

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: P299216

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SL2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Narrow OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

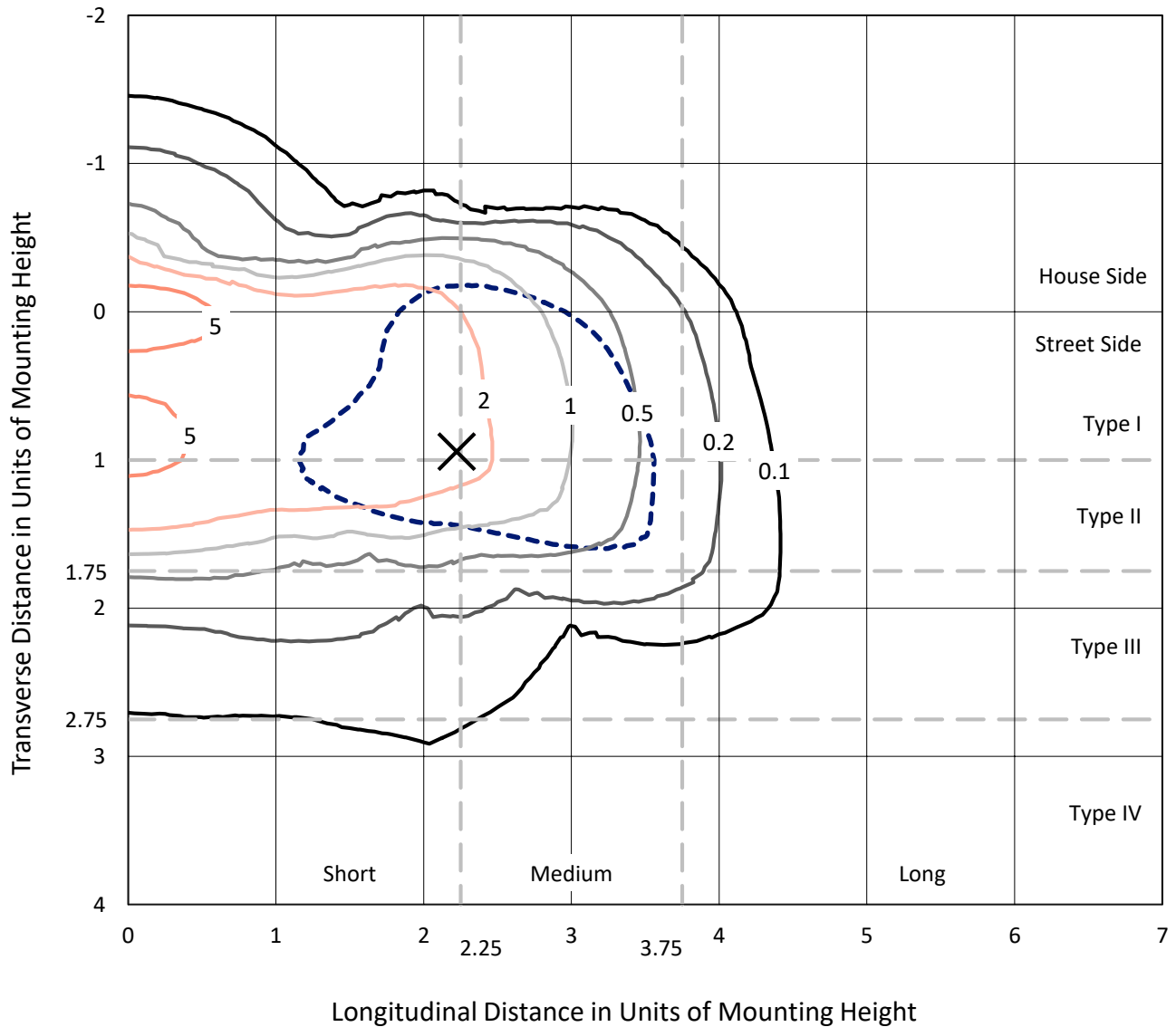
Lumens per Lamp: N/A  
Luminaire Lumens: 3877 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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

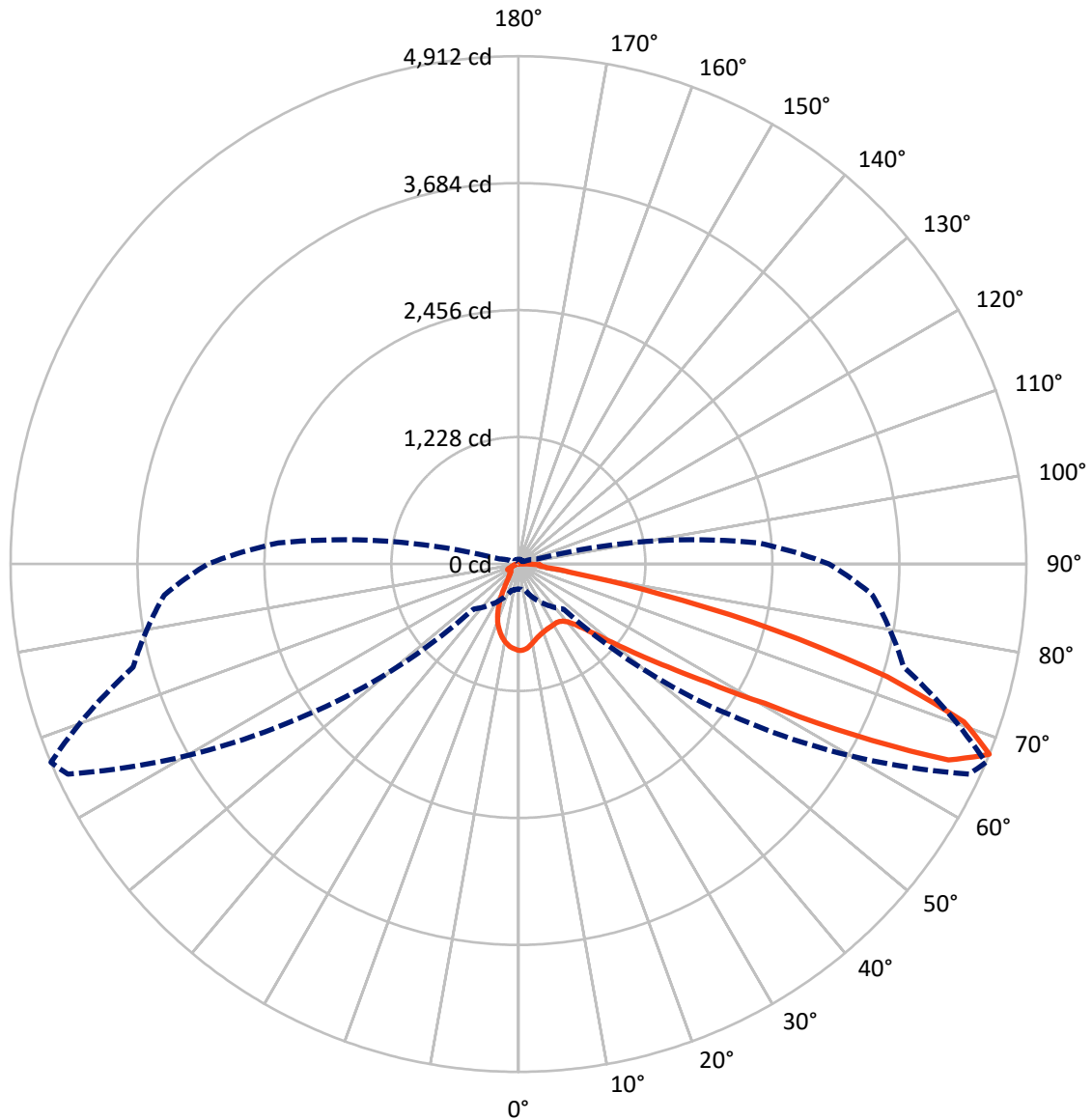
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	642.4	0.0	642.4
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	3234.6	0.0	3234.6
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	3877.0	0.0	3877.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	1.8
10°-20°	165.1	4.3
20°-30°	223.8	5.8
30°-40°	318.1	8.2
40°-50°	532.2	13.7
50°-60°	842.0	21.7
60°-70°	1072.6	27.7
70°-80°	561.8	14.5
80°-90°	90.1	2.3
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°	3877.0	100.0
0°-180°	3877.0	100.0



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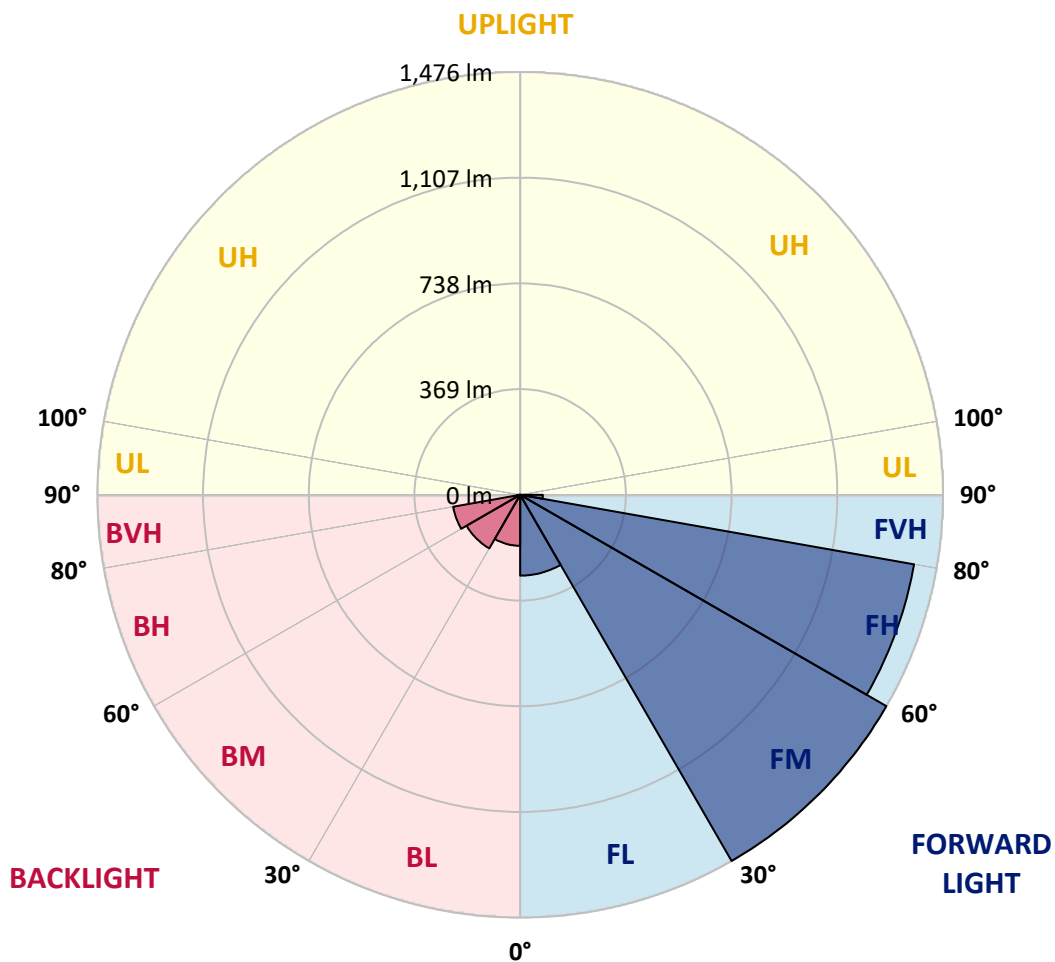
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.1	7.3			
FM	(30°-60°)	1476.4	38.1			
FH	(60°-80°)	1396.8	36.0			G1/1800
FVH	(80°-90°)	79.2	2.0			G1/100
BL	(0°-30°)	178.0	4.6	B1/500		
BM	(30°-60°)	215.9	5.6	B0/220		
