

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: P526293

Luminaire Tested: **GALN-SA1B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

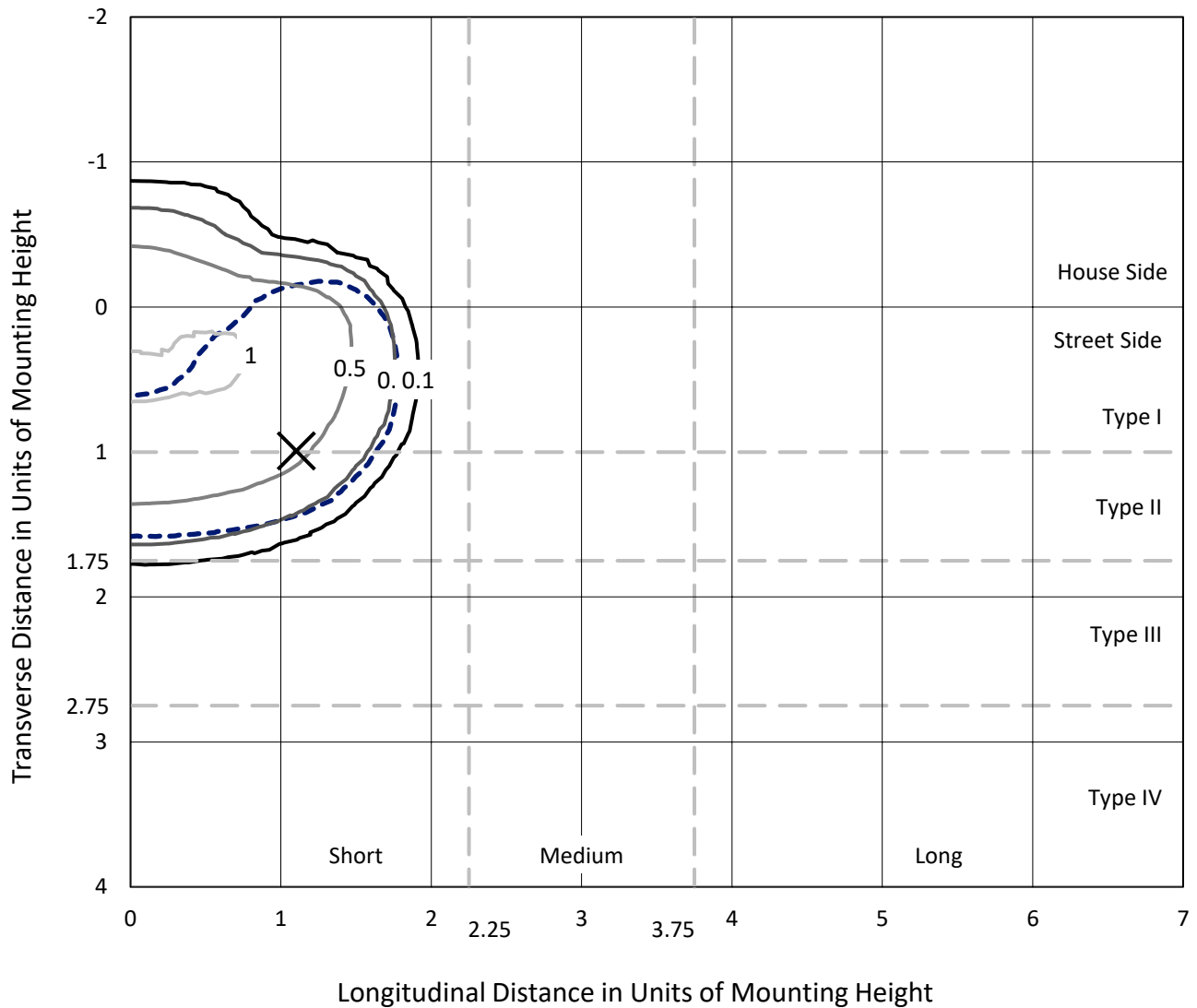
Lumens per Lamp: N/A  
Luminaire Lumens: 2875 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

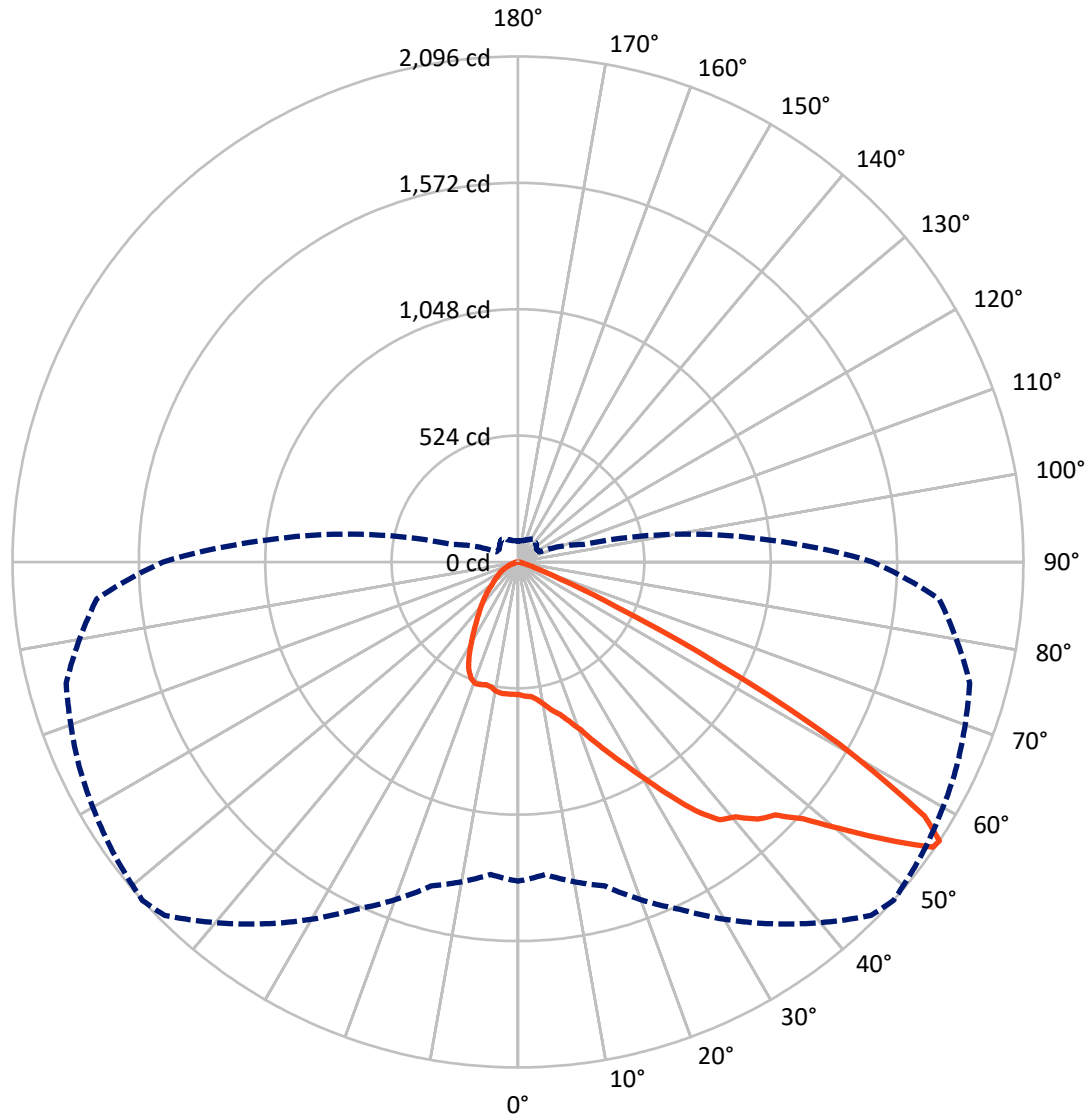
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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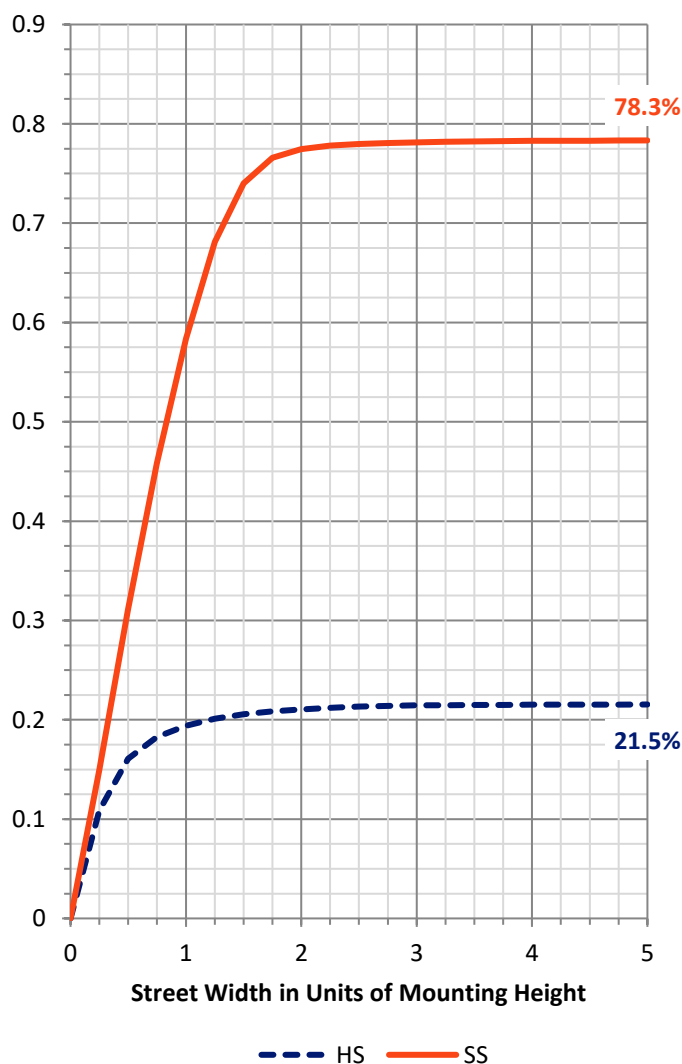
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	625.3	0.0	625.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	2249.7	0.0	2249.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2875.0	0.0	2875.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.9
10°-20°	170.9	5.9
20°-30°	310.1	10.8
30°-40°	487.0	16.9
40°-50°	710.5	24.7
50°-60°	856.0	29.8
60°-70°	250.6	8.7
70°-80°	31.8	1.1
80°-90°	4.5	0.2
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°	2875.0	100.0
0°-180°	2875.0	100.0

**Coefficient of Utilization**

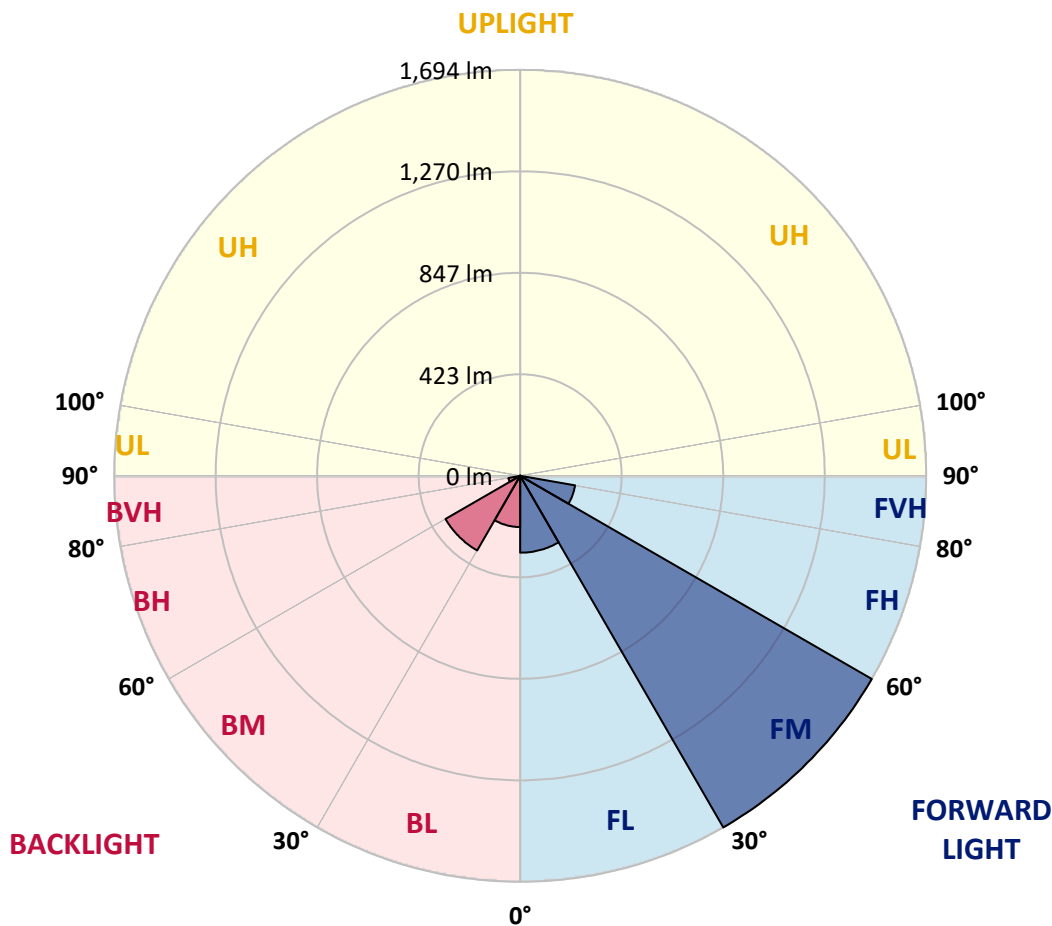


