

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: P269620

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269620  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 37847.9 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 501  
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

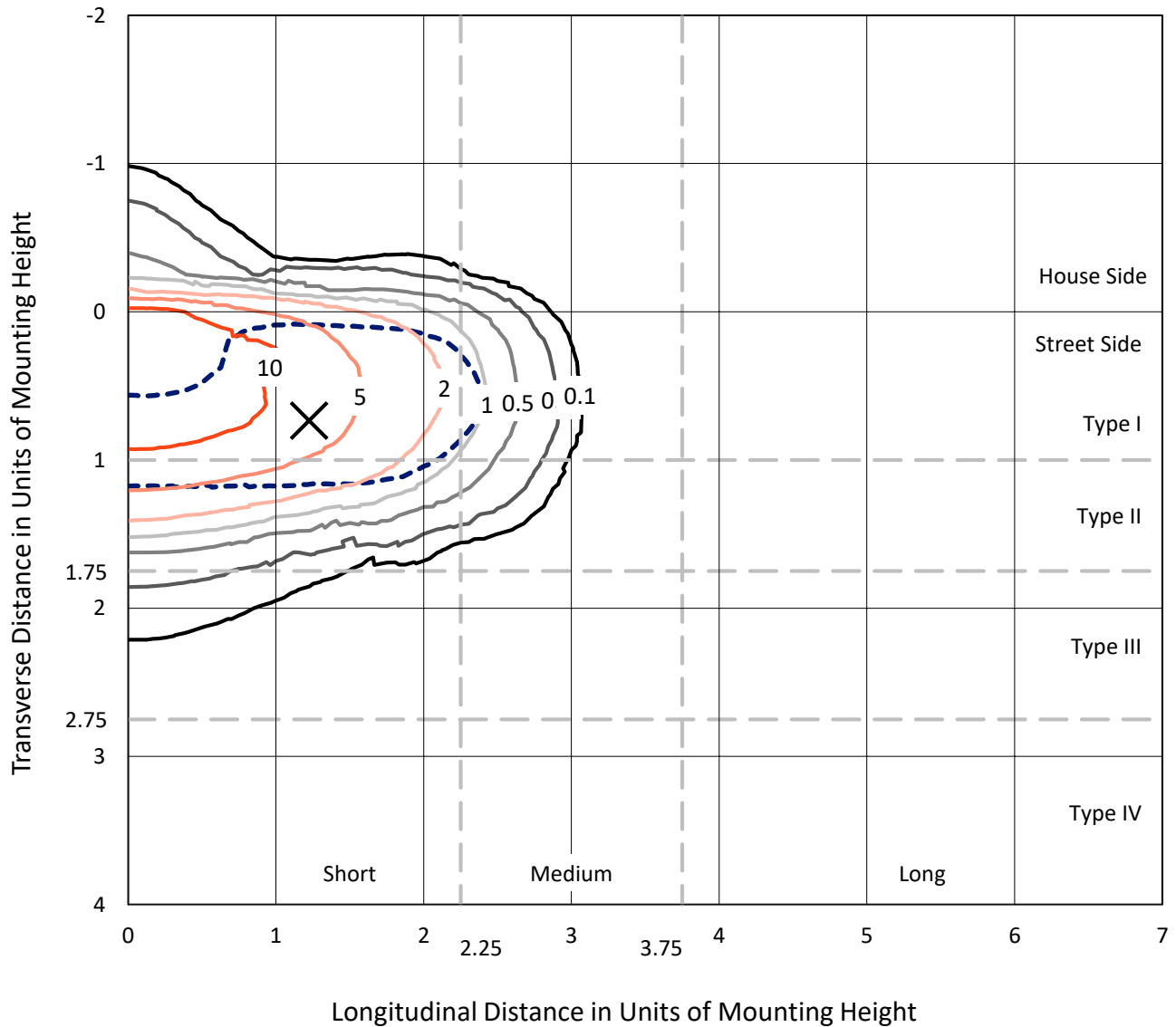


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

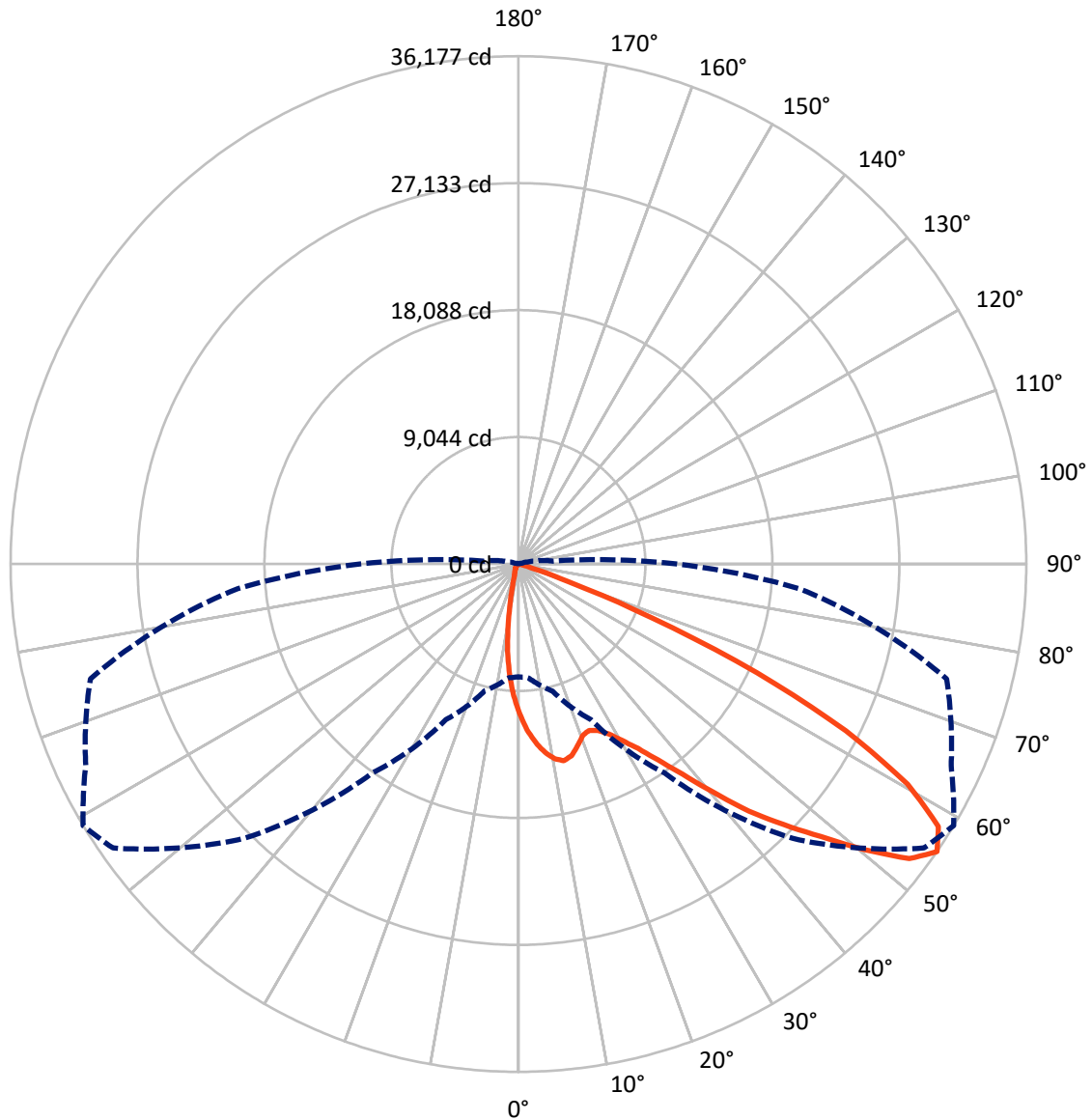


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc  
 Type II - Short - Full Cutoff

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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	2114.0	0.0	2114.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	35733.9	0.0	35733.9
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	37847.9	0.0	37847.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	892.4	2.4
10°-20°	2136.6	5.6
20°-30°	3635.7	9.6
30°-40°	6252.6	16.5
40°-50°	9653.4	25.5
50°-60°	9704.7	25.6
60°-70°	4976.7	13.1
70°-80°	539.3	1.4
80°-90°	56.4	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°	37847.9	100.0
0°-180°	37847.9	100.0

