

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: P193466

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193466  
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-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 25746 lumens  
Efficiency: N/A  
Efficacy: 77.1 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): 334  
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

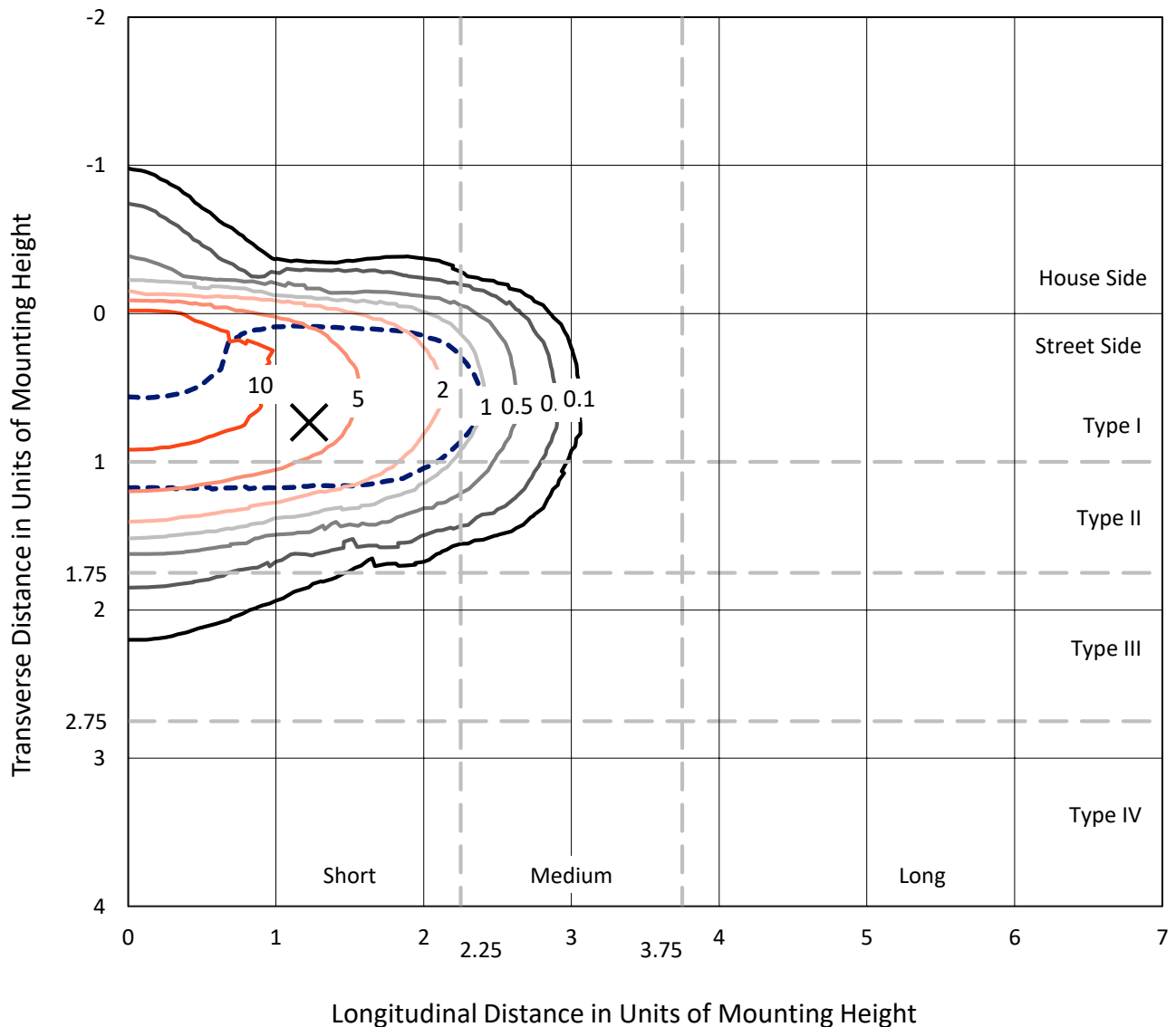


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

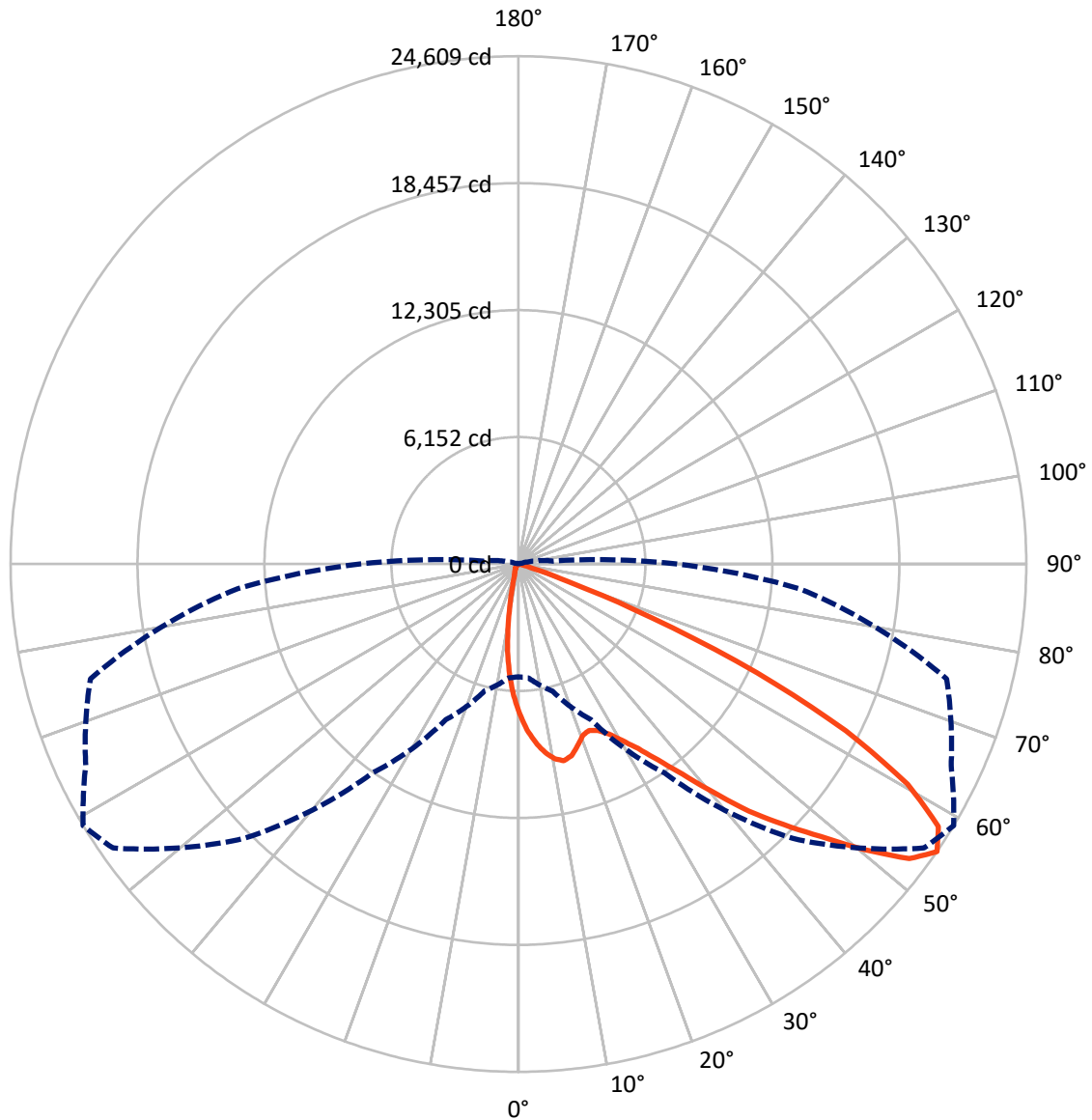


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	1438.1	0.0	1438.1
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	24307.9	0.0	24307.9
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	25746.0	0.0	25746.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	607.0	2.4
10°-20°	1453.4	5.6
20°-30°	2473.2	9.6
30°-40°	4253.4	16.5
40°-50°	6566.7	25.5
50°-60°	6601.6	25.6
60°-70°	3385.4	13.1
70°-80°	366.9	1.4
80°-90°	38.4	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°	25746.0	100.0
0°-180°	25746.0	100.0



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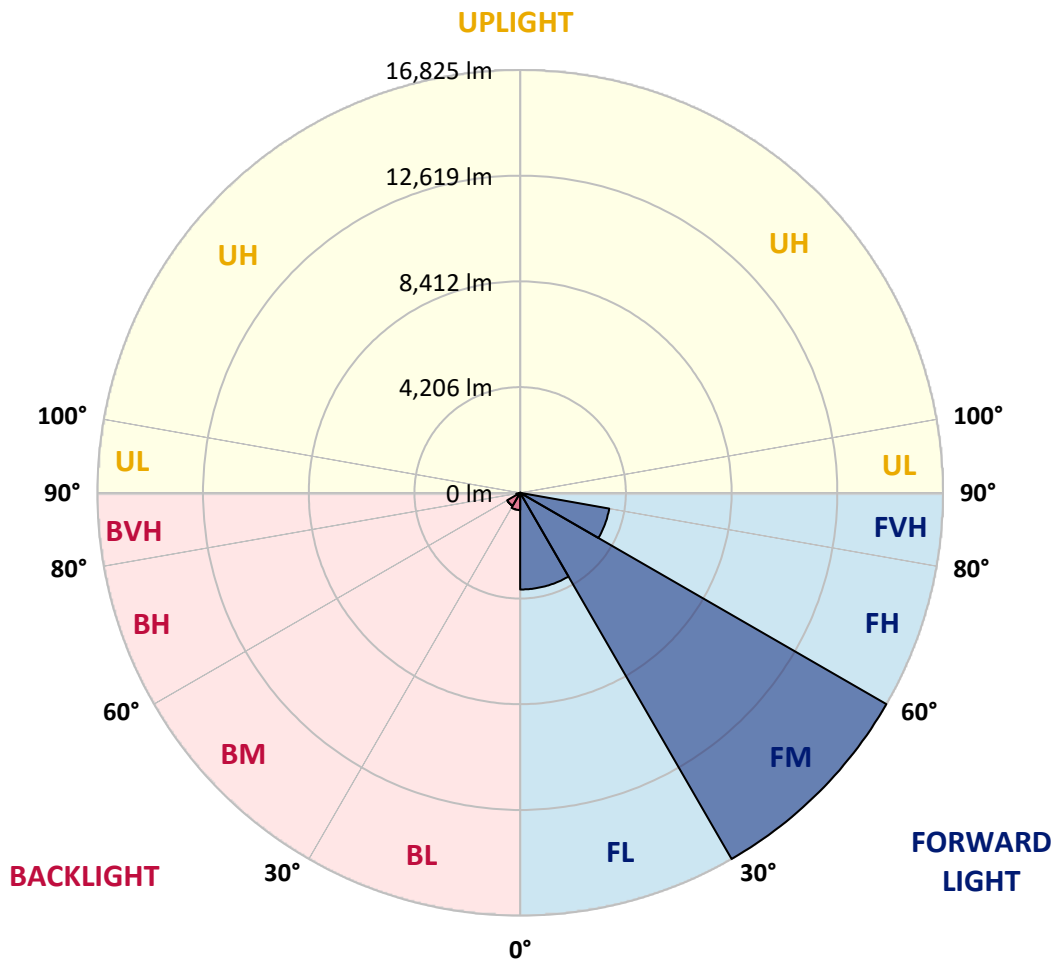
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3847.3	14.9			
FM (30°-60°)	16824.9	65.3			
FH (60°-80°)	3598.2	14.0			G2/5000
FVH (80°-90°)	37.6	0.1			G1/100
BL (0°-30°)	686.4	2.7	B2/1000		
BM (30°-60°)	596.8	2.3	B1/1000		
