

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P632557

Luminaire Tested: GWS-SA2C-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

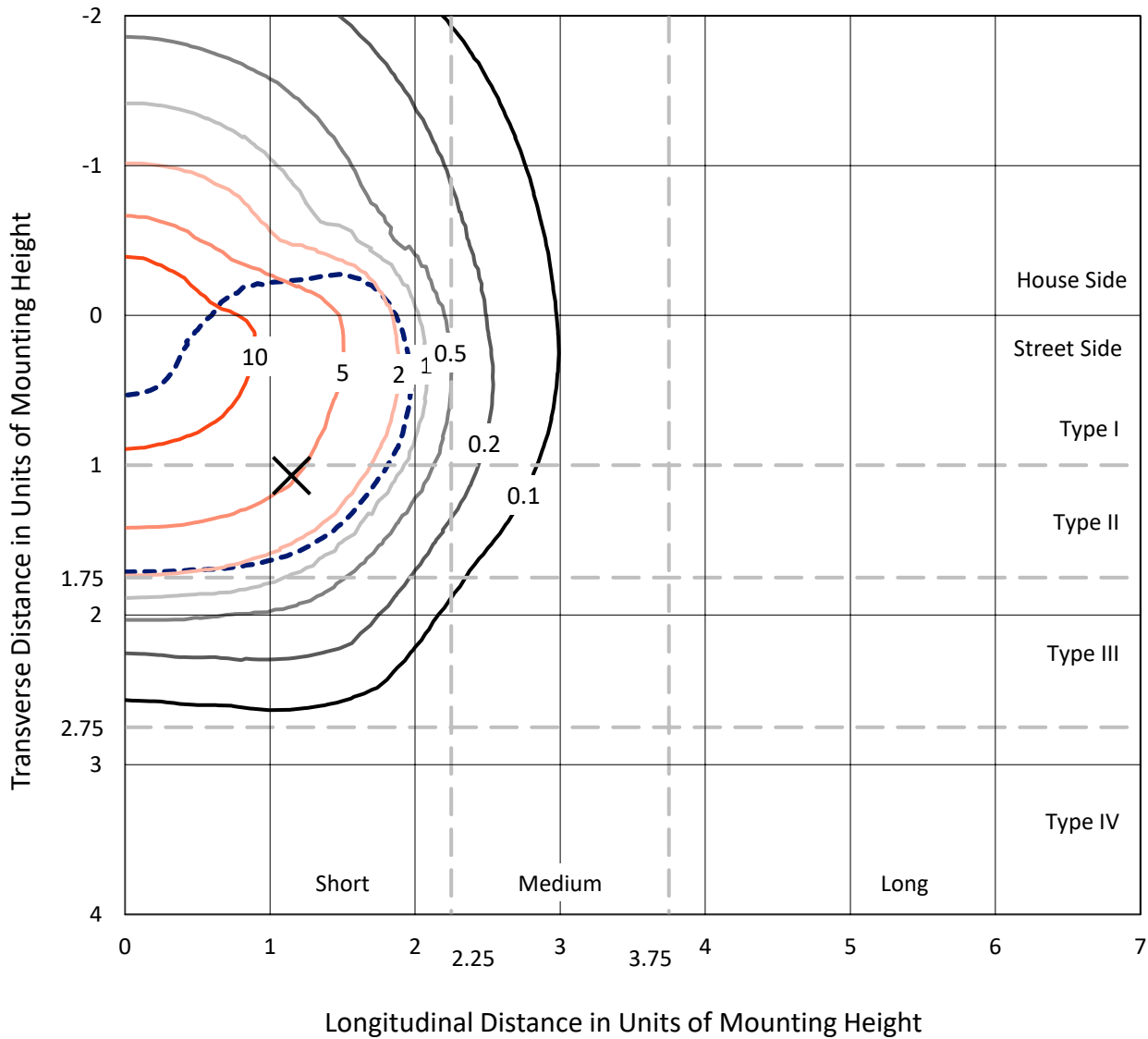
Lumens per Lamp: N/A  
Luminaire Lumens: 6275.2 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

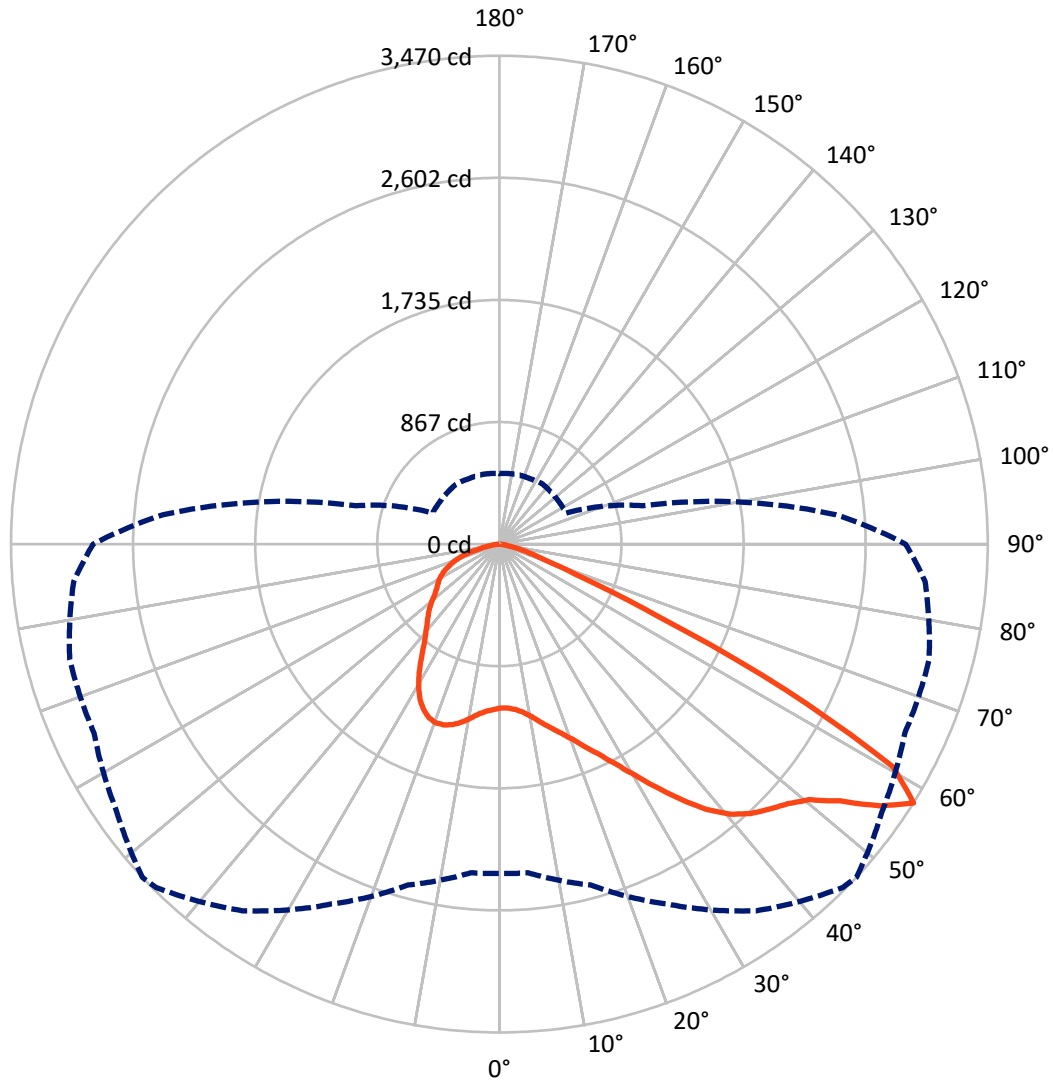
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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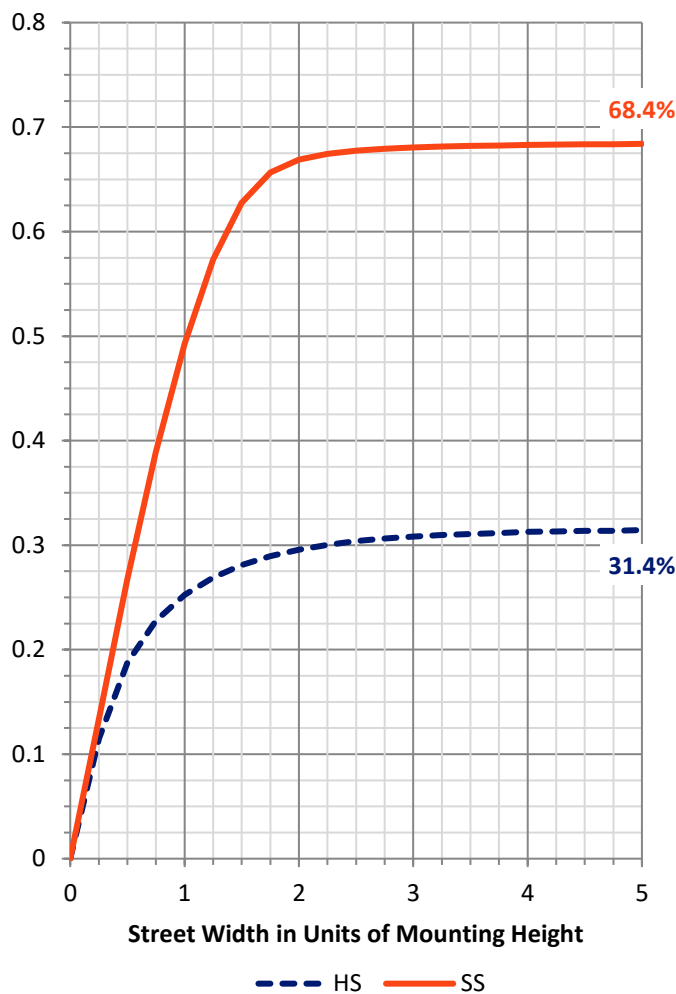
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1986.1	0.0	1986.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4289.1	0.0	4289.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6275.2	0.0	6275.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.8	1.8
10°-20°	377.5	6.0
20°-30°	679.8	10.8
30°-40°	1026.7	16.4
40°-50°	1382.6	22.0
50°-60°	1661.4	26.5
60°-70°	809.1	12.9
70°-80°	199.3	3.2
80°-90°	24.0	0.4
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°	6275.2	100.0
0°-180°	6275.2	100.0

**Coefficient of Utilization**



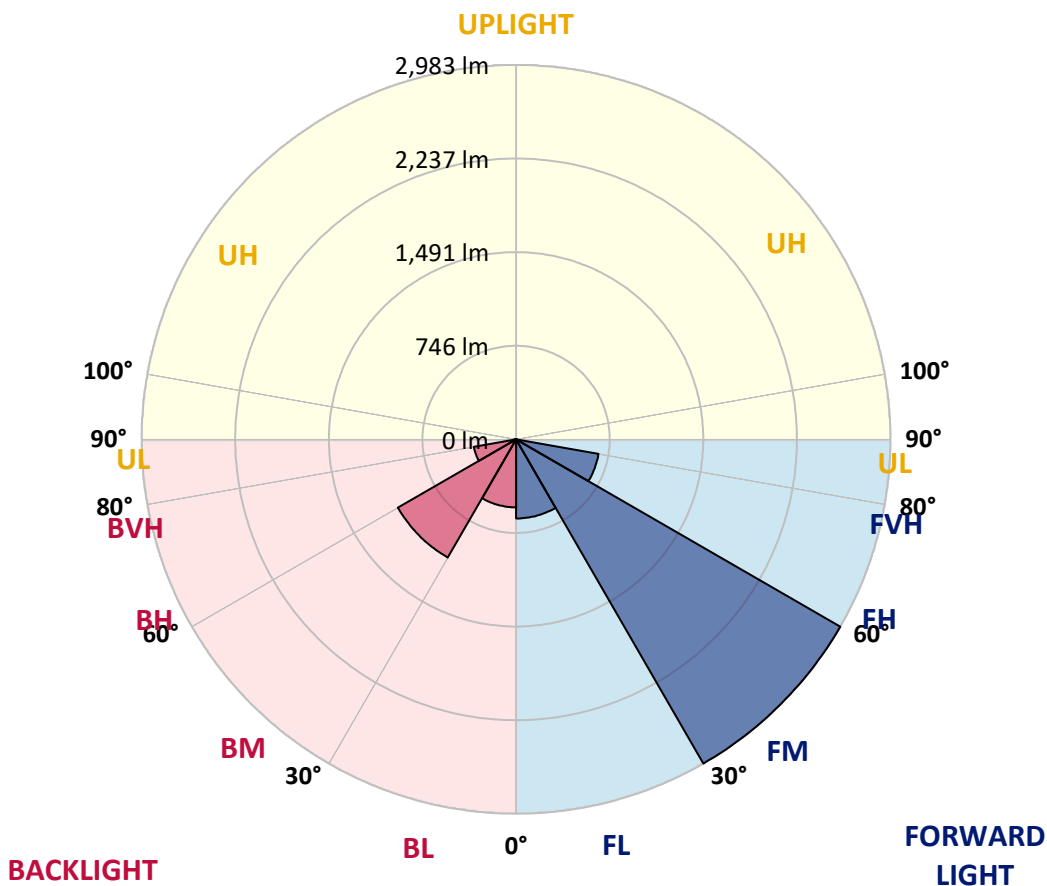
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.3	10.0			
FM (30°-60°)	2982.9	47.5			
