

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: P527929

Luminaire Tested: **GALN-SA3A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527929  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7551 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

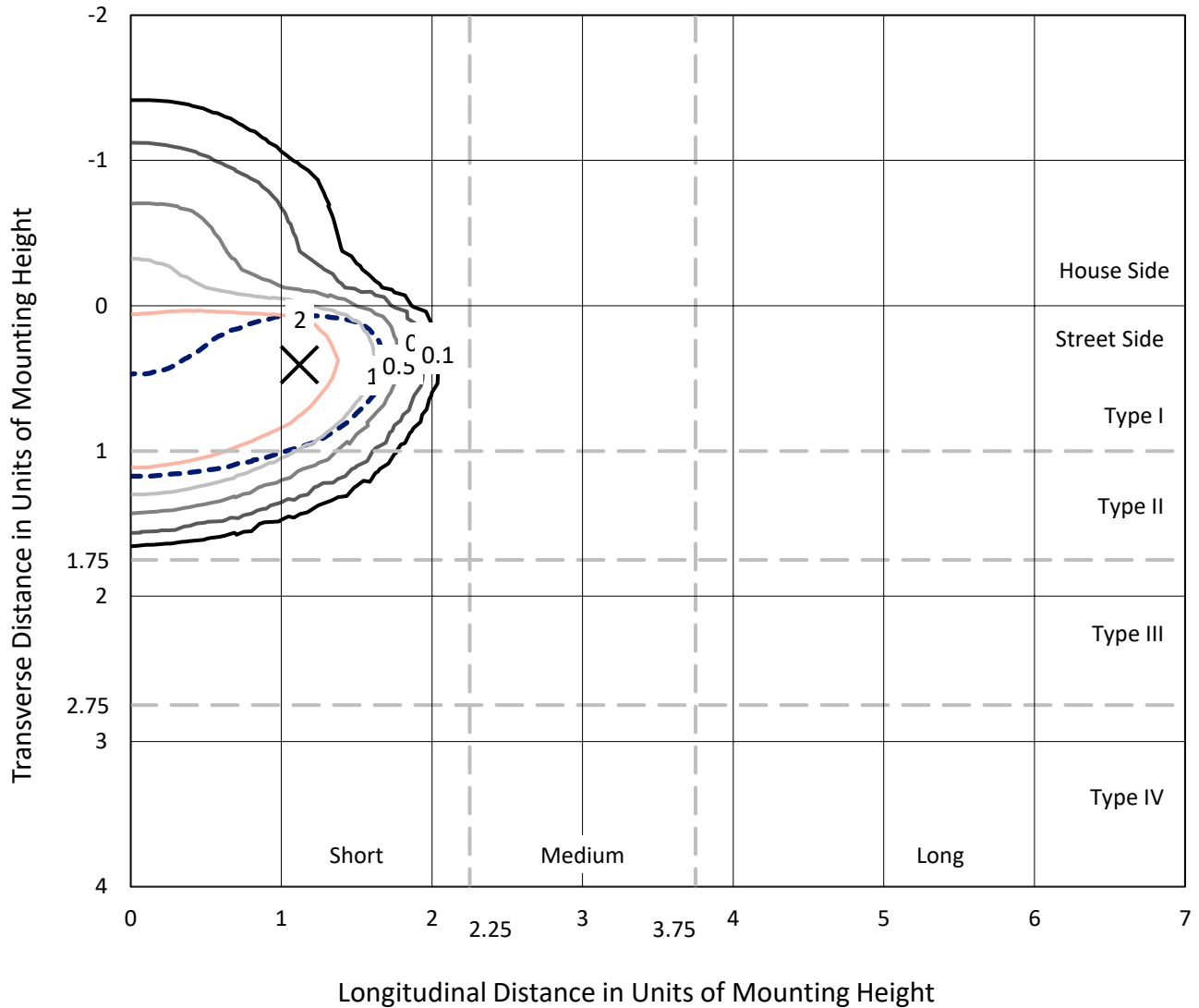
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

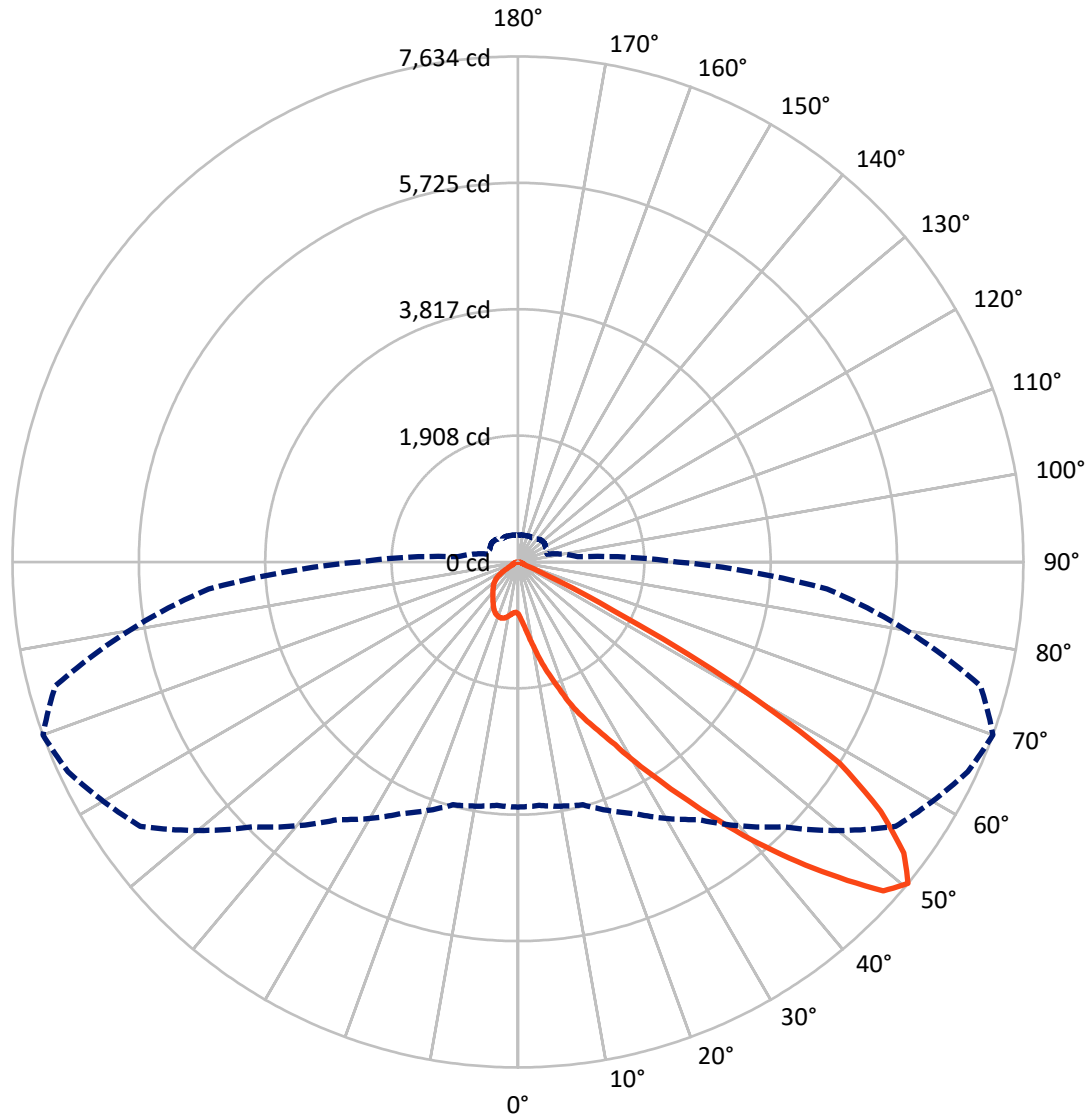
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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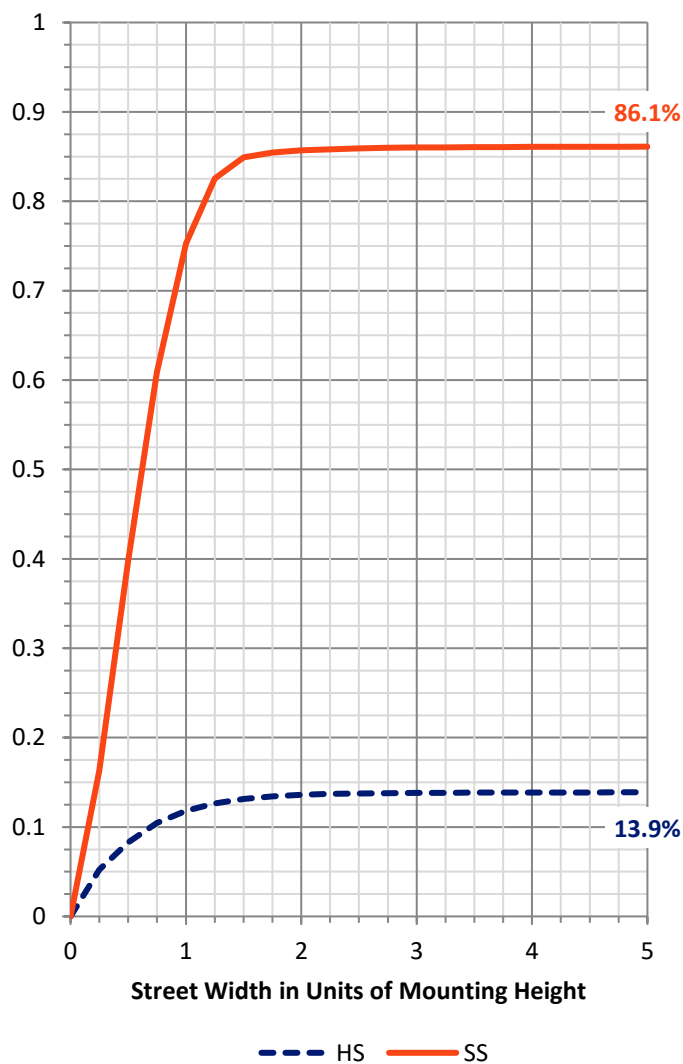
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1054.5	0.0	1054.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	6496.5	0.0	6496.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	7551.0	0.0	7551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	1.3
10°-20°	439.9	5.8
20°-30°	922.9	12.2
30°-40°	1590.8	21.1
40°-50°	2325.0	30.8
50°-60°	1810.8	24.0
60°-70°	306.8	4.1
70°-80°	42.1	0.6
80°-90°	10.9	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°	7551.0	100.0
0°-180°	7551.0	100.0

