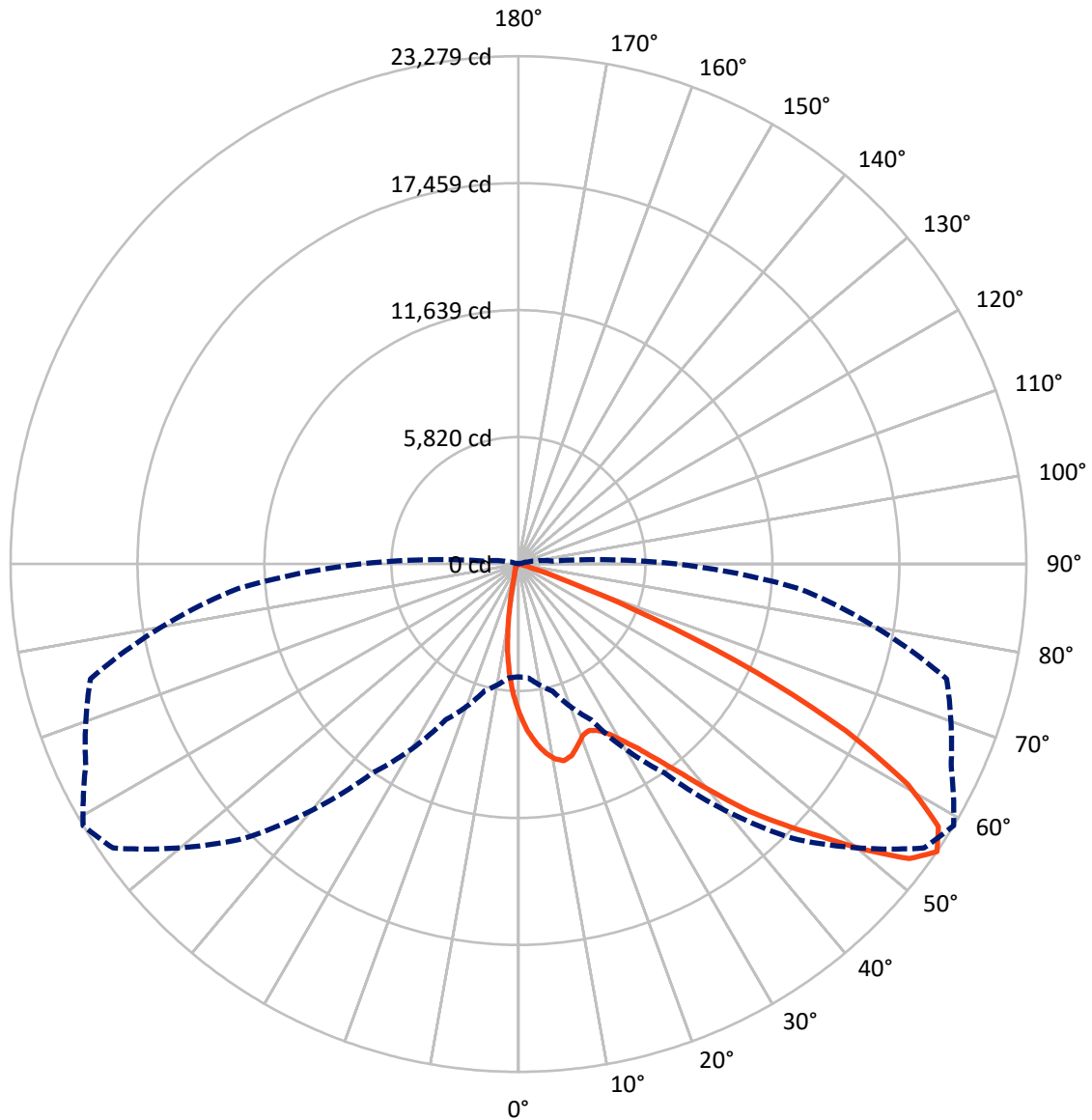


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - Full Cutoff

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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	1360.3	0.0	1360.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22993.7	0.0	22993.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	24354.0	0.0	24354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	2.4
10°-20°	1374.9	5.6
20°-30°	2339.5	9.6
30°-40°	4023.4	16.5
40°-50°	6211.7	25.5
50°-60°	6244.7	25.6
60°-70°	3202.3	13.1
70°-80°	347.0	1.4
80°-90°	36.3	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°	24354.0	100.0
0°-180°	24354.0	100.0

Coefficient of Utilization



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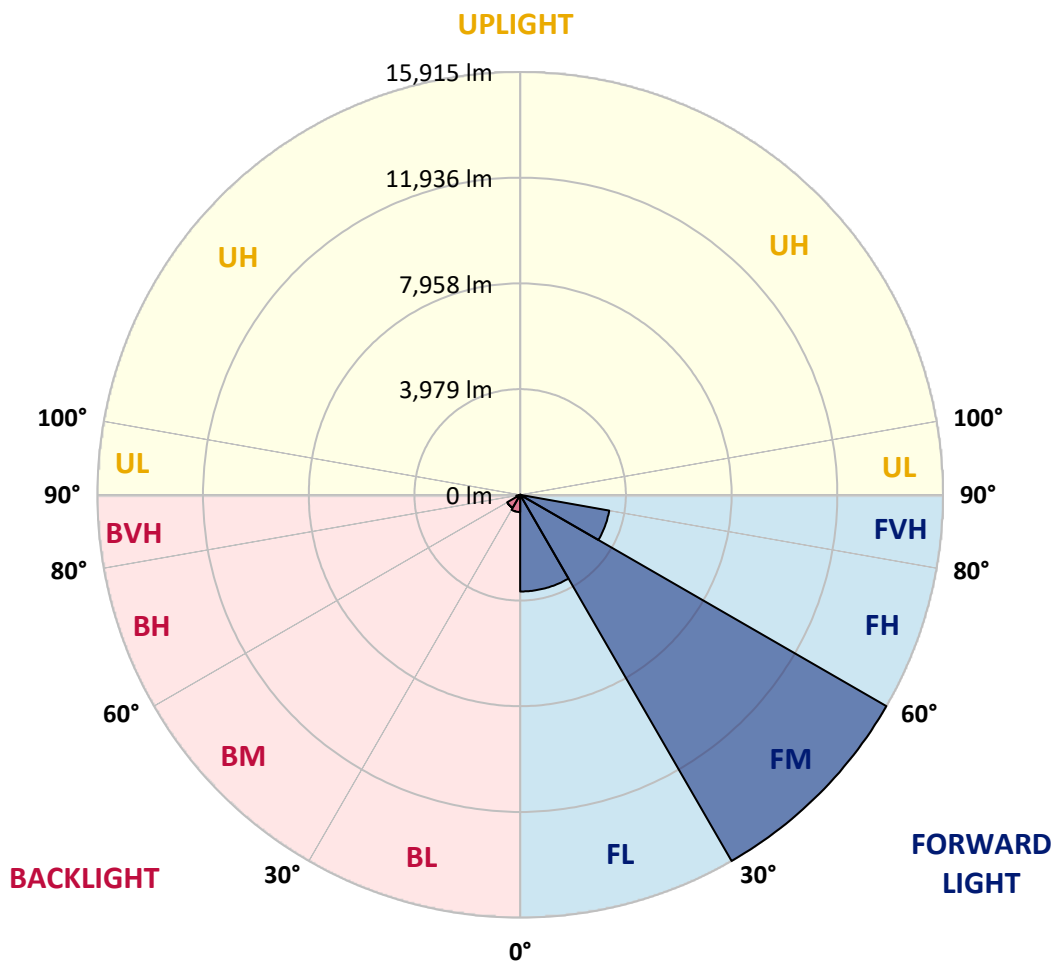
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3639.3	14.9			
FM	(30°-60°)	15915.2	65.3			
FH	(60°-80°)	3403.6	14.0			G2/5000
FVH	(80°-90°)	35.5	0.1			G1/100
BL	(0°-30°)	649.3	2.7	B2/1000		
BM	(30°-60°)	564.5	2.3	B1/1000		
BH	(60°-80°)	145.7	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°	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6
2.5°	8111.7	8025.5	7999.6	7982.3	7903.3	7804.1	7669.0	7605.8	7476.4	7268.0	7012.2
5°	8854.7	8838.9	8781.4	8749.8	8665.0	8524.2	8308.6	8205.1	7999.6	7648.9	7190.4
7.5°	8529.9	8629.1	8708.1	8840.4	9007.1	9001.3	8820.2	8712.5	8482.5	8019.7	7388.8
10°	7275.2	7355.7	7485.1	7785.4	8397.7	8938.1	9150.8	9073.2	8889.2	8360.3	7579.9
12.5°	7029.5	7020.8	7043.8	7131.5	7452.0	8222.4	9094.8	9251.4	9214.0	8672.2	7761.0
15°	7160.3	7150.2	7147.3	7177.5	7255.1	7579.9	8673.7	9123.5	9412.4	8961.1	7914.8
