

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: P191725

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191725  
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-07-LED-E1-AFL-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 27846 lumens  
Efficiency: N/A  
Efficacy: 94.4 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): 295  
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

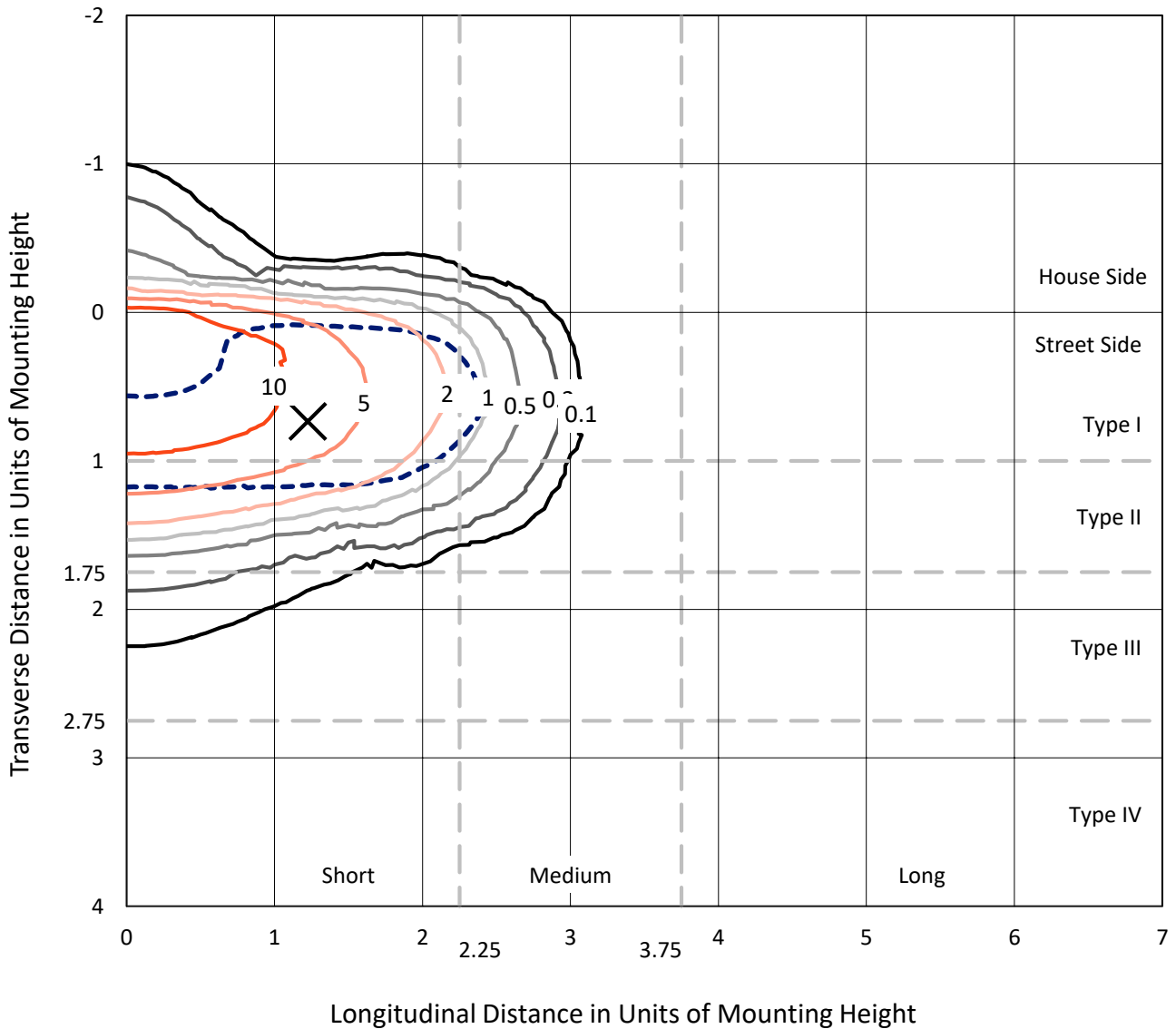


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

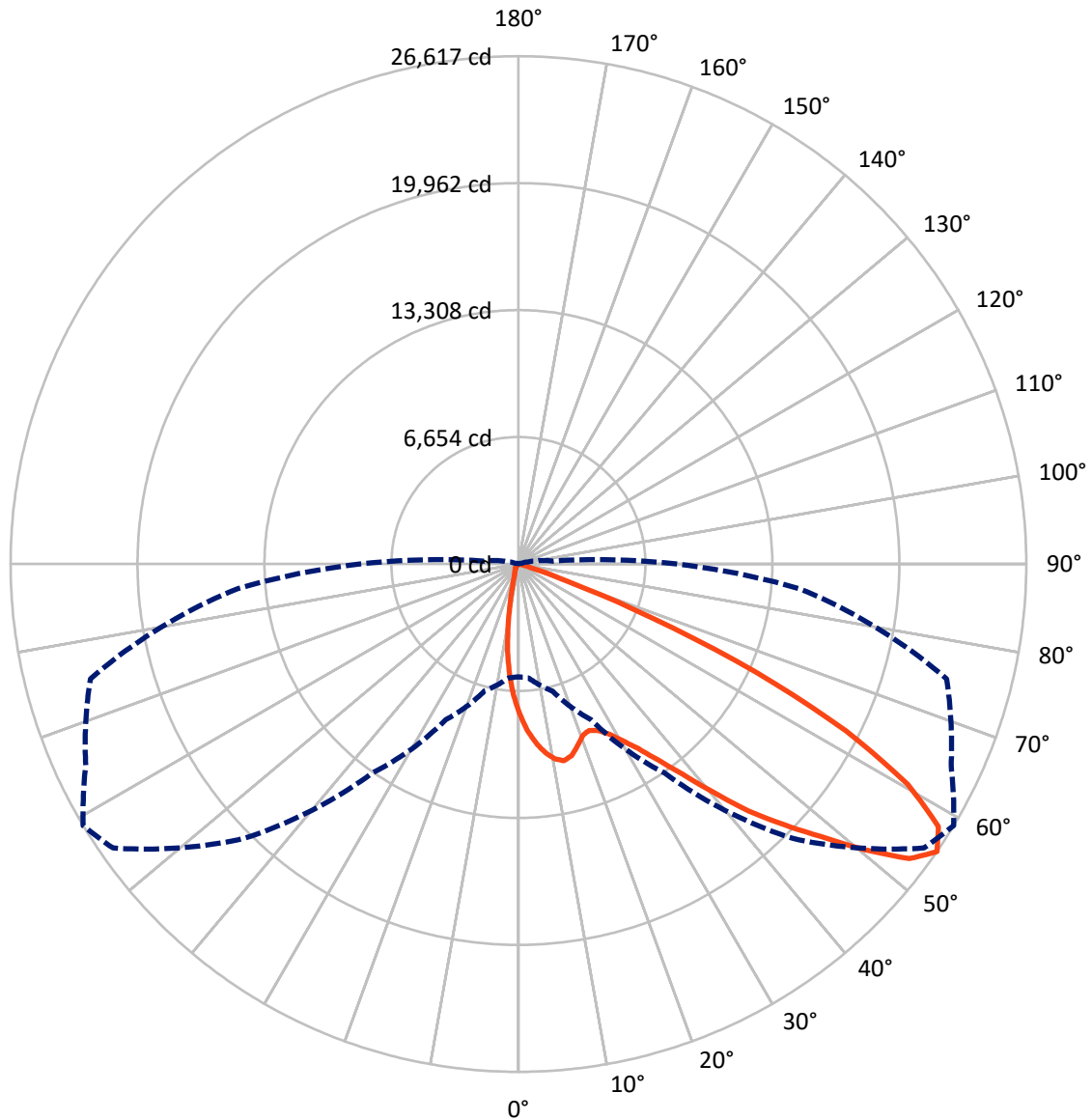


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	1555.4	0.0	1555.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	26290.6	0.0	26290.6
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	27846.0	0.0	27846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.6	2.4
10°-20°	1572.0	5.6
20°-30°	2674.9	9.6
30°-40°	4600.3	16.5
40°-50°	7102.3	25.5
50°-60°	7140.1	25.6
60°-70°	3661.5	13.1
70°-80°	396.8	1.4
80°-90°	41.5	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°	27846.0	100.0
0°-180°	27846.0	100.0

**Coefficient of Utilization**



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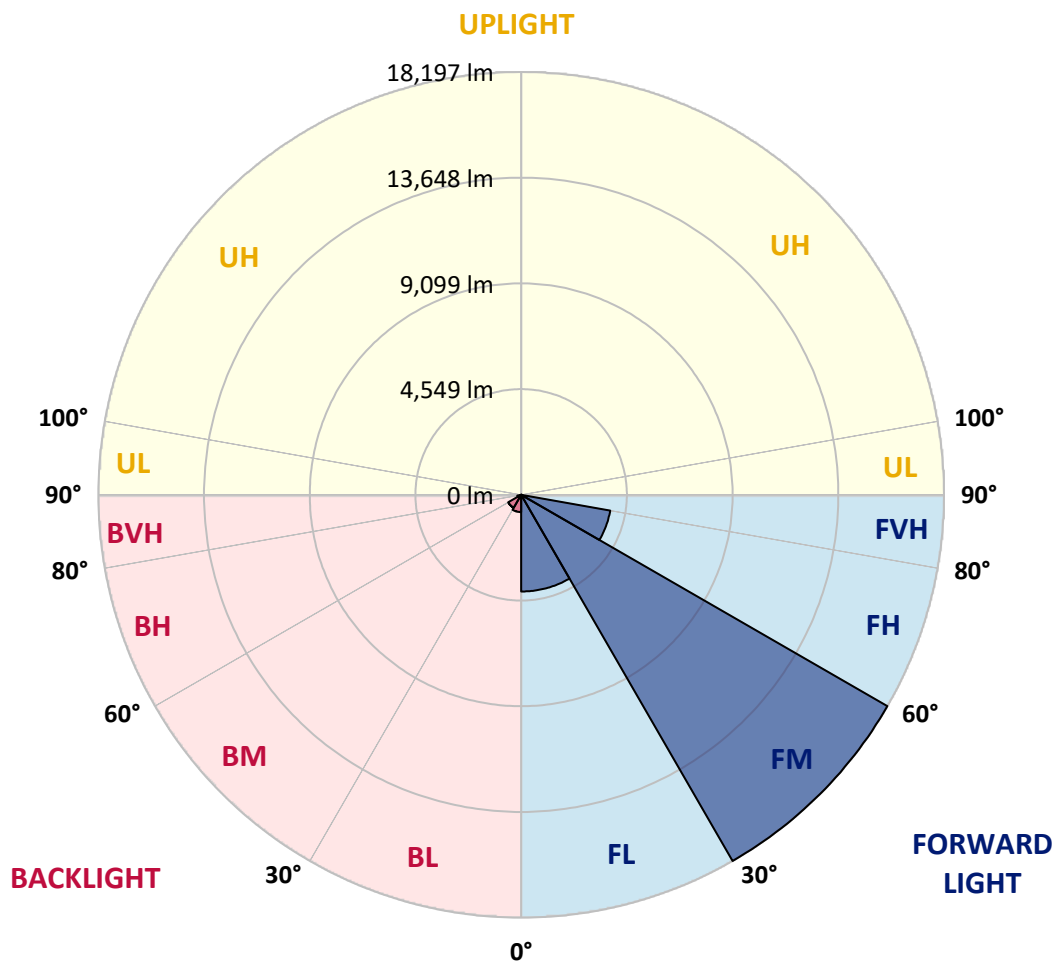
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4161.1	14.9			
FM	(30°-60°)	18197.2	65.3			
FH	(60°-80°)	3891.7	14.0			G2/5000
FVH	(80°-90°)	40.6	0.1			G1/100