**Coefficient of Utilization**



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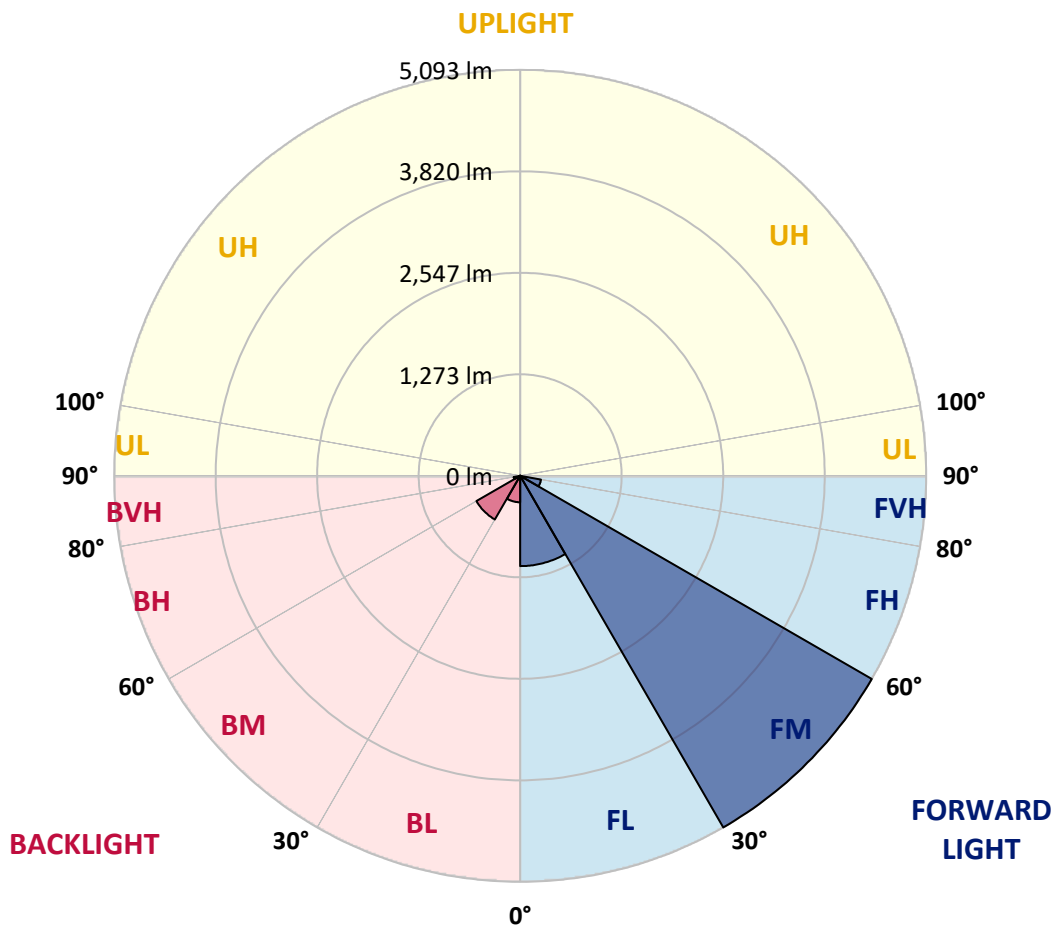
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.7	15.0			
FM (30°-60°)	5093.0	67.4			
FH (60°-80°)	265.6	3.5			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	331.8	4.4	B1/500		
BM (30°-60°)	633.5	8.4	B1/1000		
BH (60°-80°)	83.3	1.1	B0/110		G0/110
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	1024.2	1016.8	1000.6	970.8	958.4	928.6	911.2	877.7	856.6	833.0	807.0
5°	1442.6	1404.1	1380.5	1347.0	1248.9	1188.1	1087.5	1001.9	962.2	918.7	859.1
7.5°	1874.6	1849.8	1817.5	1745.5	1678.5	1551.9	1379.3	1190.6	1109.9	1035.4	917.5
10°	2232.2	2162.7	2158.9	2105.6	2032.3	1880.8	1673.5	1438.9	1294.9	1185.6	1000.6
12.5°	2481.7	2418.4	2447.0	2440.8	2372.5	2233.4	1993.8	1683.5	1533.2	1363.1	1086.3
15°	2708.9	2682.8	2674.2	2666.7	2639.4	2536.4	2321.6	1981.4	1764.1	1559.3	1183.1
17.5°	2931.1	2864.1	2896.4	2902.6	2900.1	2807.0	2605.9	2264.5	2008.7	1766.6	1284.9
20°	3128.5	3134.7	3091.3	3082.6	3075.2	3071.4	2875.3	2545.0	2309.2	1983.9	1417.8
22.5°	3381.8	3338.4	3376.8	3352.0	3303.6	3273.8	3123.6	2793.3	2569.9	2245.8	1553.1