17.5°	7526.7	7483.6	7460.6	7436.2	7413.2	7493.7	8167.7	8765.6	9442.6	9214.0	8042.7
20°	8154.8	8083.0	7998.2	7860.2	7730.8	7690.6	7955.0	8397.7	9334.8	9406.6	8126.1
22.5°	8943.9	8851.9	8705.3	8453.8	8190.7	8038.4	8060.0	8281.3	9173.8	9616.5	8164.9
25°	9830.6	9712.8	9517.3	9168.1	8781.4	8511.2	8370.4	8448.0	9100.5	9862.2	8209.4
27.5°	10780.6	10649.8	10394.0	9918.3	9479.9	9114.9	8827.4	8817.4	9225.5	10184.2	8281.3
30°	11722.0	11701.9	11368.4	10865.4	10284.8	9840.7	9426.8	9373.6	9574.8	10629.7	8423.6
32.5°	12978.1	12827.2	12419.1	11901.7	11231.9	10698.7	10208.6	10085.0	10110.9	11148.6	8643.5
35°	14562.0	14396.7	13821.8	13107.5	12358.7	11729.2	11187.4	11019.2	10956.0	11998.0	9014.3
37.5°	15585.3	15582.4	15221.6	14494.4	13691.0	12996.8	12407.6	12210.7	12082.8	13024.1	9589.2
40°	15612.6	15680.1	15727.6	15720.4	15148.4	14508.8	13985.6	13742.7	13445.2	14395.2	10332.2
42.5°	14774.7	14948.6	15366.8	16076.8	16416.0	16161.6	15720.4	15481.8	15039.1	15862.7	11237.7
45°	13642.1	13762.9	14494.4	15802.3	17103.0	17800.0	17463.7	17036.9	16453.4	17393.3	12049.7
47.5°	13134.8	13156.4	13629.2	15065.0	17154.7	19142.4	19346.5	18652.3	17738.2	18626.4	12684.9
50°	11618.5	11657.3	12309.8	13787.3	16548.2	19776.2	21237.9	20579.6	19139.5	19576.4	12916.3
52.5°	8757.0	8811.6	9639.5	11687.5	14881.0	19506.0	22591.7	22432.2	20674.5	20040.7	12929.3
55°	5166.8	5238.7	6029.2	7867.4	11704.8	17787.1	22692.3	23278.7	21886.1	20315.2	12909.2
57.5°	2413.1	2463.4	2916.1	4053.0	7279.5	14057.5	21177.5	22698.1	22554.4	20460.3	13051.4
60°	1282.0	1296.4	1405.6	1754.9	3289.8	8913.7	18221.1	20496.3	21945.0	20661.5	13225.3
