

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: P191716

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191716  
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-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 615mA 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: 25730 lumens  
Efficiency: N/A  
Efficacy: 100.1 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): 257  
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

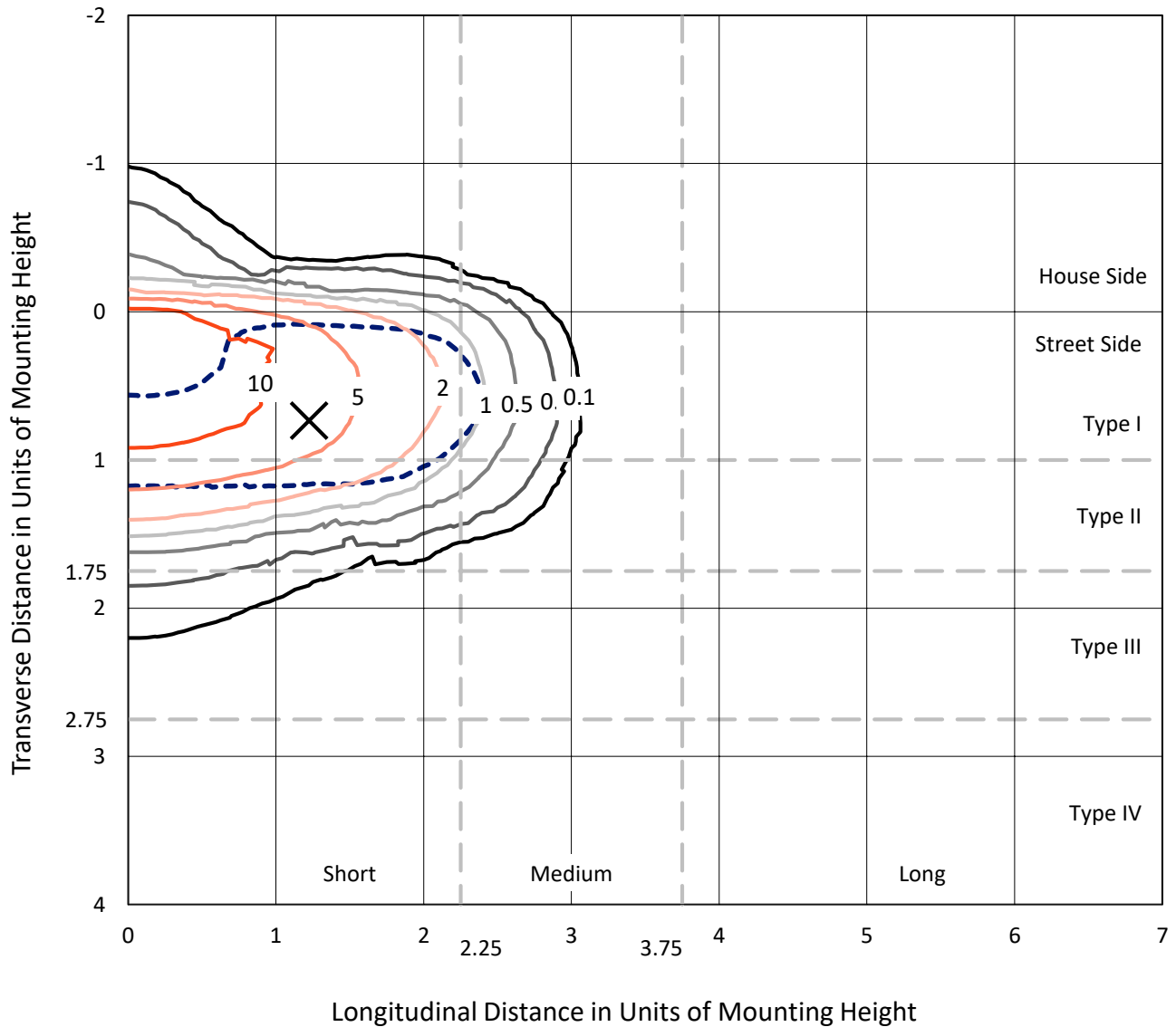


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

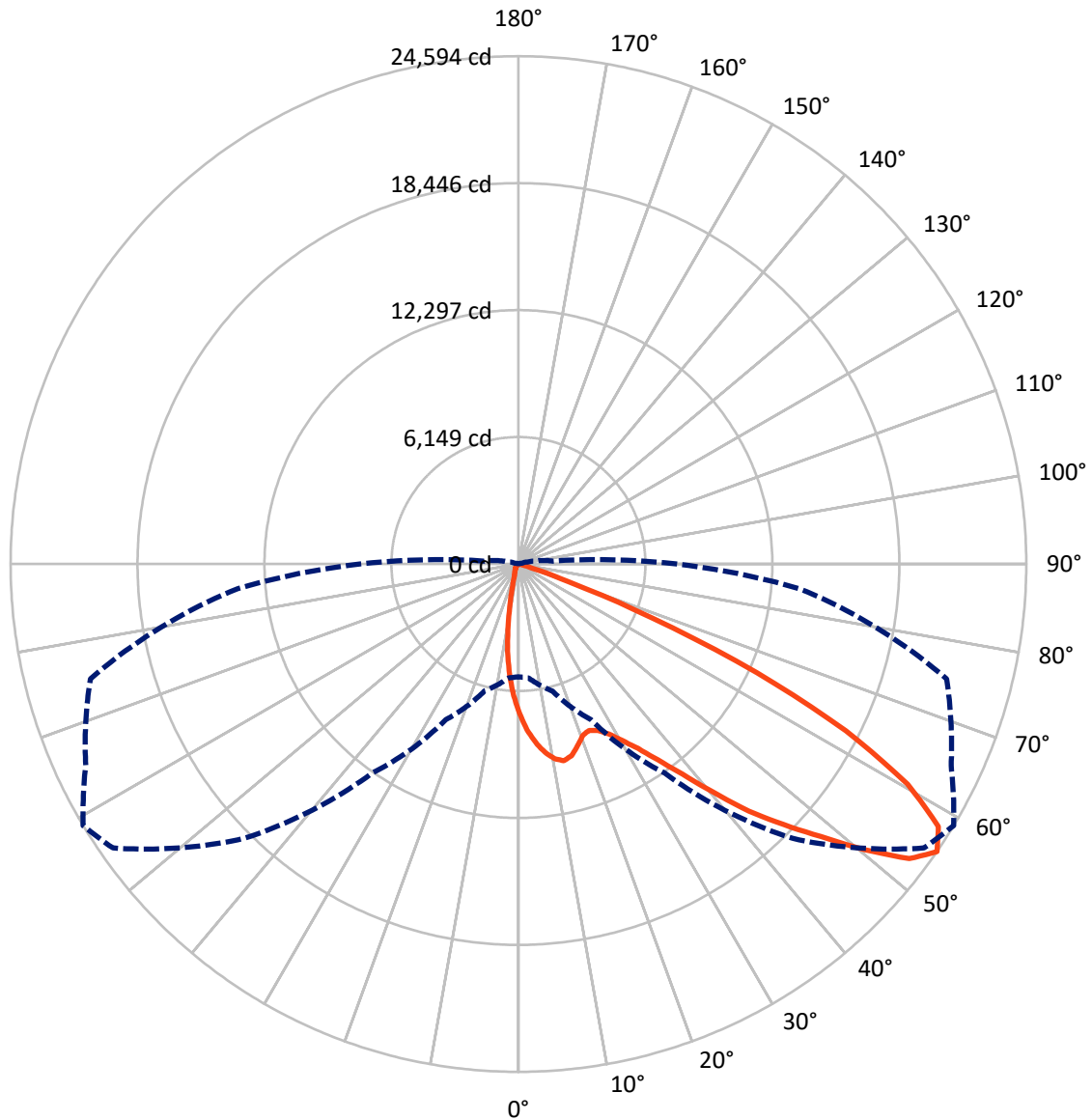


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - Full Cutoff

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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	1437.2	0.0	1437.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	24292.8	0.0	24292.8
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	25730.0	0.0	25730.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.7	2.4
10°-20°	1452.5	5.6
20°-30°	2471.7	9.6
30°-40°	4250.7	16.5
40°-50°	6562.6	25.5
50°-60°	6597.5	25.6
60°-70°	3383.3	13.1
70°-80°	366.6	1.4
80°-90°	38.3	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°	25730.0	100.0
0°-180°	25730.0	100.0