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.8	11.2			
FM (30°-60°)	1694.0	58.9			
FH (60°-80°)	232.8	8.1			G0/660
FVH (80°-90°)	2.2	0.1			G0/10
BL (0°-30°)	213.7	7.4	B1/500		
BM (30°-60°)	359.6	12.5	B1/1000		
BH (60°-80°)	49.7	1.7	B0/110		G0/110
BVH (80°-90°)	2.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	559.1	556.5	556.5	552.3	557.0	554.9	556.5	551.2	556.5	548.6	554.9
5°	561.7	562.2	560.1	562.7	562.7	565.9	560.6	565.4	568.0	562.2	559.6
7.5°	575.3	576.3	575.8	573.7	577.9	577.4	576.9	573.2	574.3	572.2	569.0
10°	602.0	601.5	604.1	598.9	595.7	599.4	600.4	594.7	590.5	588.9	579.0
12.5°	640.7	634.5	630.8	625.6	627.1	621.9	631.3	621.4	619.3	609.8	599.9
15°	672.1	671.1	671.6	663.2	653.8	655.9	655.9	650.7	647.5	636.0	621.9
17.5°	736.5	714.5	719.3	708.8	700.9	700.4	695.7	696.7	688.4	664.3	642.8
20°	786.8	777.4	770.0	752.2	740.2	743.9	741.8	736.5	733.9	702.5	672.1
22.5°	831.8	834.9	822.9	818.2	801.4	803.0	807.2	802.5	782.6	750.1	705.1
25°	895.1	891.5	875.3	869.5	853.8	859.5	875.8	872.1	859.5	800.9	730.8
27.5°	970.0	957.4	960.6	934.4	919.2	935.5	954.8	973.1	937.5	860.6	761.1