FH (60°-80°)	666.9	10.6			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	541.8	8.6	B2/1000		
BM (30°-60°)	1087.8	17.3	B2/2500		
BH (60°-80°)	341.6	5.4	B1/500		G1/500
BVH (80°-90°)	14.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7
2.5°	1161.6	1161.1	1161.1	1164.3	1164.3	1165.3	1166.9	1168.5	1169.0	1166.4	1160.6
5°	1174.3	1174.3	1174.3	1176.9	1176.9	1178.0	1180.1	1180.6	1180.1	1175.9	1170.1
7.5°	1194.3	1194.3	1194.8	1198.0	1200.6	1202.2	1205.9	1205.4	1203.8	1196.9	1189.6
10°	1227.0	1228.6	1230.2	1233.8	1239.1	1242.8	1245.4	1245.4	1243.3	1232.8	1223.3
12.5°	1273.4	1275.5	1277.1	1280.2	1284.4	1290.8	1296.6	1296.6	1293.9	1280.8	1266.5
15°	1327.7	1329.8	1329.2	1330.3	1338.2	1347.2	1351.9	1355.1	1356.1	1337.7	1315.5
17.5°	1389.9	1392.0	1389.9	1386.7	1387.7	1402.0	1410.4	1422.0	1428.9	1404.1	1368.8
20°	1446.2	1444.1	1444.1	1446.2	1449.4	1466.8	1479.5	1498.4	1506.9	1476.8	1422.0
22.5°	1505.8	1510.5	1508.4	1508.4	1521.1	1550.1	1565.4	1590.1	1599.1	1560.1	1486.3
25°	1582.8	1587.0	1585.9	1587.0	1601.7	1642.8	1658.1	1704.0	1712.9	1657.1	1557.5
27.5°	1667.1	1673.9	1677.1	1676.0	1699.8	1753.5	1772.5	1836.3	1852.6	1765.6	1633.4