25°	3681.0	3715.8	3625.1	3615.2	3561.8	3458.8	3323.5	3071.4	2820.7	2489.2	1699.6
27.5°	4049.7	3988.9	3965.3	3910.7	3813.8	3770.4	3611.5	3358.2	3123.6	2744.9	1841.1
30°	4366.3	4350.2	4232.2	4167.7	4083.2	4082.0	3859.8	3746.8	3518.4	3145.9	2036.0
32.5°	4624.5	4553.8	4510.3	4465.6	4397.3	4416.0	4228.5	4168.9	3939.2	3518.4	2265.7
35°	4797.1	4746.2	4720.1	4651.8	4632.0	4715.2	4636.9	4612.1	4423.4	4042.3	2535.1
37.5°	4851.7	4867.9	4862.9	4777.2	4819.4	5044.1	5144.7	5080.2	4980.8	4594.7	2826.9
40°	4900.1	4911.3	4886.5	4987.0	5107.5	5363.2	5727.0	5620.2	5583.0	5154.6	3232.8
42.5°	4927.4	4918.8	4918.8	5092.6	5275.1	5789.0	6289.4	6218.6	6190.0	5750.6	3702.1
45°	4809.5	4725.1	4815.7	5051.6	5419.1	5998.9	6738.8	6836.9	6795.9	6459.4	4250.8
47.5°	4368.8	4420.9	4471.8	4787.2	5244.0	5934.3	7014.4	7348.3	7424.1	7055.4	4610.9
50°	3702.1	3690.9	3796.5	4193.7	4748.7	5656.2	6961.0	7496.1	7633.9	7234.1	4686.6
52.5°	2692.8	2774.7	2888.9	3283.7	3941.7	4936.1	6272.0	7114.9	7298.7	7014.4	4636.9
55°	1568.0	1477.4	1734.4	2068.3	2689.1	3723.2	5302.4	6306.7	6646.9	6614.6	4386.2
