

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: P631328

Luminaire Tested: GWS-SA1F-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

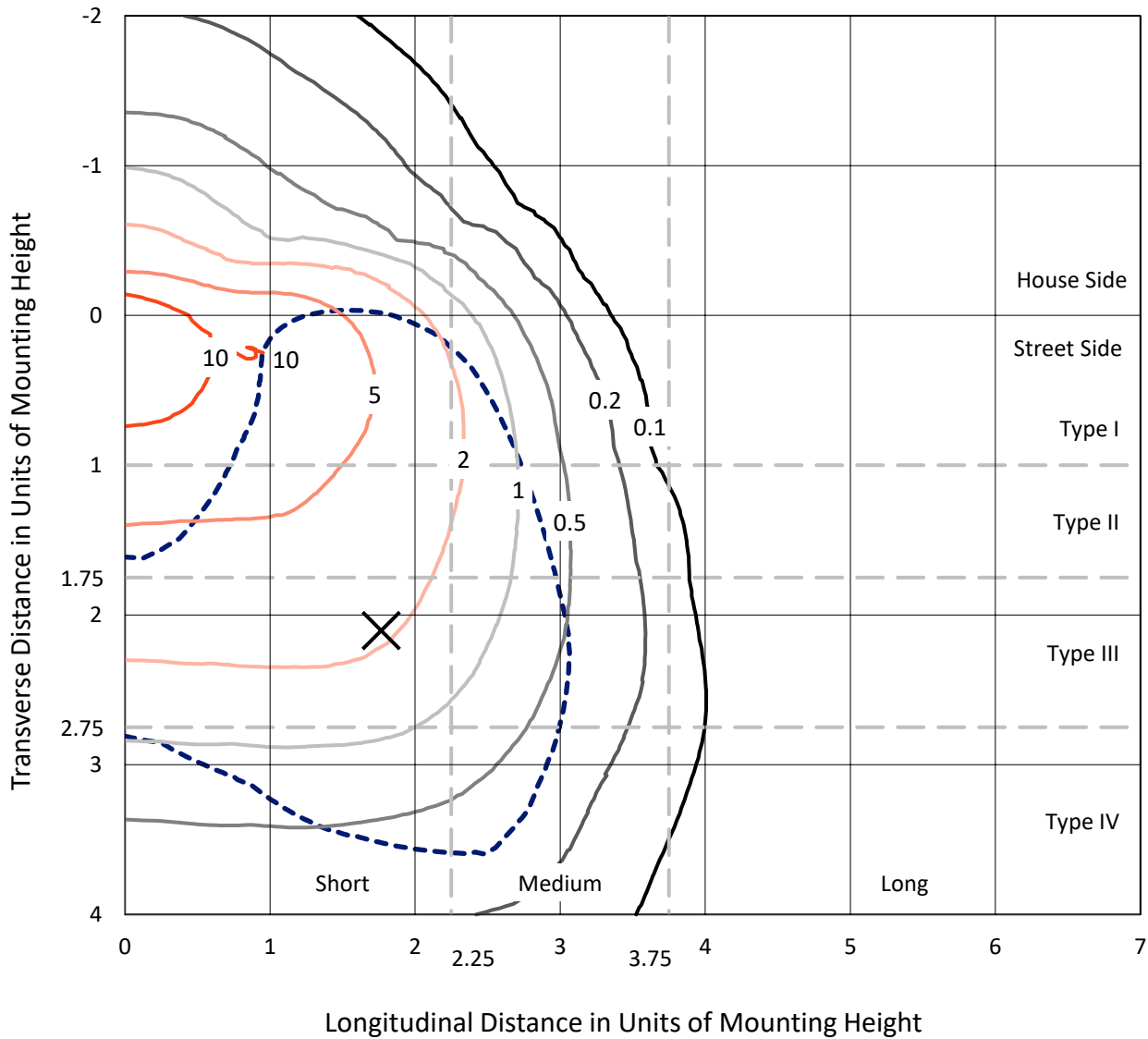
Lumens per Lamp: N/A  
Luminaire Lumens: 8091.2 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

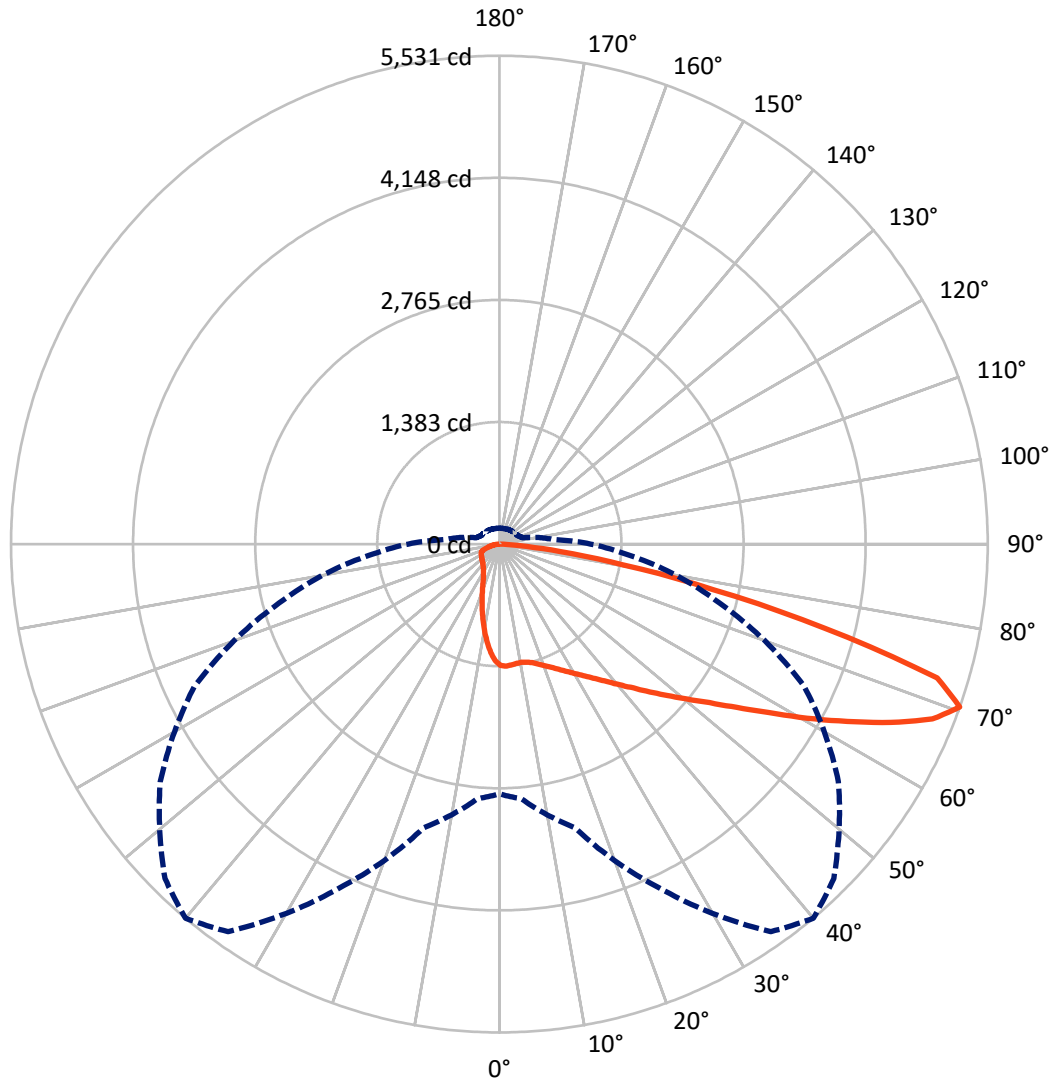
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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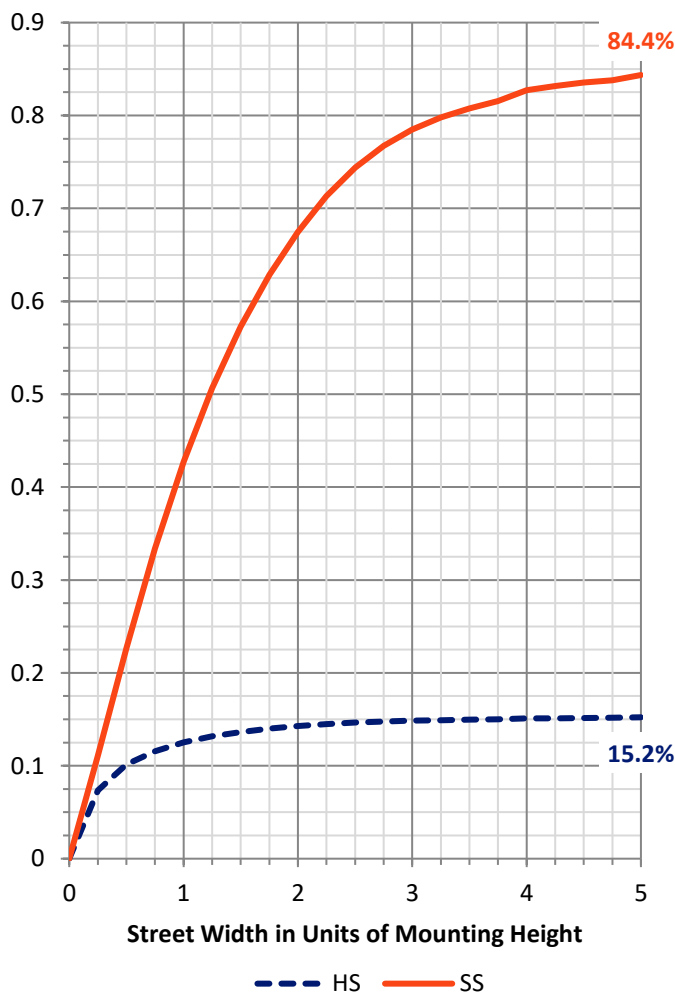
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1246.3	0.0	1246.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	6844.9	0.0	6844.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8091.2	0.0	8091.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	1.5
10°-20°	316.4	3.9
20°-30°	496.8	6.1
30°-40°	746.9	9.2
40°-50°	1152.9	14.2
50°-60°	1712.1	21.2
60°-70°	2158.1	26.7
70°-80°	1248.0	15.4
80°-90°	138.5	1.7
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°	8091.2	100.0
0°-180°	8091.2	100.0

**Coefficient of Utilization**



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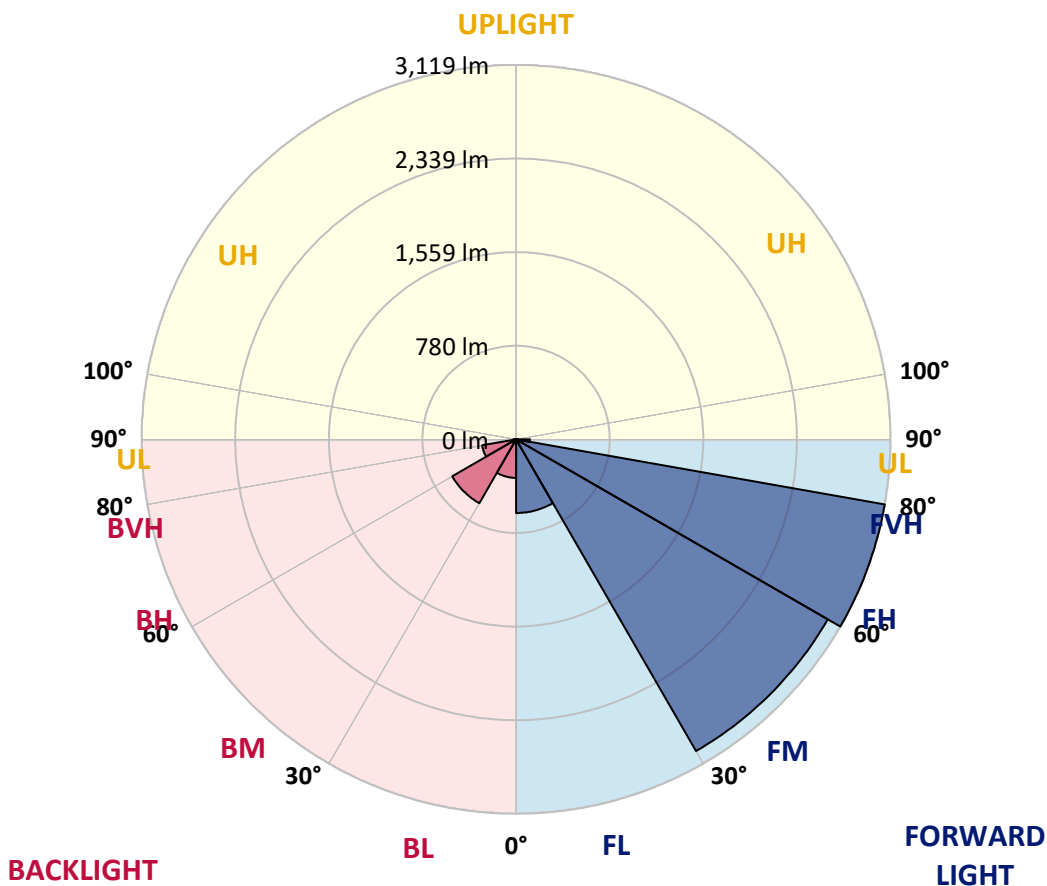
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.4	7.6			