62.5°	980.2	984.5	978.8	1020.4	1382.6	3956.7	13772.9	16850.0	19491.6	20510.6	13032.8
65°	849.4	856.6	816.3	806.3	886.8	1411.4	8182.1	12010.9	15316.5	18474.1	11720.6
67.5°	761.7	764.6	715.7	674.1	688.4	763.2	3228.0	6575.3	10138.2	13541.5	8495.4
70°	701.4	698.5	645.3	579.2	560.5	521.7	1026.2	2410.2	4844.9	6867.1	3950.9
72.5°	620.9	622.3	596.4	510.2	465.7	365.1	475.7	702.8	1445.8	1871.3	925.6
75°	550.5	543.3	511.7	457.0	383.7	240.0	235.7	313.3	445.5	442.7	199.8
77.5°	398.1	390.9	401.0	375.1	294.6	155.2	117.9	150.9	181.1	175.3	56.1
80°	291.8	287.4	258.7	311.9	260.1	106.4	73.3	80.5	93.4	79.0	17.2
82.5°	199.8	198.3	182.5	172.5	148.0	64.7	46.0	50.3	60.4	44.6	8.6
85°	31.6	35.9	132.2	104.9	87.7	28.7	31.6	34.5	40.2	24.4	2.9
87.5°	0.0	0.0	61.8	54.6	17.2	11.5	18.7	20.1	20.1	12.9	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°	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6	6855.6
2.5°	6881.4	6737.7	6471.8	6197.3	5942.9	5639.7	5431.3	5274.6	5093.5	5044.7	5151.0
5°	6928.9	6657.2	6085.2	5462.9	4877.9	4229.8	3733.9	3341.5	2986.6	2865.8	2975.1
7.5°	7003.6	6599.7	5667.0	4642.2	3624.7	2612.9	1920.1	1464.5	1174.2	1088.0	1134.0
10°	7078.3	6516.4	5182.6	3670.7	2279.4	1271.9	827.8	661.1	599.3	586.4	593.6
12.5°	7140.1	6404.3	4591.9	2610.0	1218.8	681.2	541.8	514.5	505.9	505.9	508.8
15°	7177.5	6234.7	3892.0	1660.0	701.4	514.5	472.8	464.2	464.2	465.7	468.5
17.5°	7173.2	6019.1	3126.0	1004.6	524.6	455.6	431.2	424.0	422.5	425.4	426.9
20°	7120.0	5737.4	2357.0	662.6	457.0	415.4	390.9	378.0	376.6	379.4	382.3
22.5°	7019.4	5389.6	1685.9	510.2	412.5	376.6	346.4	334.9	334.9	337.7	340.6