30°	1022.9	1009.8	1008.7	1007.7	1004.0	1022.9	1045.4	1062.1	1033.3	920.3	811.4
32.5°	1049.0	1052.2	1061.1	1057.9	1089.9	1128.6	1152.2	1176.3	1140.1	1017.6	877.9
35°	1118.7	1098.8	1118.7	1120.8	1153.7	1235.9	1265.8	1323.3	1314.4	1155.3	959.0
37.5°	1159.5	1157.9	1160.5	1180.4	1212.4	1313.9	1356.3	1400.8	1384.1	1238.0	1060.0
40°	1227.0	1231.2	1230.7	1245.9	1280.9	1372.6	1389.8	1425.9	1427.5	1352.7	1208.7
42.5°	1335.4	1318.6	1307.6	1323.3	1372.6	1423.3	1457.9	1450.6	1502.4	1491.9	1399.8
45°	1432.8	1442.7	1426.5	1452.6	1470.4	1497.7	1496.6	1512.3	1578.3	1628.0	1543.7
47.5°	1523.8	1530.1	1538.0	1555.8	1594.5	1598.7	1589.8	1583.0	1674.1	1725.4	1655.2
50°	1578.3	1584.0	1620.7	1652.6	1724.9	1734.3	1739.5	1722.2	1784.0	1789.8	1760.4
52.5°	1563.6	1569.9	1621.2	1726.4	1841.6	1928.0	1912.3	1882.9	1879.3	1901.8	1857.8
55°	1433.8	1428.0	1498.7	1662.6	1878.2	2085.5	2087.6	2056.7	1997.6	1982.4	1843.2
56°	1323.3	1300.8	1390.9	1588.7	1831.1	2071.9	2095.5	2062.5	2007.0	1939.0	1752.6
57.5°	1084.1	1105.6	1195.1	1358.9	1668.3	1974.0	1987.6	1979.8	1937.9	1823.8	1542.2
