

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: P526762

Luminaire Tested: **GALN-SA1D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5582 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

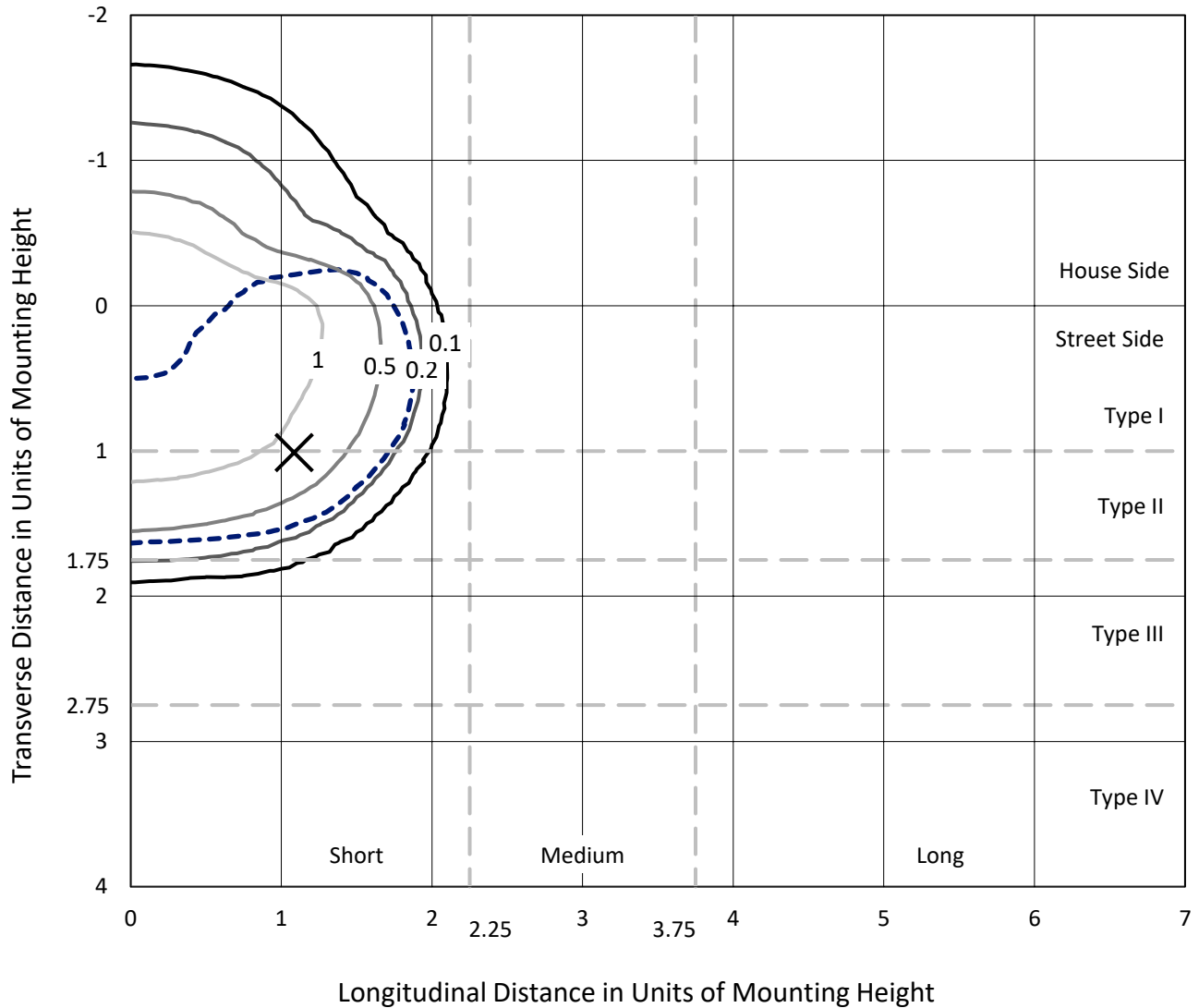
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

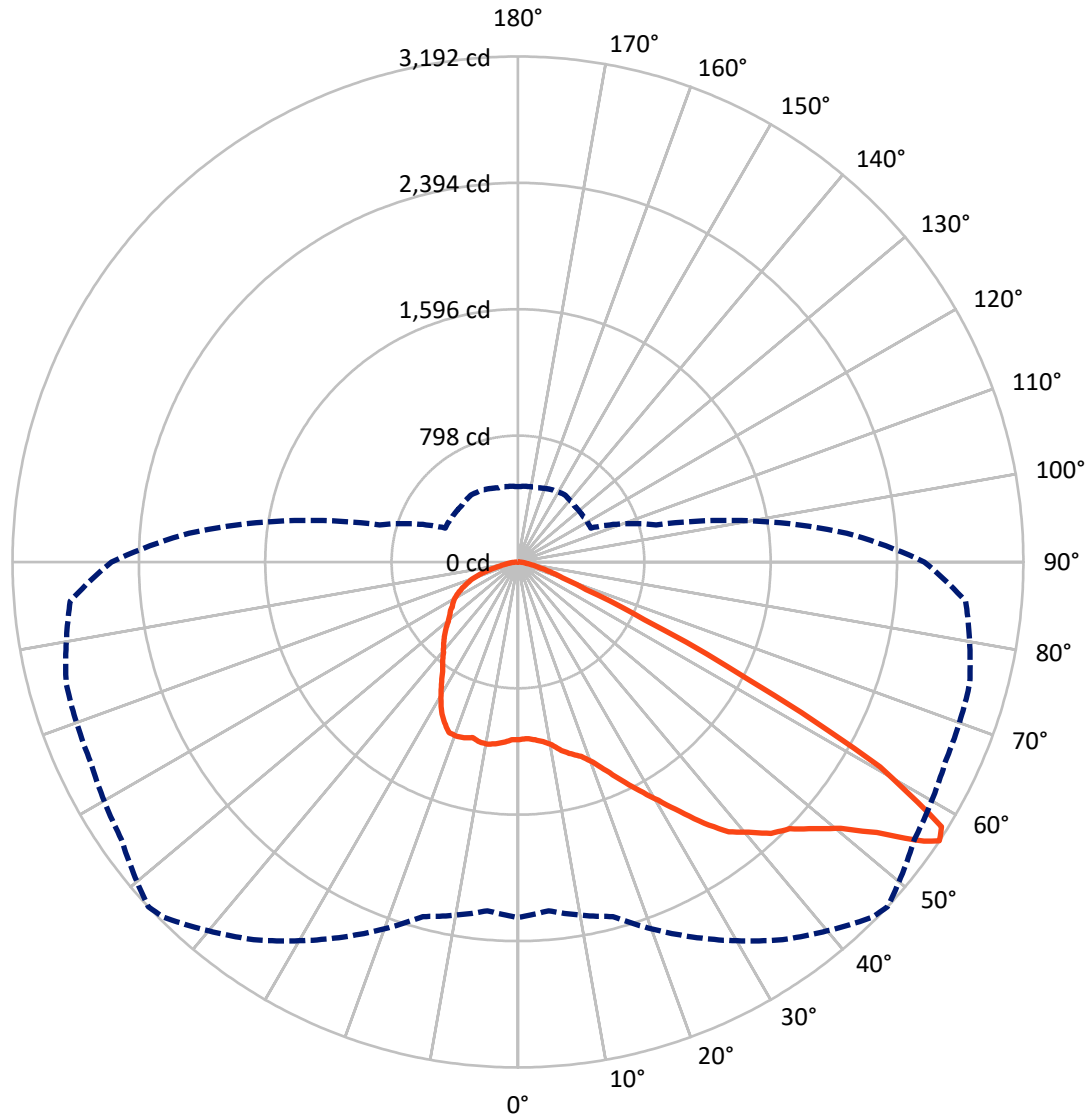
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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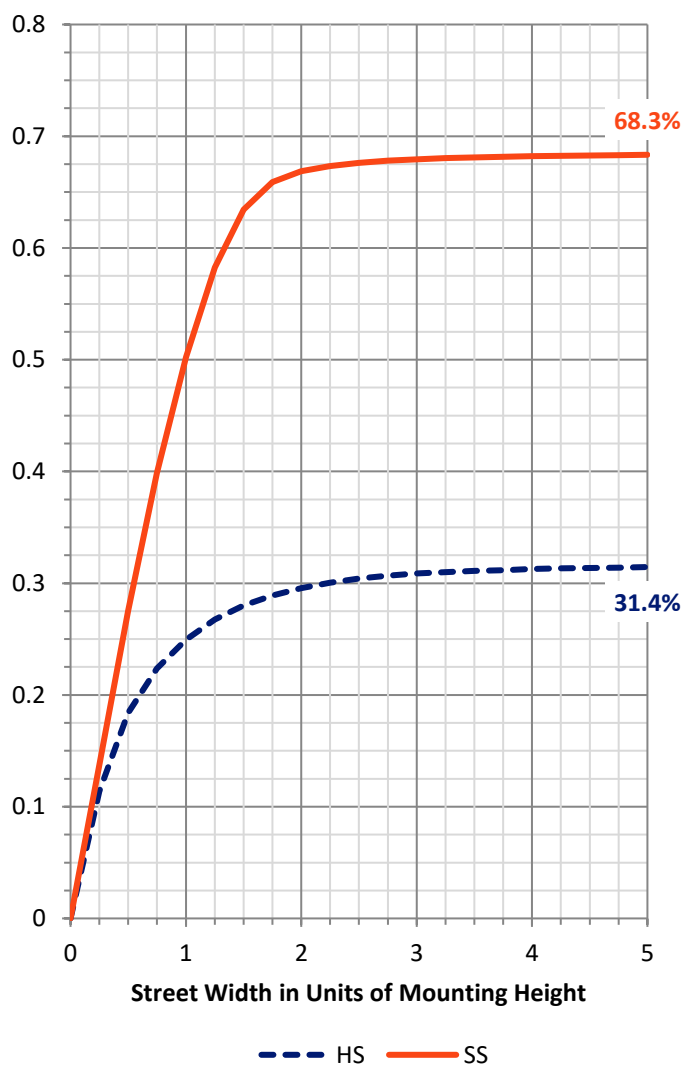
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1768.9	0.0	1768.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	3813.1	0.0	3813.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	5582.0	0.0	5582.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	2.0
10°-20°	344.6	6.2
20°-30°	609.2	10.9
30°-40°	915.0	16.4
40°-50°	1255.8	22.5
50°-60°	1496.1	26.8
60°-70°	640.3	11.5
70°-80°	181.2	3.2
80°-90°	30.5	0.5
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°	5582.0	100.0
0°-180°	5582.0	100.0

**Coefficient of Utilization**

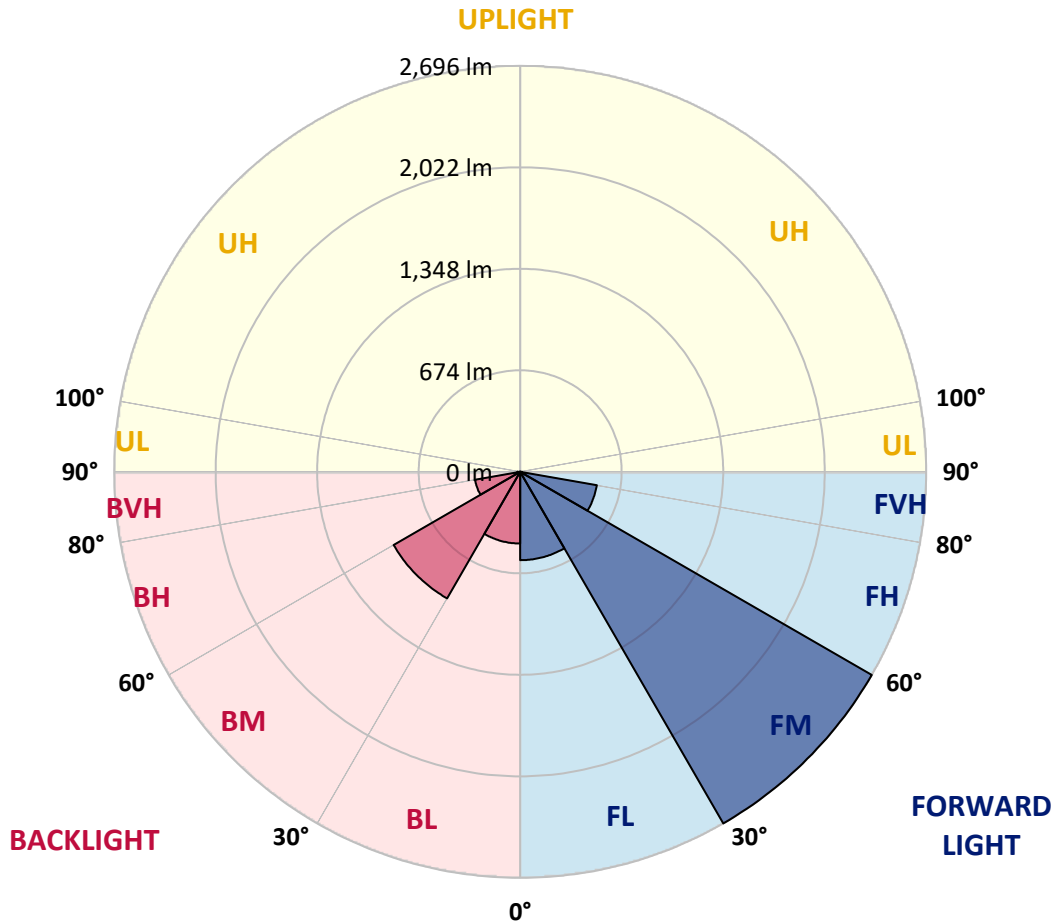


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	586.9	10.5			
FM (30°-60°)	2696.2	48.3			