FM (30°-60°)	2997.7	37.0			
FH (60°-80°)	3118.5	38.5			G2/5000
FVH (80°-90°)	115.4	1.4			G2/225
BL (0°-30°)	321.2	4.0	B1/500		
BM (30°-60°)	614.3	7.6	B1/1000		
BH (60°-80°)	287.6	3.6	B1/500		G1/500
BVH (80°-90°)	23.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0
2.5°	1382.4	1384.8	1386.7	1389.1	1387.9	1384.2	1387.3	1387.3	1380.6	1373.4	1366.7
5°	1384.2	1387.3	1386.7	1386.1	1381.2	1375.2	1375.2	1371.6	1360.1	1348.6	1337.7
7.5°	1380.6	1380.0	1379.4	1377.6	1372.2	1365.5	1364.3	1357.1	1342.0	1326.3	1310.6
10°	1364.3	1363.7	1365.5	1369.8	1368.5	1362.5	1362.5	1355.9	1338.3	1319.0	1298.5
12.5°	1351.0	1351.0	1358.3	1369.8	1374.0	1371.6	1372.2	1367.3	1347.4	1324.5	1300.3
15°	1352.8	1353.4	1369.1	1387.9	1395.7	1393.9	1394.5	1389.1	1366.7	1343.8	1311.2
17.5°	1364.9	1367.9	1395.1	1421.1	1431.4	1428.9	1424.7	1415.7	1390.3	1364.3	1324.5
20°	1390.3	1395.1	1430.1	1462.8	1474.8	1469.4	1462.2	1444.0	1416.3	1387.9	1338.9
22.5°	1440.4	1443.4	1482.1	1514.1	1523.8	1517.1	1502.6	1476.6	1444.6	1415.0	1356.5
25°	1511.1	1514.7	1551.5	1581.1	1578.7	1570.9	1550.9	1518.9	1480.9	1449.5	1381.8
27.5°	1595.0	1601.1	1637.3	1660.9	1645.2	1633.7	1611.3	1572.7	1529.8	1501.4	1420.5