BL	(0°-30°)	742.4	2.7	B2/1000		
BM	(30°-60°)	645.5	2.3	B1/1000		
BH	(60°-80°)	166.6	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5
2.5°	9274.8	9176.2	9146.6	9126.9	9036.5	8923.1	8768.7	8696.4	8548.5	8310.2	8017.7
5°	10124.4	10106.3	10040.6	10004.4	9907.5	9746.4	9499.9	9381.6	9146.6	8745.7	8221.4
7.5°	9753.0	9866.4	9956.8	10107.9	10298.6	10292.0	10084.9	9961.7	9698.8	9169.6	8448.2
10°	8318.4	8410.4	8558.3	8901.8	9601.8	10219.7	10462.9	10374.2	10163.8	9559.1	8666.8
12.5°	8037.4	8027.5	8053.8	8154.1	8520.5	9401.3	10398.8	10577.9	10535.2	9915.7	8873.8
15°	8186.9	8175.4	8172.1	8206.6	8295.4	8666.8	9917.3	10431.7	10762.0	10246.0	9049.7
17.5°	8606.0	8556.7	8530.4	8502.4	8476.1	8568.2	9338.9	10022.5	10796.5	10535.2	9195.9
20°	9324.1	9241.9	9145.0	8987.2	8839.3	8793.3	9095.7	9601.8	10673.2	10755.4	9291.2
22.5°	10226.3	10121.1	9953.5	9665.9	9365.2	9191.0	9215.6	9468.7	10489.2	10995.3	9335.6
25°	11240.2	11105.4	10881.9	10482.6	10040.6	9731.6	9570.6	9659.3	10405.4	11276.3	9386.5
27.5°	12326.4	12176.9	11884.4	11340.4	10839.2	10421.8	10093.2	10081.7	10548.4	11644.4	9468.7
30°	13402.8	13379.8	12998.5	12423.4	11759.5	11251.7	10778.4	10717.6	10947.7	12153.9	9631.4
32.5°	14839.0	14666.5	14199.8	13608.2	12842.4	12232.7	11672.4	11531.0	11560.6	12747.1	9882.8
35°	16649.9	16461.0	15803.6	14986.9	14130.8	13411.0	12791.5	12599.2	12526.9	13718.3	10306.8