30°	1776.7	1784.1	1786.7	1785.7	1813.6	1886.9	1908.5	1981.2	2004.4	1894.2	1729.8
32.5°	1903.7	1911.1	1919.0	1922.2	1958.0	2032.9	2064.0	2139.3	2172.5	2042.9	1846.3
35°	2029.7	2036.0	2051.3	2076.1	2125.1	2201.5	2228.9	2303.2	2335.4	2197.3	1987.0
37.5°	2168.8	2173.1	2186.2	2220.5	2291.1	2363.9	2391.3	2462.4	2466.1	2346.5	2146.2
40°	2321.2	2321.2	2318.5	2352.3	2426.0	2499.3	2523.0	2564.1	2542.5	2461.4	2301.1
42.5°	2450.3	2448.2	2450.3	2481.9	2536.7	2596.3	2616.8	2608.9	2581.5	2549.4	2441.3
45°	2566.8	2568.4	2587.3	2611.6	2640.0	2675.3	2687.5	2642.7	2617.9	2620.0	2553.6
47.5°	2645.8	2647.4	2691.7	2732.3	2749.7	2760.7	2755.5	2693.3	2680.6	2704.3	2640.0
50°	2656.4	2664.8	2741.2	2824.5	2867.7	2869.3	2854.5	2778.7	2775.0	2801.8	2686.4
52.5°	2658.5	2666.9	2762.3	2912.5	3024.8	3048.5	3031.6	2952.6	2914.1	2887.2	2743.3
55°	2650.6	2660.1	2765.5	2971.6	3186.6	3281.5	3283.0	3171.3	3048.5	3030.6	2905.7
57.5°	2340.1	2343.8	2507.2	2821.3	3180.3	3449.1	3469.6	3317.8	3177.6	3160.8	3035.9
60°	1630.2	1644.9	1822.6	2237.4	2671.7	3145.5	3211.9	3167.6	3073.8	2951.0	2604.7
62.5°	816.4	829.1	1007.2	1399.3	1842.6	2216.8	2288.0	2334.9	2357.0	2225.2	1773.6