BH	(60°-80°)	237.6	6.1	B1/500		G1/500
BVH	(80°-90°)	10.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	801.8	803.2	807.4	810.1	822.1	827.3	830.9	834.5	835.1	836.8	835.1
5°	717.7	720.6	728.4	737.2	760.5	778.9	798.2	818.3	821.9	834.9	838.5
7.5°	652.5	651.8	658.3	668.8	692.7	718.1	751.9	791.9	799.7	829.0	843.1
10°	604.9	604.3	611.2	622.1	644.9	669.0	707.2	761.9	773.0	819.6	847.5
12.5°	569.7	569.9	576.8	588.9	612.0	636.3	675.1	732.8	747.0	808.7	852.1
15°	546.4	547.9	553.5	566.3	588.9	613.1	651.2	711.0	726.9	800.1	857.3
17.5°	538.6	541.1	543.0	552.3	571.7	595.9	633.2	695.0	711.8	794.2	861.9
20°	545.8	548.7	545.1	548.3	560.6	582.0	619.1	682.3	699.6	787.5	862.4
22.5°	577.0	579.7	569.0	559.6	558.8	571.8	607.4	672.4	690.2	782.5	862.6
25°	631.9	633.6	615.6	593.8	572.6	568.2	599.2	665.5	684.5	778.1	859.0
27.5°	699.2	700.5	679.9	647.7	605.1	576.8	596.3	661.5	681.2	774.3	852.9
30°	781.0	787.3	759.6	719.1	656.9	602.2	602.1	659.4	677.6	767.8	840.8
32.5°	864.7	867.4	848.3	807.2	726.7	647.0	618.1	660.9	676.6	760.0	825.5
35°	949.6	953.1	940.6	907.6	822.1	712.6	649.5	669.9	682.5	757.3	814.8
37.5°	1059.6	1064.2	1046.9	1008.7	938.2	801.5	701.7	692.5	700.7	764.9	811.6
40°	1233.4	1231.2	1181.0	1124.0	1065.1	915.2	776.2	730.7	735.5	789.6	821.5