60°	597.8	635.5	714.5	915.0	1187.8	1514.9	1525.9	1589.8	1597.6	1396.6	1061.1
62.5°	253.9	249.7	331.9	479.5	676.3	914.5	934.9	1000.4	1012.4	805.1	532.4
65°	103.1	108.9	150.2	241.3	357.5	416.7	445.5	466.9	506.7	332.4	196.3
67.5°	68.1	67.5	88.5	137.7	192.6	185.8	185.8	196.3	181.6	135.6	84.8
70°	48.7	50.3	63.3	95.3	119.9	89.0	85.3	81.7	92.7	89.5	68.6
72.5°	31.9	34.0	42.4	57.1	62.3	48.7	48.7	58.6	76.4	72.2	56.0
75°	20.9	21.5	26.2	33.0	30.9	25.1	27.7	39.3	55.5	53.4	39.8
77.5°	14.1	14.7	17.8	21.5	17.3	14.1	15.2	19.9	27.2	27.2	20.9
80°	5.2	5.8	7.3	6.8	7.9	9.9	11.0	13.6	16.2	16.2	14.1
82.5°	0.0	0.5	1.6	3.7	5.8	7.9	8.9	10.5	12.0	13.6	13.1
85°	0.0	0.5	1.6	2.6	4.2	4.7	5.2	3.7	3.1	3.1	2.6
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5	0.5
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°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	549.1	548.6	548.6	547.0	550.2	548.6	549.6	549.1	542.3	547.6	543.9
5°	554.9	558.5	552.8	551.7	547.6	549.1	549.1	543.9	548.6	548.1	547.0
7.5°	569.5	563.3	557.0	550.7	549.6	548.1	542.3	540.2	543.9	539.7	546.0
