

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: P632282

Luminaire Tested: GWS-SA2C-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632282  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

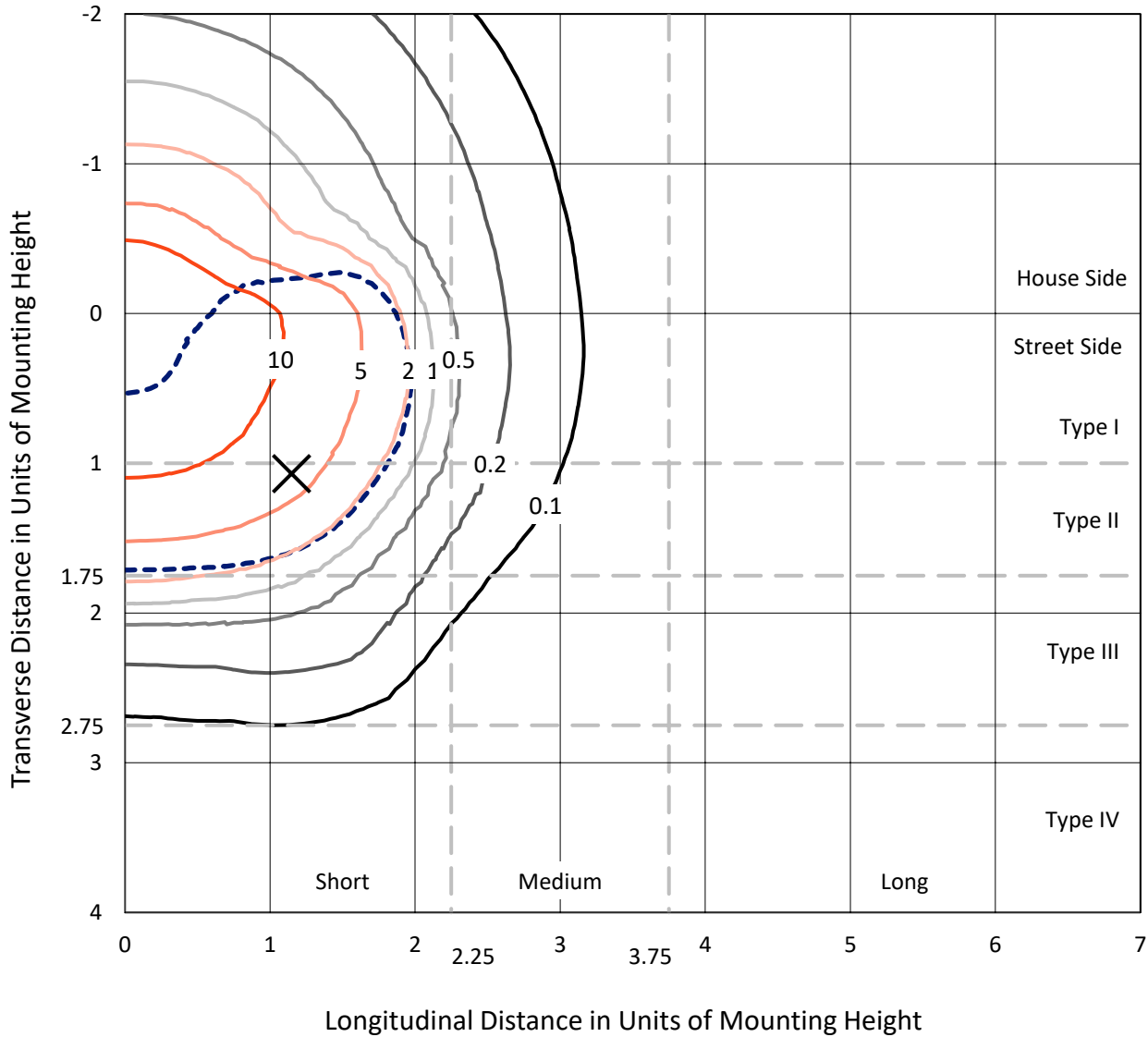
Lumens per Lamp: N/A  
Luminaire Lumens: 7791.2 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