42.5°	1435.6	1430.5	1343.9	1254.4	1204.7	1052.9	874.9	797.1	796.1	838.2	856.5
45°	1597.0	1592.8	1514.8	1404.5	1364.7	1209.6	1002.4	895.9	888.8	915.2	921.1
47.5°	1684.4	1684.6	1639.6	1549.6	1548.6	1408.9	1166.2	1038.9	1026.7	1039.1	1032.8
50°	1653.8	1657.8	1653.0	1624.3	1716.5	1670.0	1380.2	1238.3	1213.7	1225.9	1201.6
52.5°	1505.8	1511.0	1539.3	1583.2	1787.0	1985.7	1694.5	1486.1	1457.4	1453.0	1426.1
55°	1243.5	1249.8	1307.5	1427.0	1728.3	2197.7	2190.4	1801.9	1756.3	1714.8	1703.3
57.5°	857.1	867.6	960.5	1137.9	1538.5	2261.8	2781.0	2252.2	2159.3	2014.4	2017.0
60°	483.1	495.4	604.9	766.1	1155.3	2192.2	3230.3	2934.2	2738.0	2365.2	2385.1
62.5°	307.2	320.4	403.6	532.3	693.2	1817.4	3414.4	3882.3	3633.1	2797.6	2817.2
65°	248.7	254.5	293.7	439.3	503.4	1094.9	3274.7	4663.3	4570.3	3346.5	3255.5
67.5°	242.8	244.7	265.0	368.8	482.7	615.4	2612.0	4809.3	4912.4	3859.1	3438.1
70°	239.9	246.6	298.6	352.0	462.3	519.1	1569.7	4409.0	4571.7	3993.1	3195.1
72.5°	116.4	116.1	150.3	318.3	520.8	538.4	806.4	3567.4	3730.6	3459.5	2625.6
75°	93.9	85.8	82.0	116.6	500.7	556.0	513.9	2454.7	2572.8	2319.5	1614.0
77.5°	89.1	79.5	72.8	73.0	211.6	589.6	435.3	1358.6	1393.0	1047.7	442.2
80°	73.8	65.0	60.2	67.9	102.5	561.5	470.7	614.9	564.2	257.3	147.2
82.5°	51.2	46.6	45.3	57.0	82.0	400.2	547.4	330.4	277.0	128.9	90.8