25°	6897.2	4964.2	1152.7	432.6	372.2	334.9	306.1	296.1	298.9	306.1	307.6
27.5°	6744.9	4485.6	783.3	370.8	323.4	293.2	271.6	264.4	271.6	281.7	284.6
30°	6614.1	3986.9	559.1	320.5	274.5	253.0	240.0	240.0	250.1	268.8	273.1
32.5°	6513.5	3504.0	431.2	283.1	238.6	219.9	212.7	219.9	235.7	254.4	258.7
35°	6500.6	3105.8	365.1	253.0	212.7	194.0	191.2	204.1	219.9	234.3	237.1
37.5°	6599.7	2737.9	329.1	228.5	189.7	172.5	169.6	185.4	201.2	218.5	222.8
40°	6788.0	2449.0	303.3	205.5	171.0	152.3	146.6	158.1	179.7	202.6	208.4
42.5°	7032.3	2210.5	274.5	182.5	152.3	126.5	119.3	132.2	155.2	179.7	186.8
45°	7265.2	2004.9	242.9	156.7	127.9	97.7	94.9	112.1	123.6	148.0	153.8
47.5°	7393.1	1823.8	215.6	127.9	99.2	79.0	79.0	83.4	94.9	123.6	129.4
50°	7350.0	1678.7	186.8	94.9	69.0	60.4	60.4	58.9	76.2	99.2	103.5
52.5°	7263.7	1595.3	161.0	73.3	47.4	43.1	38.8	43.1	53.2	63.2	64.7
55°	7250.8	1580.9	135.1	58.9	33.1	28.7	21.6	21.6	21.6	20.1	17.2
57.5°	7351.4	1603.9	113.5	47.4	24.4	18.7	11.5	0.0	0.0	0.0	0.0
60°	7454.9	1628.4	97.7	33.1	17.2	10.1	1.4	0.0	0.0	0.0	0.0
62.5°	7282.4	1573.8	81.9	20.1	12.9	4.3	0.0	0.0	0.0	0.0	0.0
65°	6397.1	1339.5	64.7	14.4	8.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4550.3	896.8	43.1	8.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2076.8	375.1	27.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	444.1	116.4	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	90.5	84.8	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.7	133.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.2	96.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.4	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)