

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: P269615

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269615  
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-09-LED-E1-AFL-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 24936.5 lumens  
Efficiency: N/A  
Efficacy: 86.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 290  
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

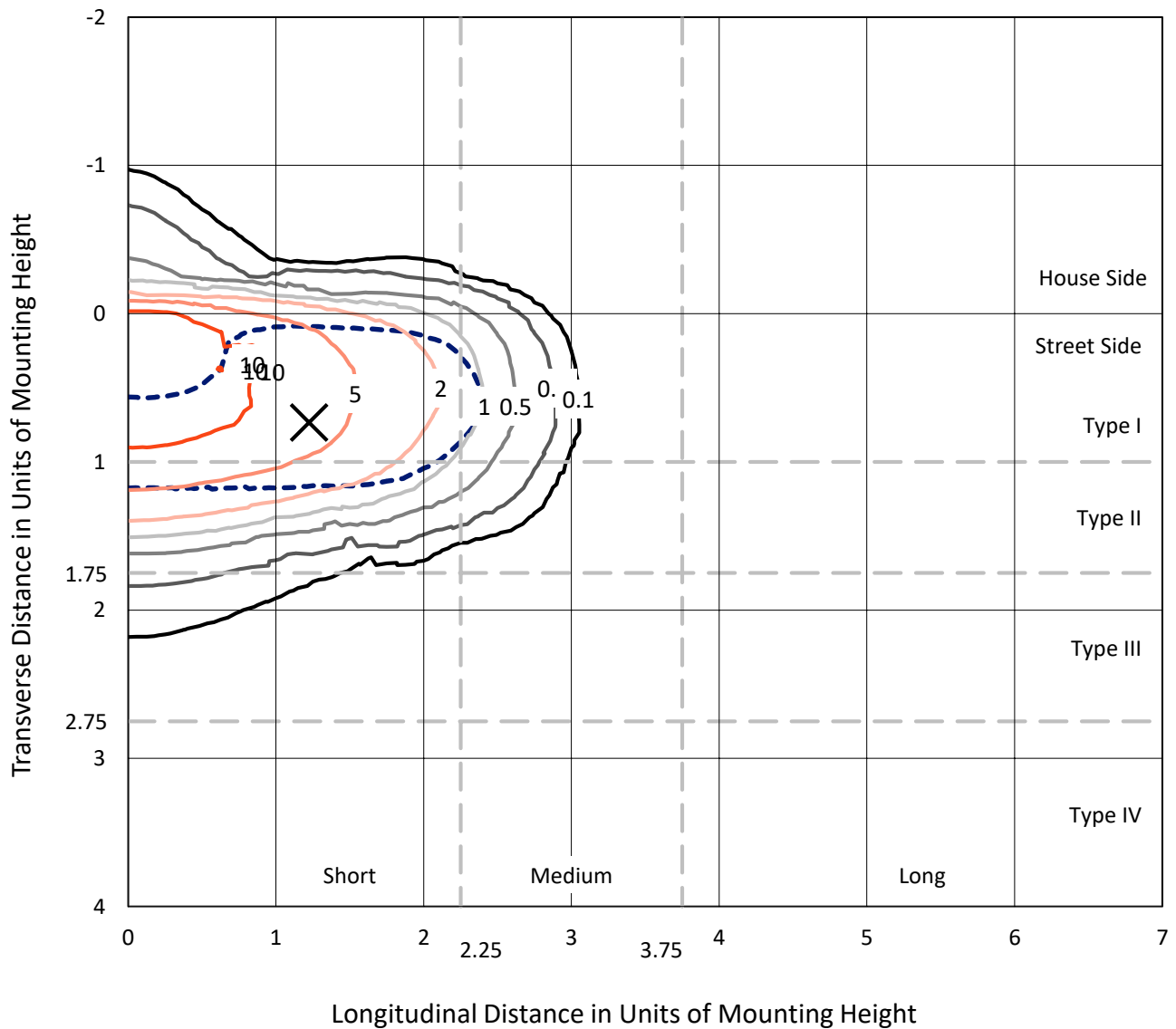


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

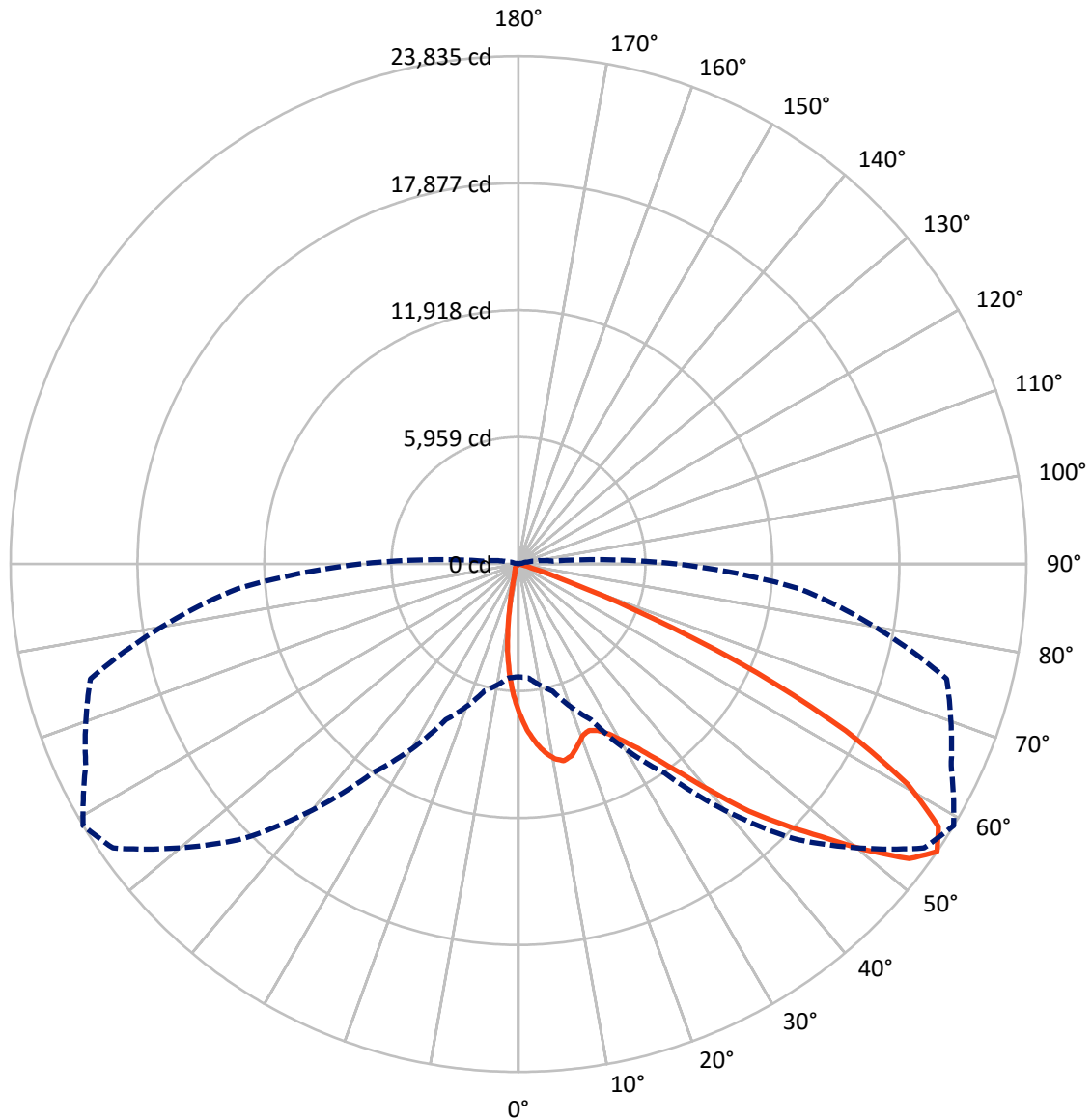


Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - Full Cutoff

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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	1392.8	0.0	1392.8
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	23543.7	0.0	23543.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	24936.5	0.0	24936.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.0	2.4
10°-20°	1407.7	5.6
20°-30°	2395.4	9.6
30°-40°	4119.6	16.5
40°-50°	6360.2	25.5
50°-60°	6394.1	25.6
60°-70°	3278.9	13.1
70°-80°	355.3	1.4
80°-90°	37.1	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°	24936.5	100.0
0°-180°	24936.5	100.0



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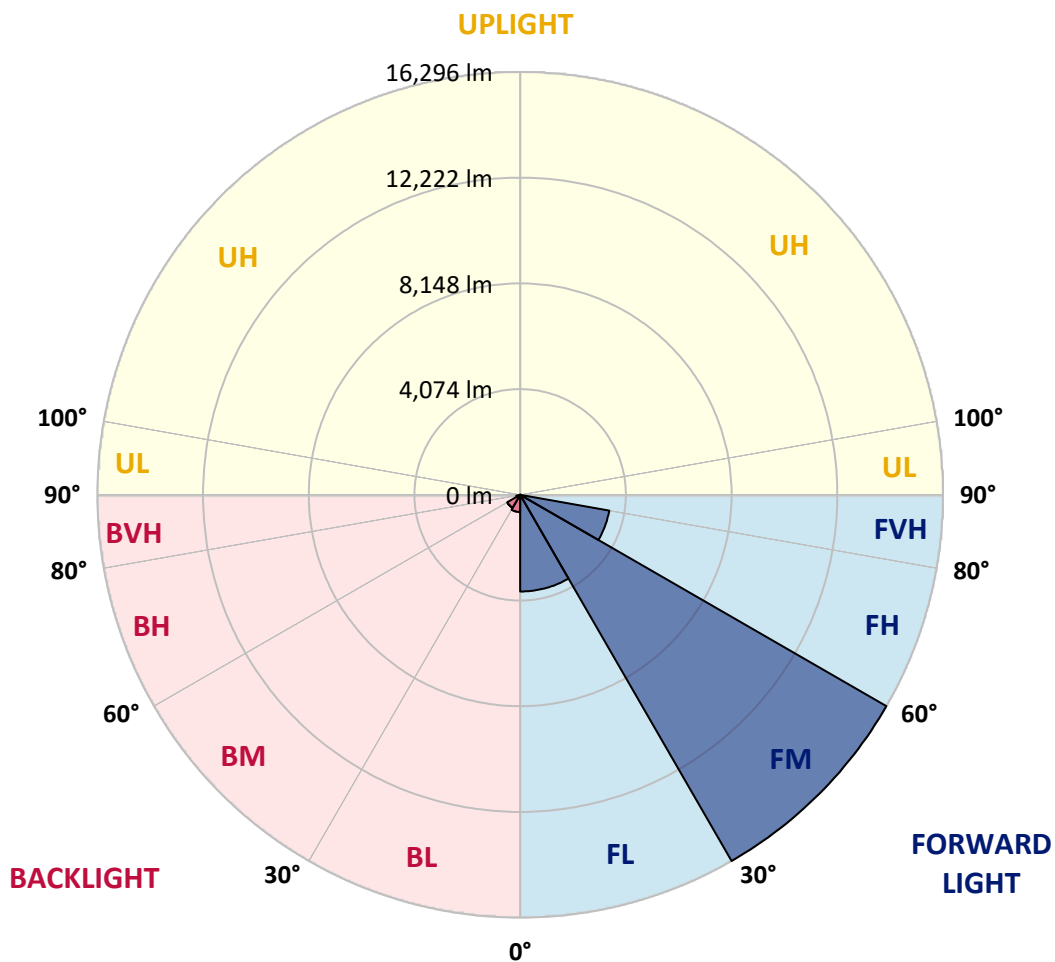
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3726.3	14.9			
FM	(30°-60°)	16295.9	65.3			