85°	32.7	27.9	31.0	41.5	63.9	184.7	563.8	257.5	204.8	81.8	51.2
87.5°	15.1	12.2	15.3	22.9	41.7	63.7	536.5	289.3	210.9	43.2	32.3
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°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	836.6	833.0	830.1	824.8	818.9	813.1	808.0	801.5	799.5	797.8	800.5
5°	839.3	835.7	825.2	808.7	790.6	773.5	756.5	742.0	733.0	728.0	730.9
7.5°	843.3	838.2	816.4	786.2	753.5	723.6	692.9	668.2	650.0	641.4	643.9
10°	847.0	837.0	801.5	756.1	708.4	664.0	615.4	575.3	545.5	529.8	533.6
12.5°	848.5	832.6	780.6	718.7	653.1	588.1	516.6	456.6	413.7	398.1	394.8
15°	850.0	827.7	757.7	676.0	586.4	494.4	394.2	322.3	286.8	278.9	277.2
17.5°	850.4	819.0	731.7	629.8	508.2	382.9	269.6	223.9	224.1	236.7	238.2
20°	846.4	806.2	700.1	572.2	414.5	264.8	185.1	177.2	206.1	237.6	241.5
22.5°	837.2	789.2	664.4	505.1	307.2	174.4	143.2	151.8	189.1	227.7	232.1
25°	825.5	768.6	622.1	427.3	203.4	124.7	120.1	130.6	155.8	181.6	184.1
27.5°	809.7	744.1	574.7	338.2	132.1	102.7	105.7	112.8	123.1	134.6	135.7
30°	789.2	714.9	524.0	246.6	99.8	92.3	96.7	100.6	105.0	111.5	112.0
32.5°	765.7	686.7	472.0	170.3	88.5	87.0	90.4	92.3	95.8	99.8	100.2
35°	746.0	660.0	418.1	120.4	83.7	83.0	85.3	86.0	89.3	93.7	94.1
37.5°	734.7	638.2	362.5	97.1	80.5	79.3	80.7	80.7	85.3	91.8	92.7
