

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: P526579

Luminaire Tested: **GALN-SA1C-735-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526579  
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-SA1C-735-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA 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: 3958 lumens  
Efficiency: N/A  
Efficacy: 69.4 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

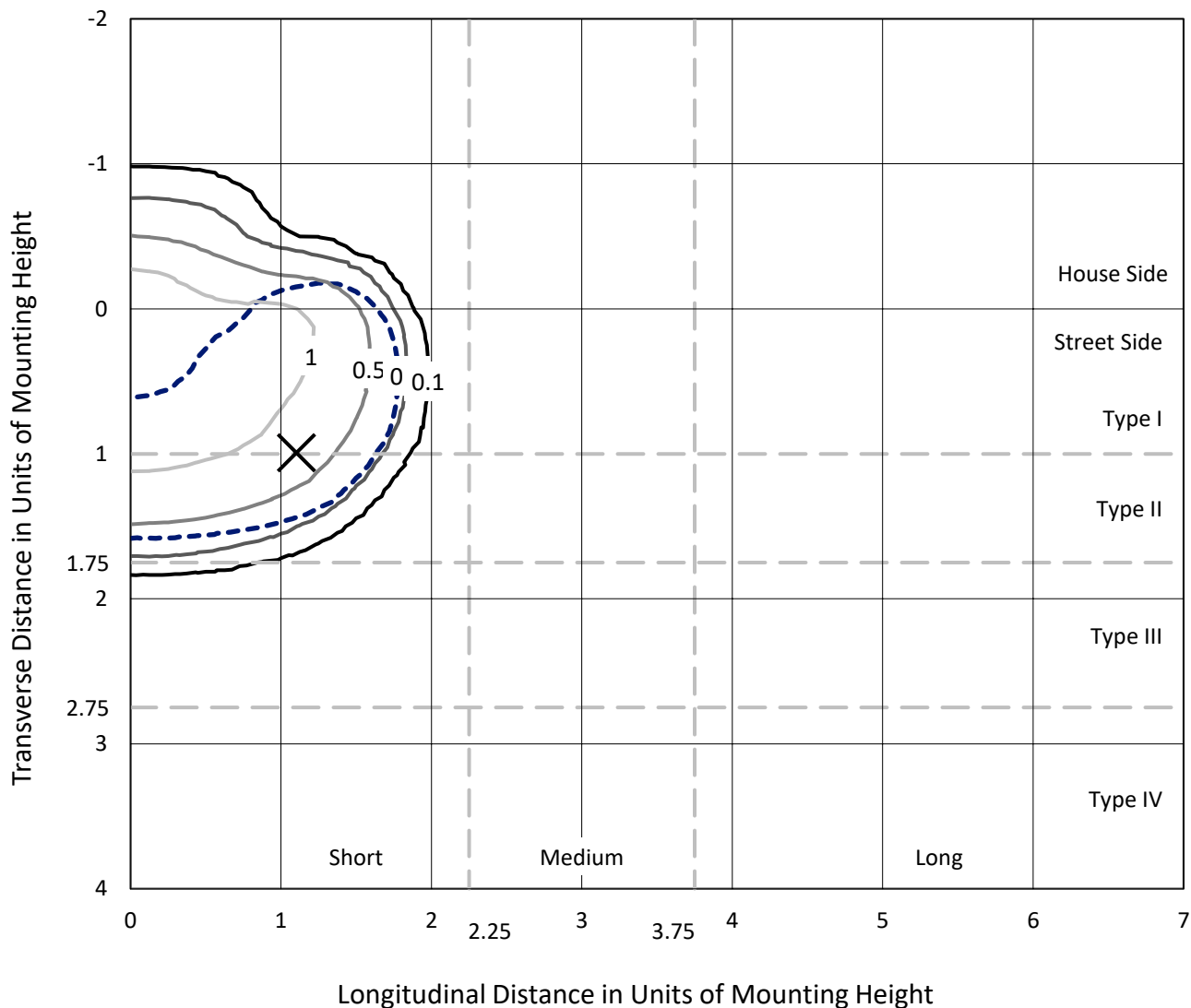
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

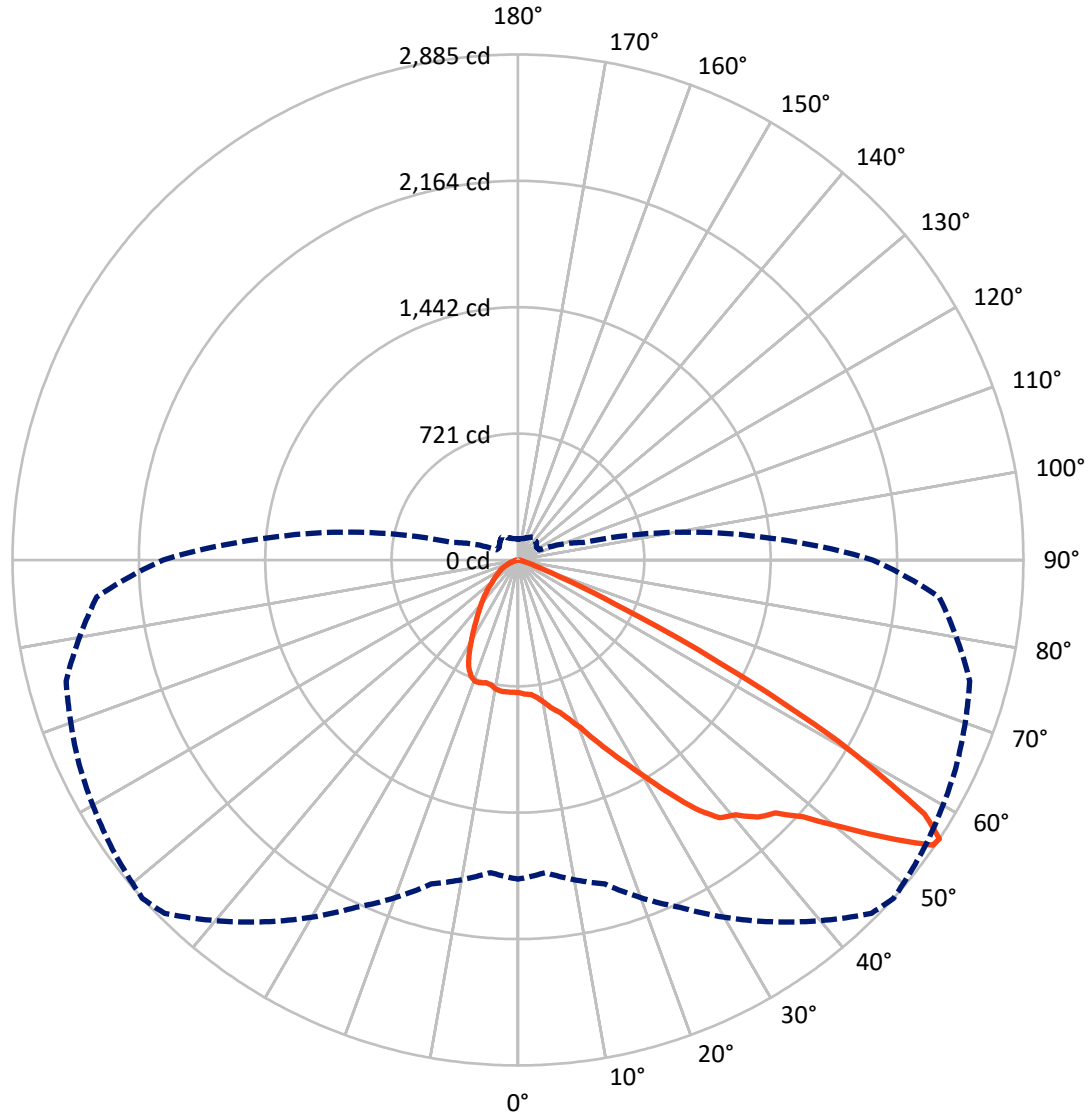
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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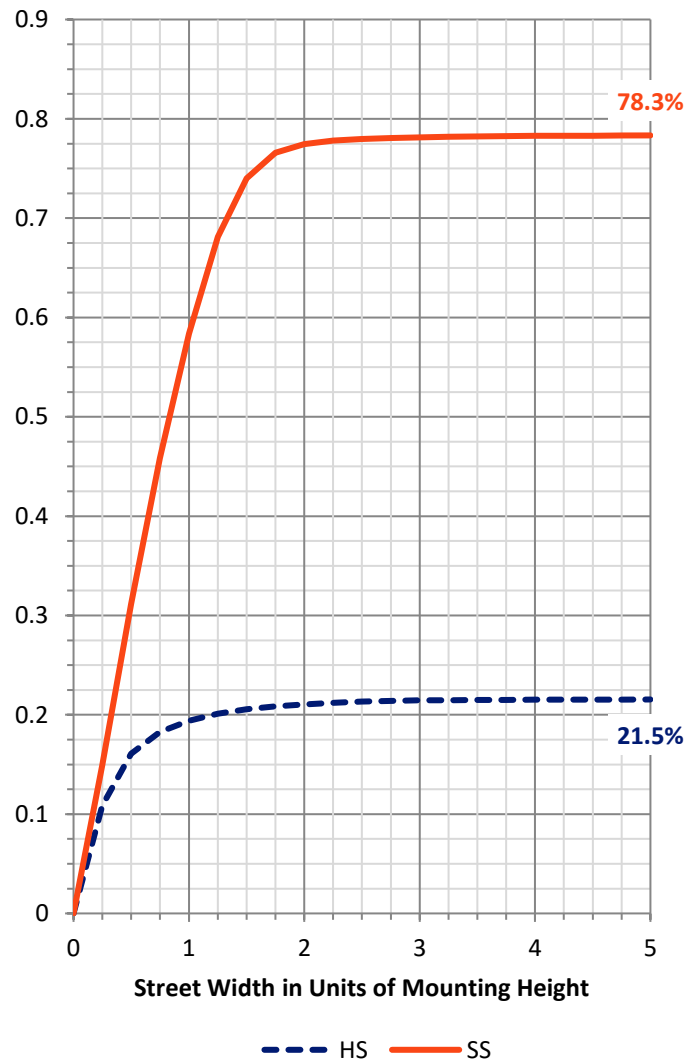
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	860.8	0.0	860.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	3097.2	0.0	3097.2
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	3958.0	0.0	3958.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.9
10°-20°	235.3	5.9
20°-30°	426.9	10.8
30°-40°	670.5	16.9
40°-50°	978.2	24.7
50°-60°	1178.5	29.8
60°-70°	345.1	8.7
70°-80°	43.8	1.1