57.5°	628.2	608.3	696.5	938.6	1402.9	2307.9	3856.0	5182.0	5727.0	6058.4	3854.8
60°	275.6	269.4	316.6	382.4	573.6	1064.0	2109.3	3222.9	3791.5	4233.5	2653.1
62.5°	198.6	196.2	219.7	243.3	302.9	463.1	886.4	1298.6	1618.9	1955.3	1188.1
65°	160.2	166.4	182.5	194.9	223.5	257.0	312.9	361.3	443.2	459.3	262.0
67.5°	130.4	135.3	150.2	163.9	168.8	139.0	144.0	126.6	126.6	113.0	90.6
70°	95.6	96.8	114.2	130.4	104.3	55.9	98.1	98.1	88.1	84.4	77.0
72.5°	70.8	72.0	85.7	80.7	41.0	34.8	72.0	79.5	72.0	68.3	62.1
75°	52.1	53.4	44.7	18.6	17.4	22.3	42.2	54.6	52.1	50.9	47.2
77.5°	9.9	7.4	6.2	8.7	12.4	18.6	27.3	33.5	34.8	37.2	34.8
80°	1.2	1.2	3.7	7.4	13.7	19.9	28.6	32.3	33.5	34.8	32.3
82.5°	0.0	1.2	3.7	7.4	13.7	18.6	24.8	28.6	31.0	32.3	31.0
85°	0.0	1.2	2.5	6.2	11.2	13.7	12.4	8.7	7.4	8.7	6.2
87.5°	0.0	0.0	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	792.1	787.1	769.7	751.1	735.0	742.4	735.0	728.8	731.2	728.8	726.3
5°	835.5	813.2	775.9	759.8	746.1	744.9	741.2	739.9	741.2	741.2	730.0
7.5°	876.5	840.5	800.8	783.4	767.2	768.5	759.8	759.8	758.5	752.3	749.9
10°	938.6	890.1	839.2	808.2	788.3	784.6	775.9	767.2	767.2	767.2	754.8