**Coefficient of Utilization**



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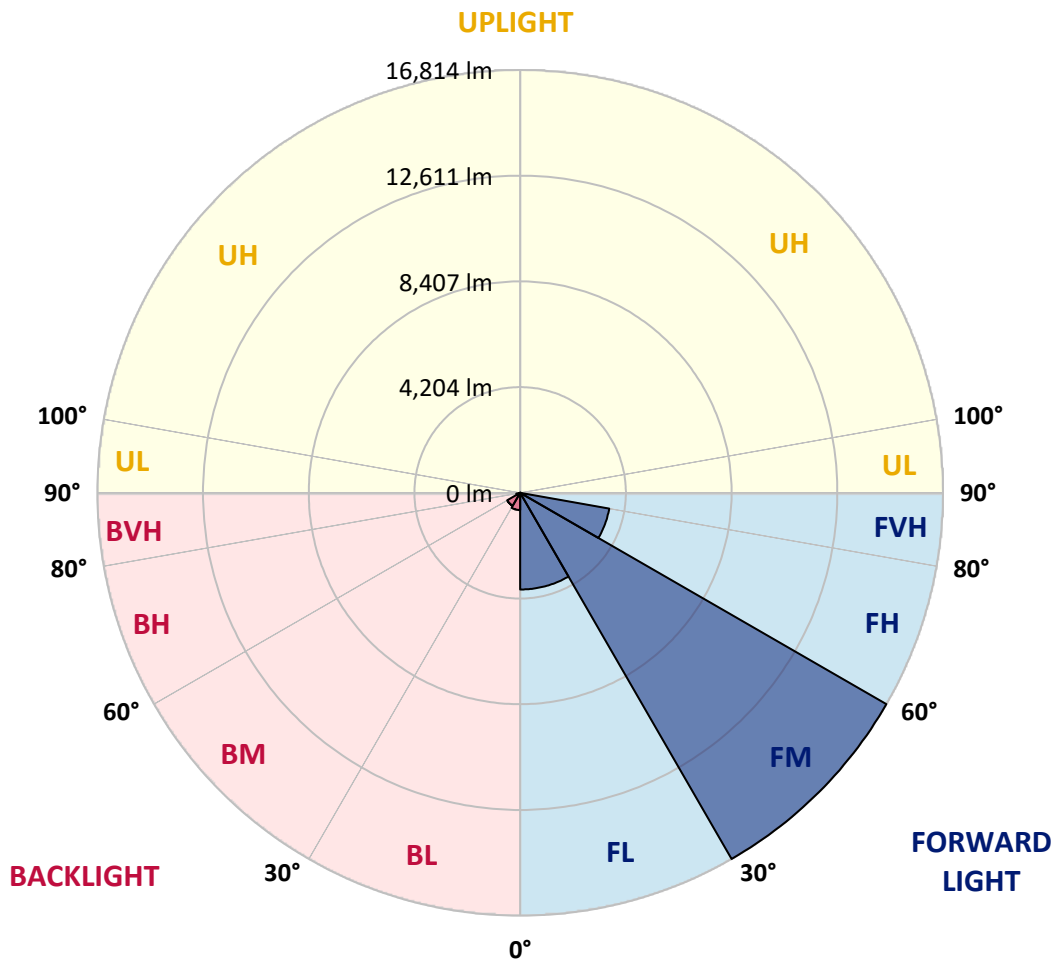
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3844.9	14.9			
FM (30°-60°)	16814.4	65.3			
FH (60°-80°)	3595.9	14.0			G2/5000
FVH (80°-90°)	37.5	0.1			G1/100
BL (0°-30°)	686.0	2.7	B2/1000		
BM (30°-60°)	596.4	2.3	B1/1000		
BH (60°-80°)	154.0	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°	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9
2.5°	8570.0	8478.9	8451.6	8433.3	8349.8	8245.1	8102.3	8035.5	7898.9	7678.7	7408.4
5°	9355.0	9338.3	9277.6	9244.2	9154.6	9005.8	8778.0	8668.7	8451.6	8081.1	7596.7
7.5°	9011.9	9116.6	9200.2	9339.9	9516.0	9509.9	9318.6	9204.7	8961.8	8472.8	7806.2
10°	7686.3	7771.3	7908.0	8225.3	8872.2	9443.1	9667.8	9585.8	9391.5	8832.7	8008.2
12.5°	7426.6	7417.5	7441.8	7534.4	7873.0	8686.9	9608.6	9774.1	9734.6	9162.2	8199.5
15°	7564.8	7554.2	7551.1	7583.0	7665.0	8008.2	9163.7	9639.0	9944.2	9467.4	8362.0
17.5°	7952.0	7906.5	7882.2	7856.3	7832.1	7917.1	8629.2	9260.9	9976.1	9734.6	8497.1
20°	8615.6	8539.6	8450.1	8304.3	8167.6	8125.1	8404.5	8872.2	9862.2	9938.1	8585.2
22.5°	9449.2	9352.0	9197.1	8931.4	8653.5	8492.6	8515.3	8749.2	9692.1	10159.8	8626.2
25°	10386.0	10261.5	10055.0	9686.1	9277.6	8992.1	8843.3	8925.3	9614.7	10419.5	8673.3
27.5°	11389.7	11251.6	10981.3	10478.7	10015.6	9629.9	9326.2	9315.6	9746.8	10759.6	8749.2
30°	12384.3	12363.0	12010.8	11479.3	10865.9	10396.7	9959.4	9903.2	10115.8	11230.3	8899.5
32.5°	13711.4	13552.0	13120.7	12574.1	11866.5	11303.2	10785.4	10654.8	10682.1	11778.4	9131.8
35°	15384.7	15210.1	14602.7	13848.1	13057.0	12391.9	11819.4	11641.8	11575.0	12675.8	9523.6
37.5°	16465.8	16462.8	16081.7	15313.3	14464.5	13731.1	13108.6	12900.6	12765.4	13760.0	10131.0
40°	16494.7	16566.1	16616.2	16608.6	16004.2	15328.5	14775.8	14519.2	14204.9	15208.6	10916.0