FH (60°-80°)	517.1	9.3			G0/660
FVH (80°-90°)	12.9	0.2			G1/100
BL (0°-30°)	476.3	8.5	B1/500		
BM (30°-60°)	970.7	17.4	B1/1000		
BH (60°-80°)	304.3	5.5	B1/500		G1/500
BVH (80°-90°)	17.5	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°	47°	55°	65°	75°	85°
0°	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3
2.5°	1117.0	1114.8	1113.4	1124.8	1120.5	1121.3	1117.0	1121.3	1124.1	1117.7	1126.9
5°	1114.8	1121.3	1115.6	1119.1	1128.4	1125.5	1128.4	1136.9	1134.8	1132.6	1129.8
7.5°	1134.8	1135.5	1139.8	1141.2	1144.0	1141.2	1145.5	1153.3	1151.2	1139.1	1140.5
10°	1163.3	1164.7	1165.4	1173.2	1178.2	1178.9	1173.9	1166.8	1166.1	1182.5	1171.1
12.5°	1196.0	1192.4	1201.0	1203.8	1209.5	1215.9	1222.3	1207.4	1216.6	1217.4	1203.8
15°	1243.7	1247.3	1237.3	1237.3	1239.4	1240.1	1257.9	1250.8	1249.4	1241.6	1247.3
17.5°	1314.9	1290.7	1290.0	1280.0	1278.6	1284.3	1290.7	1296.4	1315.6	1299.9	1269.3
20°	1366.9	1372.6	1351.9	1339.8	1341.9	1354.8	1348.4	1374.0	1387.5	1361.9	1332.0
22.5°	1458.7	1439.5	1444.5	1417.4	1419.5	1433.1	1432.4	1458.7	1466.5	1426.0	1382.5
25°	1520.6	1515.7	1519.9	1498.6	1501.4	1512.1	1529.2	1572.6	1559.8	1514.9	1414.6
27.5°	1611.0	1601.1	1597.5	1589.7	1586.8	1615.3	1635.3	1681.5	1672.3	1606.8	1471.5