80°-90°	6.1	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°	3958.0	100.0
0°-180°	3958.0	100.0

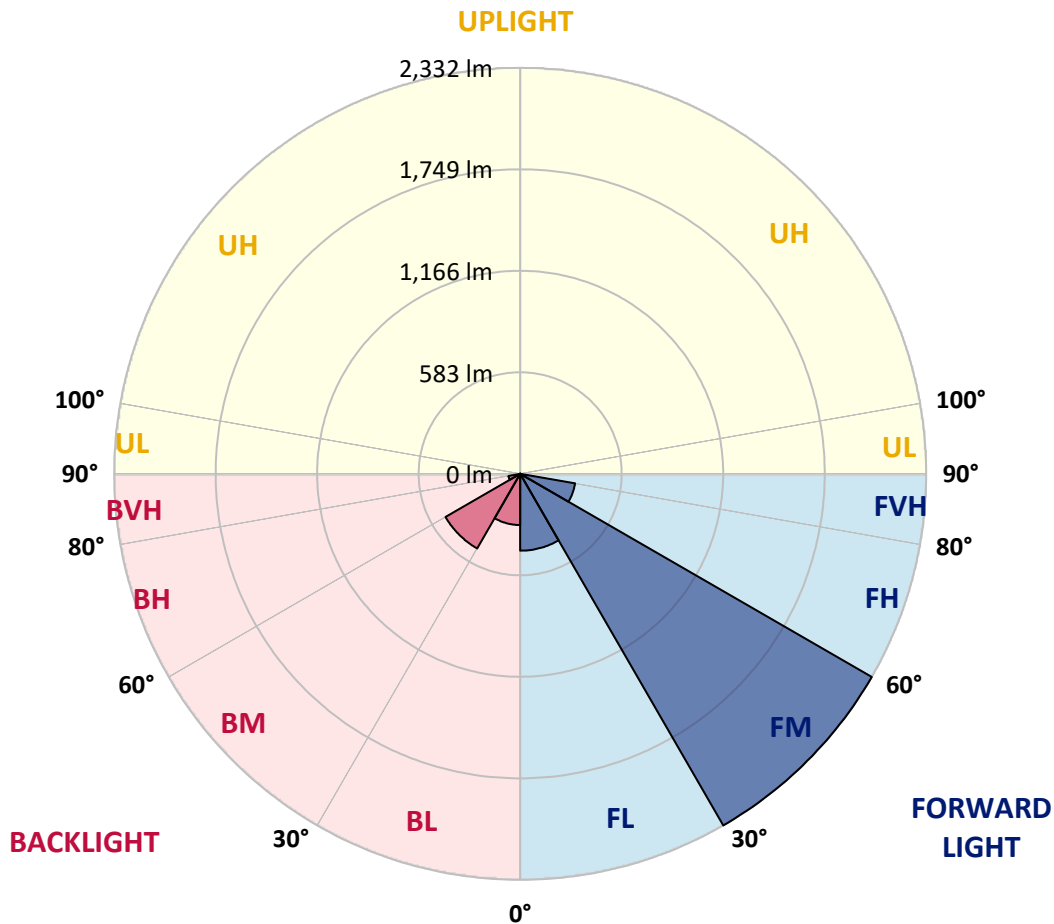


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	441.6	11.2			
FM (30°-60°)	2332.1	58.9			
FH (60°-80°)	320.4	8.1			G0/660
FVH (80°-90°)	3.1	0.1			G0/10
BL (0°-30°)	294.2	7.4	B1/500		
BM (30°-60°)	495.1	12.5	B1/1000		
BH (60°-80°)	68.4	1.7	B0/110		G0/110
BVH (80°-90°)	3.0	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°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
2.5°	769.7	766.1	766.1	760.3	766.8	763.9	766.1	758.9	766.1	755.3	763.9
5°	773.3	774.0	771.1	774.7	774.7	779.0	771.8	778.3	781.9	774.0	770.4
7.5°	792.0	793.5	792.7	789.9	795.6	794.9	794.2	789.1	790.6	787.7	783.4
10°	828.8	828.0	831.6	824.4	820.1	825.2	826.6	818.7	812.9	810.8	797.1
12.5°	882.1	873.4	868.4	861.2	863.4	856.2	869.1	855.4	852.5	839.6	825.9
15°	925.3	923.9	924.6	913.1	900.1	903.0	903.0	895.8	891.5	875.6	856.2
17.5°	1014.0	983.7	990.2	975.8	965.0	964.3	957.8	959.2	947.7	914.5	885.0
20°	1083.2	1070.2	1060.1	1035.6	1019.0	1024.1	1021.2	1014.0	1010.4	967.1	925.3
22.5°	1145.1	1149.5	1132.9	1126.4	1103.3	1105.5	1111.3	1104.8	1077.4	1032.7	970.7