65°	351.5	361.0	471.7	731.0	1043.0	1223.8	1248.6	1305.0	1443.1	1287.6	955.6
67.5°	235.1	241.4	297.8	445.9	614.6	626.1	622.5	634.6	664.6	548.7	431.7
70°	180.3	185.5	223.5	326.8	441.7	377.9	357.9	324.7	352.6	359.5	350.0
72.5°	130.7	134.9	163.4	222.9	276.7	241.4	238.2	255.1	293.0	303.6	297.8
75°	84.3	86.4	103.8	122.3	142.8	155.0	161.3	191.8	230.3	238.2	231.4
77.5°	56.4	58.0	68.0	78.5	81.2	81.7	83.8	97.5	123.9	138.6	137.0
80°	29.5	29.5	33.2	33.2	37.9	45.3	47.4	56.4	68.5	75.9	76.4
82.5°	11.6	12.1	14.2	15.8	19.0	23.2	24.8	29.5	35.8	41.1	45.9
85°	4.7	5.3	5.8	6.9	8.4	10.5	11.1	12.6	16.9	21.1	23.7
87.5°	0.0	0.0	0.5	0.5	1.1	1.6	1.6	2.1	2.6	4.7	6.3
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°	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7	1163.7
2.5°	1167.4	1160.6	1167.4	1169.5	1175.3	1177.4	1173.8	1173.2	1173.2	1168.0	1166.4
5°	1175.3	1169.0	1175.9	1179.0	1187.5	1192.7	1193.8	1198.0	1200.6	1198.5	1198.0
7.5°	1194.8	1186.9	1194.3	1199.1	1210.1	1218.6	1222.2	1231.7	1238.6	1237.5	1237.0
10°	1229.1	1218.6	1227.0	1234.9	1247.0	1257.0	1257.6	1262.8	1269.7	1267.6	1266.5
12.5°	1268.6	1258.6	1268.1	1276.0	1290.2	1294.5	1287.6	1285.5	1286.5	1283.9	1281.8