FH	(60°-80°)	3485.1	14.0			G2/5000
FVH	(80°-90°)	36.4	0.1			G1/100
BL	(0°-30°)	664.8	2.7	B2/1000		
BM	(30°-60°)	578.0	2.3	B1/1000		
BH	(60°-80°)	149.2	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°	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5
2.5°	8305.6	8217.4	8190.9	8173.3	8092.3	7990.9	7852.4	7787.6	7655.3	7441.9	7180.0
5°	9066.6	9050.3	8991.5	8959.1	8872.3	8728.0	8507.3	8401.4	8190.9	7831.9	7362.4
7.5°	8734.0	8835.5	8916.4	9051.9	9222.4	9216.6	9031.2	8920.9	8685.4	8211.5	7565.4
10°	7449.3	7531.7	7664.1	7971.6	8598.5	9151.9	9369.7	9290.2	9101.8	8560.3	7761.3
12.5°	7197.6	7188.7	7212.3	7302.1	7630.3	8419.0	9312.3	9472.6	9434.4	8879.7	7946.6
15°	7331.4	7321.1	7318.3	7349.2	7428.7	7761.3	8881.2	9341.7	9637.6	9175.5	8104.1
17.5°	7706.7	7662.6	7639.0	7614.0	7590.5	7673.0	8363.1	8975.2	9668.4	9434.4	8235.1
20°	8349.8	8276.3	8189.5	8048.2	7915.8	7874.5	8145.3	8598.5	9558.1	9631.6	8320.5
22.5°	9157.9	9063.5	8913.5	8656.0	8386.7	8230.7	8252.6	8479.5	9393.2	9846.5	8360.2
25°	10065.8	9945.0	9745.0	9387.4	8991.5	8714.7	8570.5	8650.0	9318.2	10098.1	8405.8
27.5°	11038.5	10904.5	10642.6	10155.5	9706.6	9332.9	9038.6	9028.2	9446.1	10427.7	8479.5
30°	12002.3	11981.8	11640.3	11125.2	10530.8	10076.1	9652.2	9597.9	9803.8	10884.0	8625.0
32.5°	13288.5	13133.9	12716.0	12186.3	11500.6	10954.7	10452.8	10326.2	10352.6	11415.2	8850.2
35°	14910.2	14741.0	14152.3	13420.9	12654.3	12009.7	11454.9	11282.7	11218.0	12285.0	9229.8