37.5°	17820.0	17816.7	17404.2	16572.7	15654.1	14860.4	14186.6	13961.5	13815.2	14891.6	10964.1
40°	17851.2	17928.4	17982.6	17974.4	17320.4	16589.1	15991.0	15713.2	15373.1	16459.3	11813.7
42.5°	16893.1	17092.0	17570.2	18382.0	18769.8	18478.9	17974.4	17701.6	17195.5	18137.1	12849.0
45°	15598.2	15736.3	16572.7	18068.1	19555.3	20352.3	19967.8	19479.7	18812.5	19887.2	13777.4
47.5°	15018.1	15042.8	15583.4	17225.1	19614.4	21887.1	22120.5	21326.8	20281.6	21297.2	14503.8
50°	13284.4	13328.8	14074.9	15764.2	18921.0	22611.8	24283.1	23530.4	21883.8	22383.4	14768.4
52.5°	10012.6	10075.1	11021.6	13363.3	17014.7	22302.9	25831.1	25648.7	23638.9	22914.2	14783.1
55°	5907.7	5989.8	6893.7	8995.4	13383.0	20337.5	25946.1	26616.6	25024.2	23228.1	14760.1
57.5°	2759.1	2816.6	3334.3	4634.1	8323.3	16073.1	24214.0	25952.7	25788.3	23394.0	14922.8
60°	1465.8	1482.3	1607.1	2006.5	3761.5	10191.8	20833.8	23435.1	25091.6	23624.1	15121.7
62.5°	1120.7	1125.7	1119.1	1166.7	1580.9	4524.0	15747.8	19266.1	22286.5	23451.6	14901.5
65°	971.2	979.4	933.4	921.9	1013.9	1613.7	9355.3	13733.1	17512.7	21123.0	13401.1
67.5°	870.9	874.2	818.4	770.7	787.1	872.6	3690.9	7518.1	11591.8	15483.2	9713.6
70°	801.9	798.6	737.8	662.3	640.9	596.5	1173.3	2755.8	5539.6	7851.7	4517.4
72.5°	709.9	711.5	682.0	583.4	532.4	417.4	543.9	803.6	1653.2	2139.6	1058.3
75°	629.4	621.2	585.0	522.6	438.8	274.4	269.5	358.2	509.4	506.1	228.4