30°	1703.6	1697.2	1700.7	1668.7	1680.1	1740.6	1746.3	1809.7	1805.4	1690.1	1534.9
32.5°	1767.7	1771.2	1777.6	1759.8	1810.4	1858.8	1878.0	1949.9	1953.5	1833.2	1657.3
35°	1870.9	1858.8	1862.3	1883.0	1906.5	1994.8	2026.1	2073.8	2103.7	1983.4	1774.8
37.5°	1935.7	1948.5	1933.5	1966.3	2027.5	2133.6	2162.1	2211.2	2242.5	2131.5	1935.0
40°	2036.8	2016.1	2026.8	2050.3	2112.9	2251.1	2243.2	2293.8	2303.7	2257.5	2084.5
42.5°	2145.7	2135.7	2120.8	2174.2	2226.8	2327.2	2342.9	2319.4	2369.9	2380.6	2298.0
45°	2276.0	2288.1	2290.2	2291.6	2337.9	2425.5	2404.1	2383.5	2441.8	2519.4	2430.5
47.5°	2397.0	2358.5	2386.3	2424.8	2490.3	2491.0	2515.9	2466.8	2528.7	2597.8	2550.1
50°	2437.6	2419.1	2456.1	2528.7	2629.8	2640.5	2643.3	2573.5	2605.6	2660.4	2591.3
52.5°	2421.9	2415.5	2510.2	2622.7	2770.7	2824.8	2839.1	2752.9	2770.7	2745.8	2682.5
55°	2347.2	2366.4	2461.8	2691.0	2918.1	3085.4	3112.5	3003.5	2890.3	2909.6	2839.8
56°	2244.6	2211.2	2318.0	2613.4	2911.7	3170.1	3192.2	3056.2	2979.3	2954.4	2838.4
57.5°	1904.4	1860.9	2001.2	2351.4	2750.1	3138.1	3154.5	3078.3	2964.4	2913.8	2631.2
60°	1114.8	1136.2	1314.2	1621.7	2121.5	2572.8	2627.7	2683.2	2607.0	2380.6	1958.5