30°	1686.8	1689.2	1720.0	1743.6	1719.4	1703.7	1676.6	1634.9	1596.2	1575.1	1478.5
32.5°	1775.6	1778.0	1804.6	1817.9	1792.5	1781.0	1757.5	1713.4	1686.2	1674.7	1564.8
35°	1869.2	1868.6	1890.4	1901.8	1875.9	1871.0	1846.9	1813.0	1808.2	1823.3	1691.1
37.5°	1962.8	1957.4	1968.9	1984.0	1969.5	1974.3	1958.6	1947.1	1965.8	2005.1	1858.9
40°	2037.7	2037.7	2049.8	2068.5	2073.3	2094.5	2085.4	2100.5	2160.9	2254.5	2066.7
42.5°	2104.1	2104.8	2130.1	2159.1	2194.1	2226.8	2234.0	2273.3	2398.3	2545.0	2327.6
45°	2173.6	2174.2	2208.6	2250.9	2325.2	2387.4	2401.9	2490.1	2668.8	2847.6	2610.9
47.5°	2253.9	2247.3	2295.0	2365.7	2471.3	2560.7	2598.2	2723.2	2949.1	3168.9	2877.8
50°	2344.5	2330.6	2383.8	2505.8	2636.2	2758.8	2821.6	2964.8	3249.8	3465.4	3129.0
52.5°	2446.6	2438.7	2494.3	2642.9	2842.2	2983.5	3068.7	3256.5	3542.1	3760.8	3328.3
55°	2573.4	2554.7	2635.0	2824.1	3083.8	3263.7	3364.6	3545.2	3861.6	4028.9	3480.5
57.5°	2712.3	2691.8	2799.3	3050.5	3397.8	3595.3	3721.5	3870.1	4162.4	4234.3	3569.9
60°	2862.1	2855.5	2982.9	3316.3	3772.3	4001.8	4092.9	4227.6	4423.9	4353.2	3547.6
62.5°	2999.2	2996.8	3182.2	3604.4	4169.0	4421.5	4494.0	4529.6	4612.3	4345.4	3370.0