77.5°	455.2	447.0	458.5	428.9	336.9	177.5	134.8	172.5	207.1	200.5	64.1
80°	333.6	328.7	295.8	356.6	297.4	121.6	83.8	92.0	106.8	90.4	19.7
82.5°	228.4	226.8	208.7	197.2	169.3	73.9	52.6	57.5	69.0	50.9	9.9
85°	36.2	41.1	151.2	120.0	100.2	32.9	36.2	39.4	46.0	27.9	3.3
87.5°	0.0	0.0	70.7	62.4	19.7	13.1	21.4	23.0	23.0	14.8	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°	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5	7838.5
2.5°	7868.1	7703.8	7399.8	7085.9	6795.1	6448.3	6210.0	6030.9	5823.9	5768.0	5889.6
5°	7922.4	7611.8	6957.7	6246.2	5577.4	4836.2	4269.3	3820.7	3414.8	3276.7	3401.6
7.5°	8007.8	7546.0	6479.5	5307.9	4144.4	2987.5	2195.5	1674.5	1342.6	1244.0	1296.6
10°	8093.3	7450.7	5925.7	4197.0	2606.3	1454.3	946.5	755.9	685.3	670.5	678.7
12.5°	8163.9	7322.6	5250.3	2984.2	1393.5	778.9	619.5	588.3	578.4	578.4	581.7
15°	8206.6	7128.6	4450.1	1898.0	801.9	588.3	540.6	530.8	530.8	532.4	535.7
17.5°	8201.7	6882.1	3574.2	1148.7	599.8	520.9	493.0	484.8	483.1	486.4	488.1
20°	8140.9	6560.1	2695.0	757.6	522.6	474.9	447.0	432.2	430.5	433.8	437.1
22.5°	8025.9	6162.4	1927.6	583.4	471.6	430.5	396.0	382.9	382.9	386.2	389.5
25°	7886.2	5676.0	1317.9	494.6	425.6	382.9	350.0	338.5	341.8	350.0	351.7
27.5°	7712.0	5128.7	895.6	424.0	369.7	335.2	310.6	302.4	310.6	322.1	325.4
30°	7562.5	4558.5	639.2	366.5	313.9	289.2	274.4	274.4	285.9	307.3	312.2
32.5°	7447.4	4006.4	493.0	323.7	272.8	251.4	243.2	251.4	269.5	290.9	295.8