62.5°	538.2	524.7	652.1	929.8	1292.8	1642.4	1626.0	1781.9	1867.3	1691.5	1236.6
65°	281.9	280.5	356.0	507.6	710.5	862.8	877.8	961.8	1079.3	871.4	627.9
67.5°	207.2	212.9	250.6	356.7	457.0	466.3	464.2	506.2	517.6	437.8	385.9
70°	162.3	165.2	192.9	271.2	340.3	304.7	298.3	303.3	336.7	351.0	333.9
72.5°	117.5	120.3	143.8	183.0	212.9	207.9	212.1	239.9	281.2	296.2	278.4
75°	78.3	80.4	93.3	111.8	126.0	136.0	143.8	175.8	214.3	222.8	214.3
77.5°	54.1	56.2	64.8	79.0	80.4	86.9	89.7	104.7	128.1	138.8	133.1
80°	30.6	30.6	34.9	40.6	49.8	58.4	59.8	71.9	82.6	89.7	91.1
82.5°	14.2	15.0	18.5	24.9	32.7	40.6	42.0	49.8	57.7	64.8	66.9
85°	7.1	7.8	10.7	15.0	19.9	24.2	23.5	24.2	25.6	24.2	24.9
87.5°	2.1	2.1	2.8	3.6	2.8	3.6	3.6	4.3	5.0	5.7	6.4
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°	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3	1121.3
2.5°	1127.7	1129.8	1115.6	1129.1	1124.1	1123.4	1133.4	1131.9	1135.5	1134.1	1125.5
5°	1128.4	1123.4	1138.3	1124.8	1131.2	1144.7	1135.5	1156.8	1146.2	1153.3	1137.6
7.5°	1150.4	1151.9	1149.0	1154.7	1151.9	1158.3	1153.3	1158.3	1149.7	1150.4	1164.7
10°	1169.7	1165.4	1170.4	1163.3	1168.2	1166.1	1154.7	1151.2	1154.0	1150.4	1159.7