**Coefficient of Utilization**



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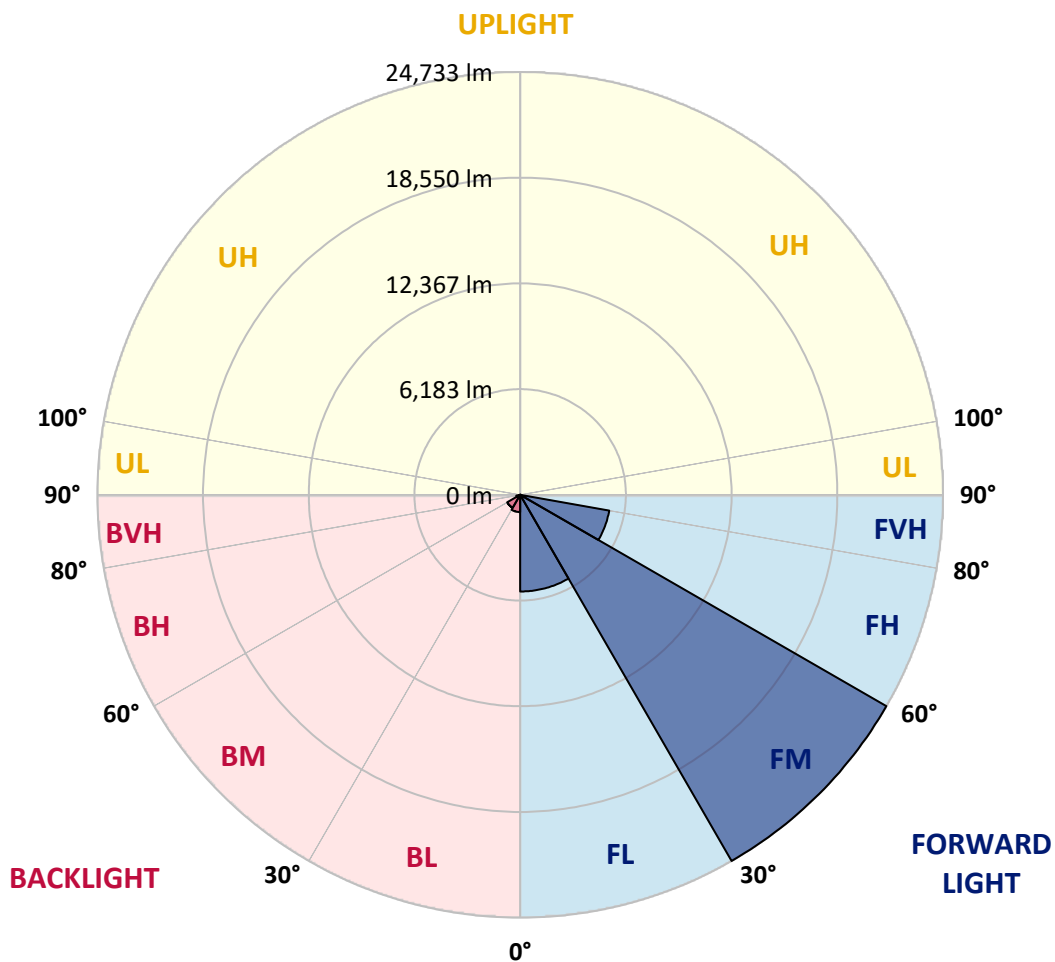
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5655.7	14.9			
FM	(30°-60°)	24733.4	65.3			
FH	(60°-80°)	5289.5	14.0			G3/7500
FVH	(80°-90°)	55.2	0.1			G1/100
BL	(0°-30°)	1009.0	2.7	B3/2500		
BM	(30°-60°)	877.3	2.3	B1/1000		
BH	(60°-80°)	226.5	0.6	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1
2.5°	12606.2	12472.2	12432.0	12405.1	12282.3	12128.1	11918.3	11820.0	11618.9	11295.1	10897.5
5°	13761.0	13736.3	13647.1	13597.9	13466.1	13247.1	12912.1	12751.4	12432.0	11886.9	11174.5
7.5°	13256.1	13410.3	13533.1	13738.6	13997.7	13988.8	13707.2	13539.9	13182.4	12463.3	11482.7
10°	11306.2	11431.3	11632.3	12099.1	13050.7	13890.4	14221.0	14100.4	13814.6	12992.5	11779.7
12.5°	10924.3	10911.0	10946.7	11082.8	11580.9	12778.1	14133.9	14377.4	14319.3	13477.2	12061.3
15°	11127.6	11111.9	11107.5	11154.3	11274.9	11779.7	13479.4	14178.6	14627.6	13926.2	12300.2
17.5°	11697.1	11630.0	11594.3	11556.3	11520.7	11645.7	12693.3	13622.4	14674.4	14319.3	12498.9
20°	12673.2	12561.4	12429.7	12215.3	12014.3	11951.7	12362.7	13050.7	14506.9	14618.6	12628.6
22.5°	13899.4	13756.5	13528.7	13137.7	12729.1	12492.3	12525.7	12869.7	14256.8	14944.7	12688.7
25°	15277.6	15094.3	14790.7	14247.8	13647.1	13227.2	13008.1	13128.8	14142.8	15326.6	12758.1
27.5°	16753.8	16550.6	16153.1	15413.7	14732.6	14165.3	13718.5	13702.8	14337.2	15827.0	12869.7
30°	18216.9	18185.6	17667.3	16885.7	15983.4	15293.1	14649.9	14567.3	14880.0	16519.3	13090.8
32.5°	20168.9	19934.5	19300.2	18496.0	17455.2	16626.5	15865.0	15672.8	15713.1	17325.7	13432.5
35°	22630.3	22373.5	21480.1	20370.0	19206.3	18228.0	17385.9	17124.7	17026.4	18645.7	14008.9
37.5°	24220.6	24216.1	23655.5	22525.4	21276.8	20198.0	19282.3	18976.2	18777.5	20240.4	14902.3
40°	24263.1	24368.1	24441.8	24430.6	23541.6	22547.6	21734.8	21357.3	20894.8	22371.3	16057.1
42.5°	22960.9	23231.2	23881.1	24984.5	25511.7	25116.3	24430.6	24059.8	23371.9	24651.6	17464.2