65°	3143.5	3164.1	3414.7	3938.3	4623.8	4871.4	4901.6	4811.0	4675.8	4139.5	3006.4
67.5°	3161.7	3201.5	3560.9	4251.2	5055.0	5288.8	5264.6	4917.9	4488.5	3566.3	2356.6
70°	2827.7	2897.1	3327.7	4298.9	5358.8	5530.9	5356.4	4687.8	3809.1	2583.7	1482.1
72.5°	2362.6	2422.4	2802.9	3666.0	4966.9	5186.1	4949.9	3967.9	2691.8	1482.1	754.9
75°	1839.0	1908.5	2259.4	2914.0	3718.5	3806.1	3687.7	2767.3	1479.7	611.2	343.0
77.5°	1122.1	1172.3	1445.2	1974.3	2601.8	2470.7	2093.9	1551.5	649.2	292.9	212.0
80°	496.4	527.2	712.1	1060.5	1503.2	1421.1	1120.3	662.5	355.1	186.0	148.0
82.5°	266.3	286.3	350.9	419.7	660.1	690.3	559.9	381.7	190.8	106.3	84.6
85°	117.2	128.6	159.4	152.2	216.8	213.2	215.0	262.1	91.2	48.9	55.0
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	6.6	35.0	9.1	14.5	12.7
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°	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0	1374.0
2.5°	1359.5	1348.6	1345.6	1342.0	1335.3	1323.9	1315.4	1305.7	1301.5	1296.7	1297.3
5°	1325.7	1312.4	1299.7	1283.4	1262.9	1239.9	1224.2	1206.1	1196.4	1187.4	1189.8
7.5°	1296.7	1276.1	1250.2	1215.7	1178.9	1137.8	1104.6	1078.6	1061.1	1049.1	1055.1