12.5°	1205.3	1197.4	1193.9	1185.3	1179.6	1158.3	1140.5	1130.5	1144.0	1146.2	1141.9
15°	1241.6	1242.3	1225.9	1206.7	1171.1	1139.1	1143.3	1146.9	1146.9	1152.6	1141.9
17.5°	1264.3	1264.3	1249.4	1211.0	1174.6	1156.1	1151.9	1140.5	1130.5	1129.1	1128.4
20°	1304.2	1292.1	1257.9	1210.2	1173.2	1164.7	1132.6	1105.6	1084.9	1077.8	1077.1
22.5°	1349.8	1319.2	1271.5	1211.7	1171.1	1159.0	1099.2	1058.6	1021.6	1005.9	1008.1
25°	1391.8	1342.7	1279.3	1205.3	1163.3	1104.9	1038.0	981.7	943.3	930.5	924.1
27.5°	1421.0	1367.6	1279.3	1211.0	1134.1	1044.4	976.0	904.1	870.7	862.1	863.5
30°	1460.1	1398.9	1301.4	1198.9	1075.7	966.1	884.2	837.2	817.3	810.2	815.1
32.5°	1552.0	1480.8	1332.0	1169.7	1006.6	887.7	821.5	795.2	766.0	751.8	746.8
35°	1651.6	1558.4	1361.9	1120.5	929.0	816.6	775.3	751.1	716.2	700.5	703.4
37.5°	1792.6	1658.0	1364.0	1039.4	845.0	776.7	739.0	701.2	672.8	648.5	641.4
40°	1982.7	1794.0	1359.0	954.0	777.4	729.7	701.9	655.0	622.9	605.8	609.4
42.5°	2150.0	1953.5	1338.4	857.1	716.2	697.7	666.3	620.1	588.7	570.9	569.5
45°	2290.9	2070.9	1299.2	774.6	664.9	662.1	625.8	590.2	565.3	548.9	556.0
47.5°	2421.2	2165.6	1240.1	692.0	617.9	623.6	588.7	566.7	551.0	536.1	535.4