25°	1232.3	1227.3	1205.0	1197.0	1175.4	1183.3	1205.7	1200.6	1183.3	1102.6	1006.1
27.5°	1335.4	1318.1	1322.4	1286.4	1265.5	1287.8	1314.5	1339.7	1290.7	1184.8	1047.8
30°	1408.2	1390.2	1388.7	1387.3	1382.2	1408.2	1439.2	1462.2	1422.6	1266.9	1117.0
32.5°	1444.2	1448.5	1460.8	1456.5	1500.4	1553.8	1586.2	1619.3	1569.6	1401.0	1208.6
35°	1540.1	1512.7	1540.1	1542.9	1588.4	1701.5	1742.6	1821.8	1809.6	1590.5	1320.3
37.5°	1596.3	1594.1	1597.7	1625.1	1669.1	1808.9	1867.2	1928.5	1905.4	1704.4	1459.4
40°	1689.2	1695.0	1694.3	1715.2	1763.5	1889.6	1913.4	1963.1	1965.3	1862.2	1664.0
42.5°	1838.4	1815.4	1800.2	1821.8	1889.6	1959.5	2007.1	1997.0	2068.3	2053.9	1927.1
45°	1972.5	1986.2	1963.8	1999.9	2024.4	2061.8	2060.4	2082.0	2172.8	2241.3	2125.2
47.5°	2097.9	2106.5	2117.3	2141.8	2195.2	2200.9	2188.7	2179.3	2304.7	2375.3	2278.7
50°	2172.8	2180.7	2231.2	2275.1	2374.6	2387.6	2394.8	2371.0	2456.0	2464.0	2423.6
52.5°	2152.6	2161.3	2231.9	2376.8	2535.3	2654.2	2632.6	2592.2	2587.2	2618.2	2557.6
55°	1973.9	1966.0	2063.3	2288.8	2585.8	2871.1	2874.0	2831.5	2750.1	2729.2	2537.5
56°	1821.8	1790.9	1914.8	2187.2	2520.9	2852.4	2884.8	2839.4	2763.0	2669.4	2412.8