12.5°	1006.8	946.0	876.5	840.5	816.9	798.3	784.6	782.1	768.5	766.0	759.8
15°	1066.4	989.5	901.3	851.7	821.9	797.0	775.9	762.3	756.1	752.3	747.4
17.5°	1124.8	1026.7	915.0	851.7	819.4	790.8	768.5	756.1	741.2	743.6	733.7
20°	1203.0	1066.4	918.7	835.5	795.8	768.5	738.7	732.5	723.8	716.3	718.8
22.5°	1278.7	1095.0	907.5	815.7	758.5	726.3	711.4	703.9	700.2	694.0	685.3
25°	1347.0	1126.0	890.1	779.7	718.8	695.2	681.6	680.3	671.6	671.6	655.5
27.5°	1416.5	1137.2	860.3	737.4	684.1	670.4	664.2	661.7	658.0	649.3	638.1
30°	1496.0	1140.9	816.9	694.0	653.0	638.1	646.8	653.0	636.9	620.7	625.7
32.5°	1561.8	1132.2	764.8	653.0	630.7	623.2	640.6	646.8	628.2	610.8	602.1
35°	1641.2	1111.1	713.9	620.7	608.3	623.2	638.1	638.1	600.9	579.8	574.8
37.5°	1761.7	1087.5	666.7	593.4	584.7	615.8	635.6	622.0	563.6	537.6	531.4
40°	1890.8	1072.6	620.7	566.1	572.3	603.4	614.5	572.3	512.7	496.6	491.6
42.5°	2078.2	1042.8	579.8	542.5	561.2	586.0	586.0	510.2	487.9	479.2	478.0
45°	2311.6	1021.7	543.8	522.7	545.0	551.2	531.4	478.0	461.8	459.3	460.6
47.5°	2425.9	980.8	506.5	499.1	515.2	516.5	464.3	451.9	438.2	434.5	432.0