10°	575.8	576.9	567.4	559.1	551.2	540.2	532.4	527.7	521.9	528.2	531.9
12.5°	604.6	594.1	577.9	564.8	538.1	527.1	519.3	517.2	527.1	529.2	525.6
15°	614.6	613.0	592.1	562.7	535.0	521.9	523.5	519.3	520.3	515.1	516.1
17.5°	635.0	617.2	592.6	555.9	534.5	531.3	521.9	505.2	495.7	491.5	495.2
20°	657.5	640.2	604.6	558.5	539.2	530.8	499.9	479.5	460.1	449.7	450.2
22.5°	677.4	655.9	599.4	559.6	543.4	508.8	471.7	431.3	407.3	391.0	391.6
25°	701.5	671.1	601.5	561.7	532.4	473.7	420.4	381.1	352.3	341.3	345.0
27.5°	715.1	680.5	613.0	566.4	503.6	424.0	366.4	329.8	313.0	307.8	307.3
30°	755.9	701.5	627.1	557.0	455.4	370.6	317.2	294.7	278.5	273.8	274.8
32.5°	816.6	739.7	645.4	532.4	406.2	323.0	285.3	268.5	253.4	244.5	243.4
35°	867.4	805.1	664.8	494.2	349.2	286.3	262.8	241.8	218.8	208.9	206.2
37.5°	964.2	878.9	660.6	436.6	294.7	259.1	238.7	213.1	193.2	179.6	178.0
40°	1093.0	965.3	640.2	366.4	254.4	235.0	213.1	188.5	163.8	152.3	151.3
42.5°	1249.5	1071.0	603.0	295.2	214.1	211.0	191.1	162.8	140.8	132.4	133.0
45°	1376.7	1161.6	565.4	237.1	184.3	187.4	170.1	143.4	128.3	121.4	121.4