57.5°	1492.5	1522.0	1645.3	1870.9	2296.8	2717.6	2736.4	2725.6	2667.9	2510.8	2123.1
60°	823.0	874.9	983.7	1259.7	1635.2	2085.6	2100.7	2188.7	2199.5	1922.7	1460.8
62.5°	349.5	343.8	456.9	660.1	931.1	1259.0	1287.1	1377.2	1393.8	1108.4	732.9
65°	142.0	149.9	206.8	332.2	492.2	573.7	613.3	642.8	697.6	457.6	270.3
67.5°	93.7	93.0	121.8	189.5	265.2	255.8	255.8	270.3	250.1	186.7	116.7
70°	67.0	69.2	87.2	131.2	165.0	122.5	117.5	112.4	127.6	123.2	94.4
72.5°	44.0	46.8	58.4	78.6	85.8	67.0	67.0	80.7	105.2	99.5	77.1
75°	28.8	29.5	36.0	45.4	42.5	34.6	38.2	54.1	76.4	73.5	54.8
77.5°	19.5	20.2	24.5	29.5	23.8	19.5	20.9	27.4	37.5	37.5	28.8
80°	7.2	7.9	10.1	9.4	10.8	13.7	15.1	18.7	22.3	22.3	19.5
82.5°	0.0	0.7	2.2	5.0	7.9	10.8	12.3	14.4	16.6	18.7	18.0
85°	0.0	0.7	2.2	3.6	5.8	6.5	7.2	5.0	4.3	4.3	3.6
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4	0.7	0.7
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°	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0	756.0
2.5°	756.0	755.3	755.3	753.1	757.4	755.3	756.7	756.0	746.6	753.8	748.8
5°	763.9	769.0	761.0	759.6	753.8	756.0	756.0	748.8	755.3	754.5	753.1
7.5°	784.1	775.4	766.8	758.1	756.7	754.5	746.6	743.7	748.8	743.0	751.7