42.5°	15609.4	15793.2	16235.0	16985.1	17343.5	17074.7	16608.6	16356.5	15888.8	16758.9	11872.6
45°	14412.9	14540.5	15313.3	16695.1	18069.3	18805.7	18450.4	17999.4	17383.0	18376.0	12730.5
47.5°	13876.9	13899.7	14399.3	15916.2	18124.0	20223.9	20439.6	19706.2	18740.4	19678.8	13401.6
50°	12275.0	12316.0	13005.3	14566.3	17483.2	20893.6	22437.8	21742.4	20220.9	20682.5	13646.1
52.5°	9251.8	9309.5	10184.1	12347.9	15721.8	20608.1	23868.2	23699.6	21842.6	21173.0	13659.8
55°	5458.7	5534.7	6369.8	8311.9	12366.1	18792.1	23974.5	24594.0	23122.6	21463.0	13638.5
57.5°	2549.4	2602.6	3080.9	4282.0	7690.8	14851.7	22374.0	23980.5	23828.7	21616.3	13788.8
60°	1354.4	1369.6	1485.0	1854.0	3475.7	9417.3	19250.6	21654.3	23184.9	21828.9	13972.6
62.5°	1035.6	1040.1	1034.0	1078.1	1460.7	4180.2	14551.1	17802.1	20592.9	21669.5	13769.1
65°	897.4	905.0	862.5	851.8	936.9	1491.1	8644.4	12689.5	16181.9	19517.9	12382.8
67.5°	804.8	807.8	756.2	712.1	727.3	806.3	3410.4	6946.8	10711.0	14306.6	8975.4
70°	741.0	738.0	681.8	611.9	592.2	551.2	1084.2	2546.4	5118.6	7255.0	4174.2
72.5°	656.0	657.5	630.1	539.0	492.0	385.7	502.6	742.5	1527.5	1977.0	977.9
75°	581.6	574.0	540.6	482.9	405.4	253.6	249.0	331.0	470.7	467.7	211.1
77.5°	420.6	413.0	423.6	396.3	311.3	164.0	124.5	159.4	191.3	185.2	59.2
80°	308.2	303.7	273.3	329.5	274.8	112.4	77.4	85.0	98.7	83.5	18.2
82.5°	211.1	209.5	192.8	182.2	156.4	68.3	48.6	53.1	63.8	47.1	9.1
85°	33.4	38.0	139.7	110.8	92.6	30.4	33.4	36.4	42.5	25.8	3.0
87.5°	0.0	0.0	65.3	57.7	18.2	12.1	19.7	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°	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9	7242.9
2.5°	7270.2	7118.4	6837.5	6547.5	6278.7	5958.3	5738.1	5572.6	5381.3	5329.7	5442.0
5°	7320.3	7033.4	6429.0	5771.5	5153.5	4468.7	3944.9	3530.3	3155.3	3027.7	3143.1
7.5°	7399.3	6972.6	5987.2	4904.5	3829.5	2760.5	2028.6	1547.3	1240.6	1149.5	1198.0
10°	7478.3	6884.6	5475.5	3878.1	2408.2	1343.8	874.6	698.5	633.2	619.5	627.1