10°	1278.6	1254.4	1209.1	1152.9	1090.7	1027.9	980.2	935.5	907.7	886.0	884.8
12.5°	1274.9	1243.5	1177.7	1096.2	1006.2	922.2	852.2	791.8	754.9	727.8	738.0
15°	1278.6	1238.7	1150.5	1043.6	930.1	816.5	729.6	660.1	616.0	591.3	589.5
17.5°	1282.8	1233.9	1119.7	986.8	850.4	720.5	619.6	546.0	500.7	475.9	476.5
20°	1286.4	1226.6	1083.5	924.6	769.4	631.1	526.6	456.6	416.1	398.0	401.0
22.5°	1292.4	1219.4	1044.8	858.2	686.7	544.8	453.0	396.2	372.0	360.0	360.6
25°	1303.9	1215.1	1005.0	785.7	605.2	475.9	402.2	364.2	349.1	341.8	341.2
27.5°	1327.5	1218.8	963.3	715.7	531.5	423.4	369.6	344.9	334.6	329.8	329.2
30°	1366.7	1233.3	927.1	644.4	468.1	382.3	347.3	332.2	326.1	321.9	321.3
32.5°	1426.5	1260.4	887.8	578.0	416.7	352.1	329.8	321.9	317.7	315.3	315.3
35°	1517.1	1310.0	849.1	520.0	376.9	328.5	315.9	312.8	309.2	308.0	309.2
37.5°	1647.6	1389.1	814.1	469.3	348.5	310.4	300.8	302.0	299.0	300.8	302.6
40°	1813.0	1494.8	784.5	427.6	327.3	297.1	287.5	291.7	289.9	291.7	294.7
42.5°	2022.6	1625.8	762.2	395.0	312.2	286.3	277.2	281.4	280.2	282.6	285.7
45°	2256.3	1798.6	751.9	372.0	301.4	278.4	268.8	271.8	270.6	272.4	275.4
47.5°	2480.4	1955.6	761.0	358.7	292.3	271.8	261.5	262.7	262.1	261.5	263.3