47.5°	1489.8	1222.8	524.5	195.8	156.5	163.8	148.7	133.0	119.9	114.6	113.6
50°	1598.7	1285.1	483.7	158.6	133.5	140.8	139.2	126.7	116.2	109.9	110.5
52.5°	1666.7	1295.1	431.9	129.8	116.7	125.1	130.3	118.8	107.3	103.6	102.6
55°	1583.5	1166.8	335.0	106.8	98.9	109.9	119.9	106.8	97.9	91.6	91.1
56°	1471.5	1043.3	280.1	98.4	93.7	105.7	116.2	102.1	92.1	88.5	85.9
57.5°	1245.9	853.8	206.8	87.4	86.9	98.4	110.5	97.4	85.9	82.7	82.7
60°	776.8	480.6	125.1	73.3	75.4	87.4	99.5	86.9	76.4	76.4	78.0
62.5°	353.9	200.0	75.9	62.3	64.9	75.4	88.5	78.5	72.8	78.5	79.6
65°	120.4	86.4	55.0	49.7	51.3	62.3	75.9	79.6	79.0	82.7	84.8
67.5°	67.5	55.5	46.1	41.4	40.3	46.1	62.3	79.6	76.4	74.9	75.9
70°	57.1	47.1	40.8	36.6	35.1	37.2	48.2	60.2	53.9	52.3	51.3
72.5°	46.1	39.3	35.6	33.0	28.3	24.1	22.0	23.0	25.7	27.2	29.8
75°	32.5	29.8	29.8	26.7	20.4	15.2	12.0	9.9	6.8	4.7	5.2
77.5°	18.3	18.3	18.8	16.2	13.1	9.9	7.3	5.2	2.6	1.0	0.5
80°	12.6	13.6	14.7	13.1	11.0	8.9	6.3	3.7	1.6	0.0	0.0
82.5°	12.6	14.1	15.2	13.1	11.0	8.4	6.3	3.7	1.6	0.5	0.0
85°	2.6	3.1	3.7	4.2	6.3	6.3	4.7	3.1	1.6	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)