15°	1317.1	1302.9	1311.3	1320.3	1328.2	1323.4	1308.7	1302.9	1302.4	1298.7	1296.6
17.5°	1365.6	1347.7	1354.0	1358.8	1355.1	1340.3	1321.9	1311.8	1307.1	1299.7	1297.6
20°	1413.6	1390.9	1389.9	1386.2	1369.3	1342.4	1317.6	1297.6	1285.5	1275.5	1271.8
22.5°	1468.4	1436.8	1420.9	1404.1	1367.2	1323.4	1286.0	1257.6	1238.1	1225.4	1221.2
25°	1527.4	1482.6	1449.9	1416.2	1346.1	1282.9	1230.7	1191.7	1168.5	1154.8	1150.0
27.5°	1585.9	1524.3	1475.2	1417.8	1303.9	1224.4	1154.3	1101.6	1078.4	1067.3	1063.6
30°	1665.0	1579.6	1505.3	1397.2	1248.6	1143.2	1055.7	1002.5	987.2	979.3	976.1
32.5°	1756.2	1649.7	1545.3	1354.0	1178.0	1048.3	956.1	919.2	908.6	893.4	892.8
35°	1876.3	1749.8	1583.3	1290.2	1088.9	946.6	879.7	853.3	834.3	810.1	808.0
37.5°	2016.5	1874.7	1603.8	1209.1	985.1	862.8	822.7	793.2	762.7	730.5	726.3
40°	2161.5	2020.7	1605.4	1113.1	883.3	807.5	773.7	735.2	697.3	661.5	656.7
42.5°	2313.8	2156.7	1577.5	1002.5	800.1	759.5	725.2	676.7	634.1	609.8	607.2
45°	2449.8	2266.4	1514.2	886.0	738.4	719.4	675.7	623.5	600.8	583.5	579.8
47.5°	2556.8	2339.1	1428.9	781.6	688.3	678.3	621.4	594.5	577.1	561.3	557.6