BH (60°-80°)	154.1	0.6	B1/500		G1/500
BVH (80°-90°)	0.8	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°	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4
2.5°	8575.3	8484.2	8456.8	8438.6	8355.0	8250.2	8107.4	8040.5	7903.8	7683.5	7413.0
5°	9360.9	9344.1	9283.4	9249.9	9160.3	9011.4	8783.5	8674.1	8456.8	8086.1	7601.4
7.5°	9017.5	9122.3	9205.9	9345.7	9521.9	9515.8	9324.4	9210.4	8967.3	8478.1	7811.1
10°	7691.1	7776.1	7912.9	8230.4	8877.7	9449.0	9673.8	9591.8	9397.3	8838.2	8013.2
12.5°	7431.3	7422.1	7446.4	7539.1	7877.9	8692.3	9614.6	9780.2	9740.7	9167.9	8204.6
15°	7569.5	7558.9	7555.8	7587.7	7669.8	8013.2	9169.4	9645.0	9950.4	9473.3	8367.2
17.5°	7957.0	7911.4	7887.1	7861.2	7836.9	7922.0	8634.6	9266.7	9982.3	9740.7	8502.4
20°	8620.9	8545.0	8455.3	8309.4	8172.7	8130.2	8409.7	8877.7	9868.3	9944.3	8590.5
22.5°	9455.1	9357.8	9202.8	8936.9	8658.9	8497.8	8520.6	8754.6	9698.2	10166.1	8631.6
25°	10392.5	10267.9	10061.3	9692.1	9283.4	8997.7	8848.8	8930.9	9620.7	10425.9	8678.7
27.5°	11396.8	11258.5	10988.1	10485.2	10021.8	9635.9	9332.0	9321.3	9752.9	10766.3	8754.6
30°	12392.0	12370.7	12018.2	11486.5	10872.6	10403.1	9965.6	9909.3	10122.1	11237.3	8905.0
32.5°	13719.9	13560.4	13128.9	12581.9	11873.9	11310.2	10792.1	10661.4	10688.8	11785.8	9137.5
35°	15394.3	15219.6	14611.8	13856.7	13065.1	12399.6	11826.8	11649.0	11582.2	12683.7	9529.5