10°	792.7	794.2	781.2	769.7	758.9	743.7	732.9	726.4	718.5	727.2	732.2
12.5°	832.4	818.0	795.6	777.6	740.8	725.7	714.9	712.0	725.7	728.6	723.5
15°	846.1	843.9	815.1	774.7	736.5	718.5	720.7	714.9	716.3	709.1	710.6
17.5°	874.2	849.7	815.8	765.3	735.8	731.5	718.5	695.4	682.5	676.7	681.8
20°	905.2	881.4	832.4	769.0	742.3	730.8	688.2	660.1	633.5	619.1	619.8
22.5°	932.5	903.0	825.2	770.4	748.1	700.5	649.3	593.8	560.7	538.3	539.1
25°	965.7	923.9	828.0	773.3	732.9	652.2	578.7	524.6	485.0	469.9	474.9
27.5°	984.4	936.9	843.9	779.8	693.3	583.7	504.5	454.0	431.0	423.8	423.0
30°	1040.6	965.7	863.4	766.8	627.0	510.2	436.7	405.7	383.4	376.9	378.4
32.5°	1124.2	1018.3	888.6	732.9	559.2	444.7	392.8	369.7	348.8	336.6	335.1
35°	1194.1	1108.4	915.2	680.3	480.7	394.2	361.8	332.9	301.2	287.5	283.9
37.5°	1327.5	1210.0	909.5	601.0	405.7	356.7	328.6	293.3	265.9	247.2	245.0
40°	1504.8	1328.9	881.4	504.5	350.2	323.6	293.3	259.4	225.6	209.7	208.3
42.5°	1720.2	1474.5	830.2	406.5	294.8	290.4	263.0	224.1	193.9	182.3	183.0
45°	1895.4	1599.2	778.3	326.5	253.7	258.0	234.2	197.5	176.6	167.2	167.2
47.5°	2051.0	1683.5	722.1	269.5	215.5	225.6	204.7	183.0	165.0	157.8	156.4