50°	2468.2	2164.2	1188.2	623.6	580.2	577.4	575.9	552.4	536.1	523.3	528.9
52.5°	2546.5	2188.4	1131.9	576.6	546.0	546.7	551.7	534.6	516.1	508.3	515.4
55°	2659.0	2192.0	1008.1	521.8	517.6	522.5	522.5	511.1	495.5	489.1	485.5
56°	2567.1	2085.9	904.1	507.6	503.3	503.3	516.8	504.0	484.8	479.8	475.6
57.5°	2367.8	1827.5	756.8	490.5	484.1	494.1	501.2	487.7	469.9	462.7	467.0
60°	1633.1	1236.6	568.8	453.5	453.5	469.9	475.6	455.6	447.8	447.1	441.4
62.5°	953.2	720.5	444.9	420.0	421.4	435.0	439.2	427.9	417.9	430.0	435.7
65°	505.5	430.0	381.6	384.4	385.1	395.8	414.3	413.6	412.9	416.5	417.2
67.5°	365.9	357.4	346.7	343.9	345.3	353.1	371.6	385.9	385.1	376.6	370.2
70°	326.1	314.0	307.5	308.3	302.6	311.8	326.8	336.0	319.6	309.7	305.4
72.5°	271.2	267.7	263.4	264.1	252.7	250.6	233.5	233.5	229.2	226.4	231.4
75°	207.2	205.7	207.9	204.3	192.2	179.4	169.4	160.2	145.9	140.2	137.4
77.5°	131.0	135.3	140.2	132.4	127.4	118.2	108.2	99.0	87.6	81.2	81.2
80°	89.0	92.5	96.1	94.7	89.0	80.4	72.6	62.6	54.8	49.8	49.1
82.5°	67.6	70.5	75.5	69.8	64.1	57.0	50.5	43.4	36.3	30.6	30.6
85°	24.2	27.8	30.6	33.5	35.6	36.3	31.3	25.6	20.6	16.4	15.7
87.5°	6.4	7.1	7.8	7.1	7.1	7.1	7.8	7.1	6.4	5.0	5.0
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)