35°	7432.7	3551.2	417.4	289.2	243.2	221.8	218.6	233.3	251.4	267.9	271.1
37.5°	7546.0	3130.5	376.3	261.3	216.9	197.2	193.9	212.0	230.1	249.8	254.7
40°	7761.3	2800.2	346.7	235.0	195.6	174.2	167.6	180.8	205.4	231.7	238.3
42.5°	8040.7	2527.4	313.9	208.7	174.2	144.6	136.4	151.2	177.5	205.4	213.6
45°	8306.9	2292.4	277.7	179.1	146.3	111.7	108.5	128.2	141.3	169.3	175.8
47.5°	8453.1	2085.3	246.5	146.3	113.4	90.4	90.4	95.3	108.5	141.3	147.9
50°	8403.8	1919.4	213.6	108.5	78.9	69.0	69.0	67.4	87.1	113.4	118.3
52.5°	8305.2	1824.1	184.0	83.8	54.2	49.3	44.4	49.3	60.8	72.3	73.9
55°	8290.5	1807.6	154.5	67.4	37.8	32.9	24.6	24.6	24.6	23.0	19.7
57.5°	8405.5	1833.9	129.8	54.2	27.9	21.4	13.1	0.0	0.0	0.0	0.0
60°	8523.8	1861.9	111.7	37.8	19.7	11.5	1.6	0.0	0.0	0.0	0.0
62.5°	8326.6	1799.4	93.7	23.0	14.8	4.9	0.0	0.0	0.0	0.0	0.0
65°	7314.3	1531.6	73.9	16.4	9.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5202.7	1025.4	49.3	9.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2374.6	428.9	31.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	507.8	133.1	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	103.5	97.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.9	152.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.7	110.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.4	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)