37.5°	15958.0	15955.1	15585.8	14841.1	14018.5	13307.8	12704.3	12502.7	12371.7	13335.7	9818.6
40°	15986.0	16055.1	16103.7	16096.4	15510.7	14855.8	14320.2	14071.4	13766.9	14739.6	10579.2
42.5°	15128.0	15306.1	15734.4	16461.4	16808.6	16548.1	16096.4	15852.1	15398.8	16242.1	11506.4
45°	13968.5	14092.0	14841.1	16180.2	17512.1	18225.8	17881.4	17444.4	16846.9	17809.3	12338.0
47.5°	13449.0	13471.1	13955.2	15425.3	17565.0	19600.3	19809.2	19098.4	18162.6	19071.9	12988.4
50°	11896.4	11936.1	12604.3	14117.0	16944.0	20249.2	21745.8	21071.8	19597.3	20044.7	13225.2
52.5°	8966.4	9022.3	9870.0	11967.0	15237.0	19972.6	23132.1	22968.8	21169.0	20520.1	13238.5
55°	5290.4	5364.0	6173.3	8055.6	11984.6	18212.5	23235.1	23835.4	22409.6	20801.1	13217.9
57.5°	2470.8	2522.4	2985.8	4149.9	7453.6	14393.7	21684.0	23240.9	23093.8	20949.7	13363.5
60°	1312.7	1327.3	1439.3	1796.8	3368.6	9126.9	18657.0	20986.6	22469.8	21155.8	13541.7
62.5°	1003.6	1008.1	1002.1	1044.9	1415.6	4051.4	14102.3	17253.0	19957.9	21001.3	13344.5
65°	869.6	877.0	835.9	825.5	907.9	1445.2	8377.9	12298.2	15682.9	18916.0	12000.8
67.5°	780.0	783.0	732.8	690.2	704.9	781.4	3305.3	6732.5	10380.6	13865.3	8698.6
70°	718.1	715.2	660.8	593.1	573.9	534.2	1050.7	2467.9	4960.8	7031.4	4045.4
72.5°	635.7	637.2	610.7	522.5	476.8	373.8	487.2	719.6	1480.4	1916.1	947.7
75°	563.6	556.3	523.9	467.9	392.9	245.7	241.4	320.9	456.2	453.3	204.5