45°	21200.9	21388.6	22525.4	24558.0	26579.3	27662.5	27140.0	26476.6	25569.7	27030.4	18726.1
47.5°	20412.5	20446.0	21180.7	23412.0	26659.7	29748.7	30065.8	28987.0	27566.5	28946.9	19713.3
50°	18056.0	18116.4	19130.3	21426.5	25717.0	30733.7	33005.2	31982.3	29744.1	30423.2	20072.9
52.5°	13609.1	13693.9	14980.5	18163.2	23126.1	30313.8	35109.1	34861.2	32129.7	31144.6	20093.0
55°	8029.6	8141.2	9369.7	12226.6	18190.0	27642.5	35265.5	36176.8	34012.5	31571.2	20061.8
57.5°	3750.2	3828.2	4531.9	6298.6	11313.0	21846.4	32911.5	35274.5	35051.1	31796.9	20282.9
60°	1992.4	2014.7	2184.4	2727.2	5112.7	13852.6	28317.0	31852.7	34104.2	32109.6	20553.1
62.5°	1523.3	1530.1	1521.0	1585.8	2148.7	6149.0	21404.2	26186.1	30291.4	31875.0	20253.8
65°	1320.0	1331.2	1268.6	1253.0	1378.1	2193.3	12715.6	18665.8	23803.0	28710.1	18214.7
67.5°	1183.7	1188.3	1112.3	1047.6	1069.9	1186.0	5016.6	10218.5	15755.6	21044.6	13202.5
70°	1090.0	1085.5	1002.9	900.1	871.0	810.8	1594.8	3745.7	7529.4	10672.0	6140.1
72.5°	964.9	967.1	927.0	792.9	723.7	567.3	739.3	1092.2	2246.9	2908.2	1438.4
75°	855.5	844.2	795.1	710.3	596.4	372.9	366.2	486.9	692.5	687.9	310.5
77.5°	618.8	607.6	623.2	583.0	457.9	241.3	183.2	234.5	281.3	272.5	87.1
80°	453.5	446.6	402.0	484.6	404.2	165.3	113.9	125.0	145.2	122.9	26.8
82.5°	310.5	308.2	283.7	268.1	230.1	100.5	71.4	78.2	93.9	69.2	13.5
85°	49.1	55.9	205.5	163.0	136.3	44.6	49.1	53.5	62.5	38.0	4.5
87.5°	0.0	0.0	96.1	84.9	26.8	17.8	29.0	31.4	31.4	20.1	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°	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1	10654.1
2.5°	10694.2	10471.0	10057.8	9631.1	9235.7	8764.5	8440.7	8197.2	7915.8	7839.8	8005.1
5°	10768.0	10345.8	9456.8	8489.7	7580.6	6573.3	5802.8	5193.0	4641.4	4453.6	4623.4
7.5°	10884.1	10256.5	8807.0	7214.4	5633.0	4060.6	2984.0	2275.9	1824.7	1690.8	1762.2
10°	11000.3	10127.0	8054.3	5704.4	3542.5	1976.7	1286.6	1027.4	931.5	911.3	922.5
12.5°	11096.4	9952.7	7136.1	4056.1	1894.0	1058.7	842.0	799.6	786.1	786.1	790.7