37.5°	16476.1	16473.0	16091.7	15322.9	14473.5	13739.7	13116.7	12908.6	12773.4	13768.6	10137.3
40°	16504.9	16576.4	16626.5	16618.9	16014.2	15338.1	14785.0	14528.2	14213.7	15218.0	10922.8
42.5°	15619.1	15803.0	16245.1	16995.7	17354.3	17085.3	16618.9	16366.7	15898.7	16769.3	11880.0
45°	14421.9	14549.5	15322.9	16705.5	18080.5	18817.4	18461.9	18010.6	17393.8	18387.4	12738.4
47.5°	13885.5	13908.3	14408.2	15926.1	18135.2	20236.5	20452.3	19718.4	18752.1	19691.1	13410.0
50°	12282.6	12323.6	13013.4	14575.3	17494.1	20906.6	22451.8	21755.9	20233.5	20695.4	13654.6
52.5°	9257.5	9315.3	10190.4	12355.5	15731.6	20620.9	23883.0	23714.4	21856.2	21186.1	13668.3
55°	5462.1	5538.1	6373.8	8317.0	12373.8	18803.8	23989.4	24609.3	23137.0	21476.3	13647.0
57.5°	2551.0	2604.2	3082.8	4284.6	7695.6	14861.0	22388.0	23995.4	23843.5	21629.8	13797.4
60°	1355.3	1370.5	1485.9	1855.2	3477.8	9423.1	19262.6	21667.8	23199.3	21842.5	13981.3
62.5°	1036.2	1040.8	1034.7	1078.8	1461.6	4182.8	14560.1	17813.1	20605.7	21683.0	13777.7
65°	897.9	905.5	863.0	852.4	937.5	1492.0	8649.8	12697.4	16192.0	19530.0	12390.5
67.5°	805.3	808.3	756.6	712.6	727.8	806.8	3412.5	6951.1	10717.7	14315.5	8981.0
70°	741.5	738.4	682.2	612.3	592.6	551.5	1084.8	2548.0	5121.8	7259.6	4176.8
72.5°	656.4	657.9	630.5	539.4	492.3	385.9	502.9	743.0	1528.5	1978.2	978.5
75°	581.9	574.3	540.9	483.2	405.7	253.7	249.2	331.2	471.0	468.0	211.2