12.5°	7543.6	6766.1	4851.4	2757.5	1287.6	719.7	572.4	543.6	534.5	534.5	537.5
15°	7583.0	6586.9	4111.9	1753.8	741.0	543.6	499.6	490.5	490.5	492.0	495.0
17.5°	7578.5	6359.2	3302.6	1061.4	554.2	481.3	455.5	447.9	446.4	449.5	451.0
20°	7522.3	6061.6	2490.2	700.0	482.9	438.8	413.0	399.3	397.8	400.9	403.9
22.5°	7416.0	5694.1	1781.1	539.0	435.8	397.8	365.9	353.8	353.8	356.8	359.9
25°	7286.9	5244.7	1217.8	457.0	393.3	353.8	323.4	312.8	315.8	323.4	324.9
27.5°	7126.0	4739.0	827.5	391.8	341.6	309.8	287.0	279.4	287.0	297.6	300.6
30°	6987.8	4212.1	590.7	338.6	290.0	267.2	253.6	253.6	264.2	283.9	288.5
32.5°	6881.5	3701.9	455.5	299.1	252.1	232.3	224.7	232.3	249.0	268.8	273.3
35°	6867.9	3281.3	385.7	267.2	224.7	205.0	202.0	215.6	232.3	247.5	250.5
37.5°	6972.6	2892.6	347.7	241.4	200.4	182.2	179.2	195.9	212.6	230.8	235.4
40°	7171.5	2587.4	320.4	217.1	180.7	161.0	154.9	167.0	189.8	214.1	220.2
42.5°	7429.7	2335.3	290.0	192.8	161.0	133.6	126.0	139.7	164.0	189.8	197.4
45°	7675.7	2118.2	256.6	165.5	135.1	103.3	100.2	118.4	130.6	156.4	162.5
47.5°	7810.8	1926.9	227.8	135.1	104.8	83.5	83.5	88.1	100.2	130.6	136.7
50°	7765.2	1773.5	197.4	100.2	72.9	63.8	63.8	62.3	80.5	104.8	109.3
52.5°	7674.1	1685.5	170.1	77.4	50.1	45.6	41.0	45.6	56.2	66.8	68.3
55°	7660.5	1670.3	142.7	62.3	34.9	30.4	22.8	22.8	22.8	21.3	18.2
57.5°	7766.8	1694.6	120.0	50.1	25.8	19.7	12.1	0.0	0.0	0.0	0.0
60°	7876.1	1720.4	103.3	34.9	18.2	10.6	1.5	0.0	0.0	0.0	0.0
62.5°	7693.9	1662.7	86.6	21.3	13.7	4.6	0.0	0.0	0.0	0.0	0.0
65°	6758.5	1415.2	68.3	15.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4807.3	947.5	45.6	9.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2194.1	396.3	28.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	469.2	123.0	19.7	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	141.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.2	101.7	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)