50°	2200.9	1769.2	665.9	218.4	183.8	193.9	191.7	174.4	160.0	151.3	152.1
52.5°	2294.6	1782.9	594.6	178.7	160.7	172.2	179.4	163.6	147.7	142.7	141.3
55°	2180.0	1606.4	461.2	147.0	136.2	151.3	165.0	147.0	134.8	126.1	125.4
56°	2025.8	1436.3	385.6	135.5	129.0	145.6	160.0	140.5	126.8	121.8	118.2
57.5°	1715.2	1175.4	284.7	120.4	119.6	135.5	152.1	134.0	118.2	113.9	113.9
60°	1069.5	661.6	172.2	100.9	103.8	120.4	136.9	119.6	105.2	105.2	107.4
62.5°	487.2	275.3	104.5	85.8	89.4	103.8	121.8	108.1	100.2	108.1	109.5
65°	165.8	118.9	75.7	68.5	70.6	85.8	104.5	109.5	108.8	113.9	116.7
67.5°	93.0	76.4	63.4	56.9	55.5	63.4	85.8	109.5	105.2	103.1	104.5
70°	78.6	64.9	56.2	50.4	48.3	51.2	66.3	82.9	74.2	72.1	70.6
72.5°	63.4	54.1	49.0	45.4	38.9	33.2	30.3	31.7	35.3	37.5	41.1
75°	44.7	41.1	41.1	36.8	28.1	20.9	16.6	13.7	9.4	6.5	7.2
77.5°	25.2	25.2	25.9	22.3	18.0	13.7	10.1	7.2	3.6	1.4	0.7
80°	17.3	18.7	20.2	18.0	15.1	12.3	8.6	5.0	2.2	0.0	0.0
82.5°	17.3	19.5	20.9	18.0	15.1	11.5	8.6	5.0	2.2	0.7	0.0
85°	3.6	4.3	5.0	5.8	8.6	8.6	6.5	4.3	2.2	0.7	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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)