40°	735.5	626.1	306.9	87.8	77.8	76.3	76.5	76.5	82.4	89.5	90.0
42.5°	756.3	629.2	257.5	84.1	75.7	74.0	73.0	73.6	78.6	83.2	83.5
45°	805.3	650.8	211.3	81.8	73.6	73.0	70.9	70.7	72.7	74.8	74.8
47.5°	885.6	693.4	179.9	80.3	71.9	71.7	69.2	66.7	66.5	67.3	67.3
50°	1016.2	766.9	158.9	78.6	70.7	69.2	66.3	62.5	61.2	61.8	61.8
52.5°	1211.9	897.8	150.8	76.3	68.3	65.8	62.5	58.7	57.5	57.7	57.7
55°	1468.7	1098.9	149.7	73.6	65.6	61.6	58.9	56.0	54.7	55.1	55.1
57.5°	1782.4	1377.1	170.2	69.4	61.9	57.4	55.8	53.9	53.0	53.5	53.3
60°	2163.9	1741.1	252.4	65.0	58.3	53.5	53.5	52.0	51.2	51.8	51.6
62.5°	2603.2	2159.3	354.8	61.8	54.5	50.5	51.2	50.5	49.7	50.1	49.9
65°	2992.9	2431.7	332.3	59.3	50.7	47.6	48.9	48.6	48.0	48.4	48.2
67.5°	3004.1	2330.8	186.6	56.6	47.0	44.7	46.6	46.5	46.1	46.5	46.3
70°	2681.0	1968.1	105.2	51.6	43.2	41.3	44.0	43.8	43.4	44.2	44.0
72.5°	2148.0	1428.2	76.9	45.5	39.4	37.7	40.7	40.5	40.5	41.7	41.1
75°	1236.0	734.9	61.4	39.0	35.4	34.0	36.7	36.9	37.3	38.8	37.7
77.5°	352.4	229.0	50.1	33.1	30.4	29.8	32.5	32.9	33.1	34.8	33.3
80°	131.0	105.5	41.3	27.7	24.9	25.0	27.5	28.1	28.3	30.0	28.1
82.5°	83.5	69.6	33.5	21.4	19.5	19.3	22.4	23.1	23.1	23.3	22.2
85°	48.8	41.7	25.2	15.5	13.8	13.2	16.6	18.0	17.4	17.0	16.3
87.5°	32.7	28.7	15.5	8.6	7.5	7.1	9.8	10.7	10.3	9.8	9.2
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)