77.5°	407.7	400.3	410.5	384.0	301.7	158.9	120.6	154.5	185.4	179.5	57.4
80°	298.7	294.4	264.9	319.3	266.3	109.0	75.1	82.5	95.7	80.9	17.6
82.5°	204.5	203.0	186.8	176.5	151.5	66.3	47.2	51.6	61.9	45.6	8.9
85°	32.3	36.8	135.4	107.4	89.8	29.5	32.3	35.4	41.2	25.1	3.0
87.5°	0.0	0.0	63.3	56.0	17.6	11.8	19.1	20.7	20.7	13.2	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°	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5	7019.5
2.5°	7046.0	6898.9	6626.5	6345.5	6085.1	5774.6	5561.1	5400.8	5215.4	5165.3	5274.2
5°	7094.5	6816.5	6230.7	5593.6	4994.7	4330.9	3823.2	3421.5	3058.0	2934.4	3046.2
7.5°	7171.1	6757.6	5802.5	4753.3	3711.3	2675.3	1966.1	1499.6	1202.3	1114.0	1161.1
10°	7247.6	6672.3	5306.6	3758.5	2333.9	1302.4	847.6	677.0	613.6	600.3	607.8
12.5°	7310.9	6557.4	4701.8	2672.4	1247.9	697.5	554.9	526.9	518.1	518.1	520.9
15°	7349.2	6383.9	3985.2	1699.8	718.1	526.9	484.1	475.4	475.4	476.8	479.8
17.5°	7344.7	6163.0	3200.8	1028.6	537.1	466.5	441.4	434.2	432.7	435.6	437.0
20°	7290.4	5874.6	2413.4	678.4	467.9	425.3	400.3	387.0	385.6	388.4	391.4
22.5°	7187.2	5518.5	1726.3	522.5	422.4	385.6	354.7	343.0	343.0	345.8	348.7
25°	7062.2	5082.9	1180.3	443.0	381.2	343.0	313.5	303.2	306.1	313.5	314.9
27.5°	6906.2	4592.9	802.0	379.7	331.1	300.3	278.1	270.7	278.1	288.4	291.4
30°	6772.3	4082.2	572.5	328.2	281.1	259.0	245.7	245.7	256.0	275.2	279.6