15°	11154.3	9689.2	6048.5	2579.8	1090.0	799.6	734.9	721.3	721.3	723.7	728.2
17.5°	11147.6	9354.1	4857.9	1561.3	815.2	708.0	670.0	658.8	656.8	661.2	663.4
20°	11065.1	8916.3	3663.0	1029.6	710.3	645.5	607.6	587.4	585.2	589.6	594.0
22.5°	10908.7	8375.8	2619.9	792.9	641.0	585.2	538.3	520.4	520.4	524.9	529.3
25°	10718.8	7714.6	1791.3	672.3	578.5	520.4	475.7	460.1	464.6	475.7	478.0
27.5°	10482.1	6970.8	1217.4	576.3	502.5	455.6	422.2	411.0	422.2	437.7	442.2
30°	10278.8	6195.9	868.8	498.1	426.6	393.1	372.9	372.9	388.6	417.7	424.4
32.5°	10122.5	5445.3	670.0	440.0	370.8	341.7	330.5	341.7	366.2	395.3	402.0
35°	10102.3	4826.8	567.3	393.1	330.5	301.6	297.1	317.1	341.7	364.1	368.6
37.5°	10256.5	4254.9	511.5	355.1	294.9	268.1	263.6	288.1	312.7	339.5	346.1
40°	10549.1	3805.9	471.3	319.3	265.8	236.8	227.8	245.6	279.3	314.9	323.8
42.5°	10928.8	3435.2	426.6	283.7	236.8	196.5	185.4	205.5	241.3	279.3	290.3
45°	11290.5	3115.9	377.5	243.5	198.7	151.9	147.4	174.2	192.1	230.1	238.9
47.5°	11489.4	2834.4	335.1	198.7	154.1	122.9	122.9	129.5	147.4	192.1	201.0
50°	11422.4	2608.8	290.3	147.4	107.2	93.9	93.9	91.5	118.3	154.1	160.8
52.5°	11288.5	2479.2	250.2	113.9	73.8	67.1	60.2	67.1	82.6	98.3	100.5
55°	11268.2	2457.0	209.9	91.5	51.4	44.6	33.4	33.4	33.4	31.4	26.8
57.5°	11424.6	2492.6	176.4	73.8	38.0	29.0	17.8	0.0	0.0	0.0	0.0
60°	11585.4	2530.6	151.9	51.4	26.8	15.6	2.2	0.0	0.0	0.0	0.0
62.5°	11317.3	2445.7	127.3	31.4	20.1	6.6	0.0	0.0	0.0	0.0	0.0
65°	9941.5	2081.6	100.5	22.4	13.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7071.4	1393.7	67.1	13.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	3227.5	583.0	42.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	690.2	180.9	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	140.8	131.8	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.6	207.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.8	149.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.5	22.4	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)