50°	2609.5	2355.4	1317.6	696.8	642.0	629.8	590.8	570.3	558.7	546.0	542.9
52.5°	2674.8	2373.9	1221.7	625.6	596.6	580.3	565.5	549.2	540.8	532.9	530.2
55°	2825.0	2443.4	1171.1	568.7	553.4	546.0	543.9	530.2	527.6	522.3	517.6
57.5°	2886.2	2398.6	1051.5	522.3	519.2	520.2	525.5	512.8	510.2	503.9	500.7
60°	2321.2	1813.1	712.1	482.3	490.7	497.5	502.8	490.2	486.5	485.4	481.2
62.5°	1487.4	1115.3	497.0	444.8	457.5	465.9	469.1	457.0	454.3	462.8	463.3
65°	774.2	607.7	403.2	404.8	415.3	428.0	434.3	430.1	429.0	438.0	438.5
67.5°	395.3	371.6	351.5	357.3	365.8	382.1	396.9	415.3	421.6	422.7	423.2
70°	336.8	326.2	316.2	319.9	328.9	337.8	352.1	361.0	350.5	347.9	346.8
72.5°	286.7	278.8	274.1	278.3	283.0	281.4	277.2	281.4	283.0	283.6	284.1
75°	222.9	217.1	213.5	214.0	214.0	208.2	200.3	195.5	190.3	186.1	186.1
77.5°	136.5	137.6	141.3	140.7	140.2	138.1	130.2	126.0	113.3	109.6	109.6
80°	78.0	79.6	83.3	84.3	84.3	81.7	73.8	69.0	63.2	60.6	60.1
82.5°	47.4	49.5	51.7	52.7	53.2	50.1	43.2	39.5	36.4	33.7	33.7
85°	24.8	25.8	27.9	28.5	26.9	23.7	20.0	18.4	15.3	14.8	14.8
87.5°	6.9	7.4	8.4	6.9	6.3	4.7	2.6	2.1	1.1	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

(END OF REPORT)