77.5°	420.9	413.3	423.9	396.6	311.5	164.1	124.6	159.5	191.4	185.4	59.3
80°	308.4	303.9	273.5	329.7	275.0	112.4	77.5	85.1	98.8	83.6	18.2
82.5°	211.2	209.7	193.0	182.3	156.5	68.4	48.6	53.2	63.8	47.1	9.1
85°	33.4	38.0	139.8	110.9	92.7	30.4	33.4	36.5	42.5	25.8	3.0
87.5°	0.0	0.0	65.3	57.7	18.2	12.2	19.8	21.3	21.3	13.7	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°	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4	7247.4
2.5°	7274.8	7122.8	6841.7	6551.5	6282.6	5962.0	5741.7	5576.1	5384.7	5333.0	5445.4
5°	7324.9	7037.7	6433.0	5775.1	5156.7	4471.5	3947.3	3532.5	3157.3	3029.6	3145.1
7.5°	7403.9	6977.0	5990.9	4907.6	3831.9	2762.2	2029.9	1548.2	1241.3	1150.2	1198.8
10°	7482.9	6888.8	5478.9	3880.5	2409.7	1344.6	875.2	698.9	633.6	619.9	627.5
12.5°	7548.2	6770.3	4854.4	2759.2	1288.4	720.2	572.8	543.9	534.8	534.8	537.9
15°	7587.7	6591.0	4114.5	1754.9	741.5	543.9	499.9	490.8	490.8	492.3	495.3
17.5°	7583.2	6363.1	3304.6	1062.0	554.6	481.6	455.8	448.2	446.7	449.7	451.3
20°	7527.0	6065.3	2491.8	700.4	483.2	439.1	413.3	399.6	398.1	401.1	404.2
22.5°	7420.6	5697.6	1782.2	539.4	436.1	398.1	366.2	354.0	354.0	357.1	360.1
25°	7291.5	5247.9	1218.5	457.3	393.5	354.0	323.6	313.0	316.0	323.6	325.1
27.5°	7130.4	4742.0	828.1	392.0	341.9	310.0	287.2	279.6	287.2	297.8	300.8
30°	6992.2	4214.7	591.0	338.8	290.2	267.4	253.7	253.7	264.4	284.1	288.7
32.5°	6885.8	3704.2	455.8	299.3	252.2	232.5	224.9	232.5	249.2	268.9	273.5