50°	2673.7	2080.6	786.9	354.5	286.3	265.1	255.5	256.1	254.3	250.6	251.8
52.5°	2831.3	2180.9	802.6	354.5	283.3	257.9	248.8	249.4	245.8	241.0	241.6
55°	2935.2	2221.3	790.0	353.9	282.0	251.8	242.2	242.8	239.2	233.1	233.7
57.5°	2964.8	2182.1	736.8	347.3	280.8	247.0	235.5	236.7	234.3	227.7	227.7
60°	2882.0	2038.3	639.6	332.2	277.8	244.0	230.7	232.5	231.3	224.7	224.7
62.5°	2665.2	1782.9	523.6	309.2	269.4	240.4	226.5	230.1	233.1	229.5	228.9
65°	2259.4	1428.3	425.8	283.9	258.5	234.3	220.4	229.5	236.1	241.0	241.0
67.5°	1695.3	1022.5	347.3	257.3	242.2	222.3	212.6	221.0	225.9	228.9	230.7
70°	1033.4	601.5	273.6	226.5	218.6	204.1	196.9	188.4	181.8	180.6	181.2
72.5°	505.5	344.2	222.3	192.7	186.6	173.3	157.0	153.4	150.4	148.6	148.0
75°	278.4	239.8	183.6	160.0	149.2	132.9	129.2	123.2	122.0	119.6	120.2
77.5°	196.9	189.0	151.6	129.8	113.5	105.1	106.9	102.7	102.7	100.9	100.3
80°	148.0	148.6	116.6	94.8	83.9	80.9	82.7	82.7	81.5	80.9	80.3
82.5°	93.6	105.7	78.5	61.0	59.8	60.4	59.8	59.2	60.4	58.6	58.0
85°	64.6	76.1	47.7	36.2	36.2	35.6	36.8	36.2	37.4	35.6	35.6
87.5°	14.5	33.8	17.5	10.9	11.5	10.9	11.5	12.1	13.3	13.9	13.9
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)