32.5°	6669.2	3587.8	441.4	290.0	244.2	225.1	217.7	225.1	241.4	260.5	264.9
35°	6656.0	3180.1	373.8	259.0	217.7	198.6	195.7	208.9	225.1	239.8	242.8
37.5°	6757.6	2803.4	337.0	234.0	194.3	176.5	173.6	189.8	206.0	223.7	228.1
40°	6950.4	2507.6	310.5	210.5	175.1	155.9	150.0	161.9	184.0	207.5	213.3
42.5°	7200.5	2263.3	281.1	186.8	155.9	129.4	122.1	135.4	158.9	184.0	191.2
45°	7439.0	2052.8	248.7	160.3	131.0	100.2	97.1	114.9	126.5	151.5	157.5
47.5°	7569.8	1867.4	220.8	131.0	101.6	80.9	80.9	85.3	97.1	126.5	132.4
50°	7525.8	1718.8	191.2	97.1	70.6	61.9	61.9	60.4	78.1	101.6	106.0
52.5°	7437.4	1633.5	164.7	75.1	48.6	44.1	39.7	44.1	54.4	64.8	66.3
55°	7424.2	1618.7	138.2	60.4	33.9	29.5	22.1	22.1	22.1	20.7	17.6
57.5°	7527.3	1642.3	116.2	48.6	25.1	19.1	11.8	0.0	0.0	0.0	0.0
60°	7633.2	1667.3	100.2	33.9	17.6	10.3	1.4	0.0	0.0	0.0	0.0
62.5°	7456.7	1611.4	83.9	20.7	13.2	4.4	0.0	0.0	0.0	0.0	0.0
65°	6550.1	1371.5	66.3	14.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4659.1	918.2	44.1	8.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2126.5	384.0	27.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	454.7	119.1	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	92.7	86.9	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	29.5	136.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.6	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.0	14.7	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)