35°	6872.1	3283.4	385.9	267.4	224.9	205.1	202.1	215.8	232.5	247.7	250.7
37.5°	6977.0	2894.4	347.9	241.6	200.6	182.3	179.3	196.0	212.7	230.9	235.5
40°	7176.0	2589.0	320.6	217.3	180.8	161.1	155.0	167.1	189.9	214.2	220.3
42.5°	7434.3	2336.8	290.2	193.0	161.1	133.7	126.1	139.8	164.1	189.9	197.5
45°	7680.4	2119.5	256.8	165.6	135.2	103.3	100.3	118.5	130.7	156.5	162.6
47.5°	7815.7	1928.1	227.9	135.2	104.8	83.6	83.6	88.1	100.3	130.7	136.7
50°	7770.1	1774.6	197.5	100.3	72.9	63.8	63.8	62.3	80.5	104.8	109.4
52.5°	7678.9	1686.5	170.2	77.5	50.1	45.6	41.0	45.6	56.2	66.9	68.4
55°	7665.2	1671.3	142.8	62.3	34.9	30.4	22.8	22.8	22.8	21.3	18.2
57.5°	7771.6	1695.6	120.0	50.1	25.8	19.8	12.2	0.0	0.0	0.0	0.0
60°	7881.0	1721.4	103.3	34.9	18.2	10.6	1.5	0.0	0.0	0.0	0.0
62.5°	7698.7	1663.7	86.6	21.3	13.7	4.6	0.0	0.0	0.0	0.0	0.0
65°	6762.7	1416.1	68.4	15.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4810.3	948.1	45.6	9.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2195.5	396.6	28.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	469.5	123.1	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	95.7	89.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.4	141.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.2	101.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	15.2	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)