50°	2408.5	907.5	458.1	468.0	490.4	478.0	423.3	425.8	413.4	412.2	406.0
52.5°	2286.8	792.1	409.7	433.3	458.1	422.1	389.8	387.3	387.3	371.2	365.0
55°	2027.3	638.1	351.3	381.1	410.9	355.1	346.4	343.9	337.7	322.8	319.1
57.5°	1605.2	468.0	264.4	296.7	348.9	301.7	300.4	289.3	273.1	262.0	262.0
60°	954.7	269.4	166.4	181.3	230.9	244.6	271.9	266.9	239.6	222.2	217.3
62.5°	435.8	139.0	105.5	108.0	124.1	158.9	213.5	247.1	208.6	178.8	176.3
65°	146.5	103.0	86.9	83.2	85.7	95.6	127.9	175.0	166.4	137.8	132.8
67.5°	89.4	91.9	81.9	75.7	75.7	74.5	73.2	79.5	98.1	95.6	96.8
70°	77.0	84.4	75.7	68.3	65.8	62.1	52.1	43.5	37.2	43.5	45.9
72.5°	62.1	67.0	64.6	58.3	52.1	47.2	37.2	28.6	21.1	18.6	18.6
75°	45.9	49.7	52.1	44.7	39.7	33.5	27.3	18.6	11.2	7.4	7.4
77.5°	33.5	37.2	38.5	34.8	29.8	23.6	17.4	12.4	6.2	2.5	2.5
80°	28.6	33.5	37.2	34.8	31.0	22.3	16.1	8.7	5.0	1.2	1.2
82.5°	27.3	33.5	37.2	33.5	29.8	21.1	16.1	9.9	3.7	1.2	1.2
85°	6.2	8.7	11.2	13.7	16.1	16.1	12.4	7.4	3.7	1.2	1.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	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

(END OF REPORT)