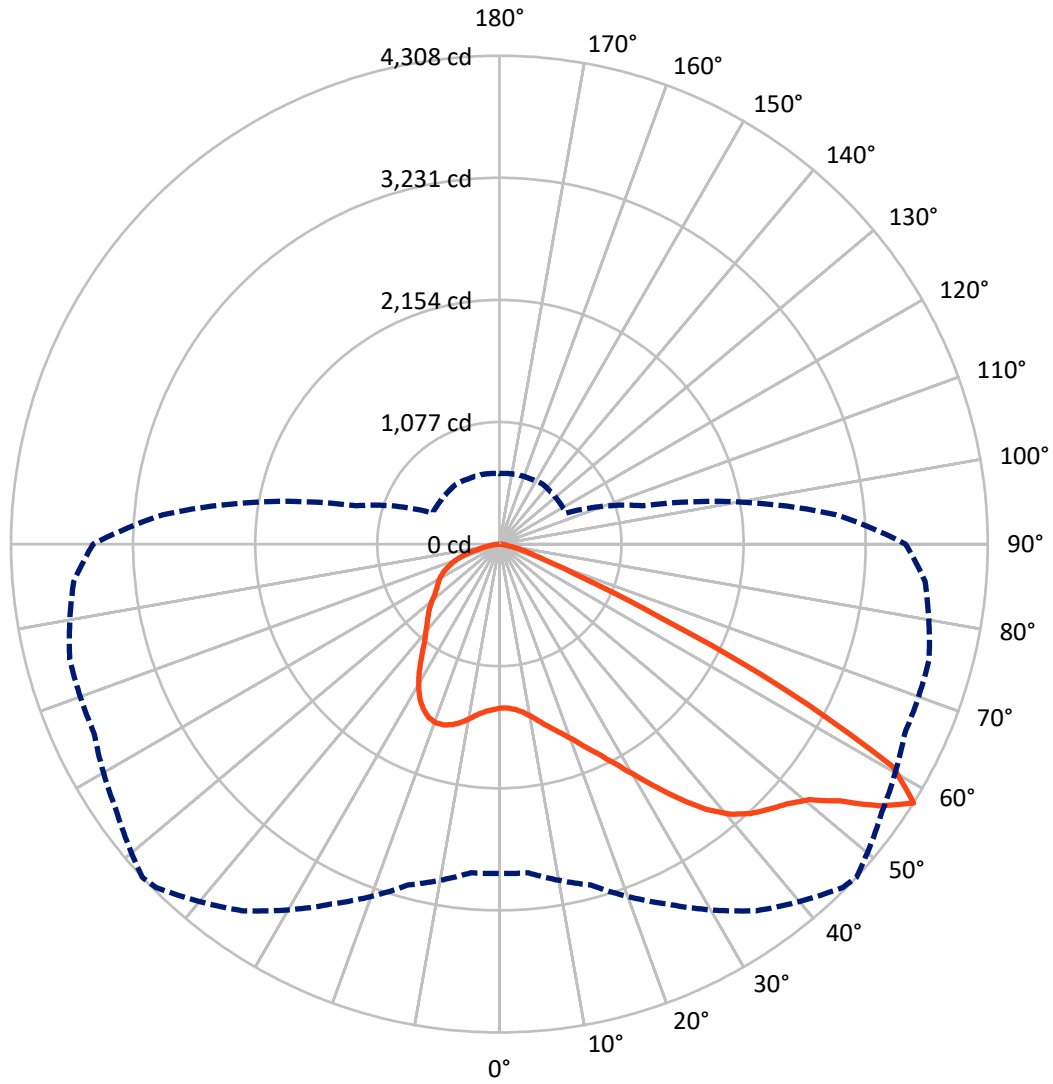
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P632282  
CATALOG NUMBER: GWS-SA2C-735-U-T3-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P632282

CATALOG NUMBER: GWS-SA2C-735-U-T3-W-GRSWH

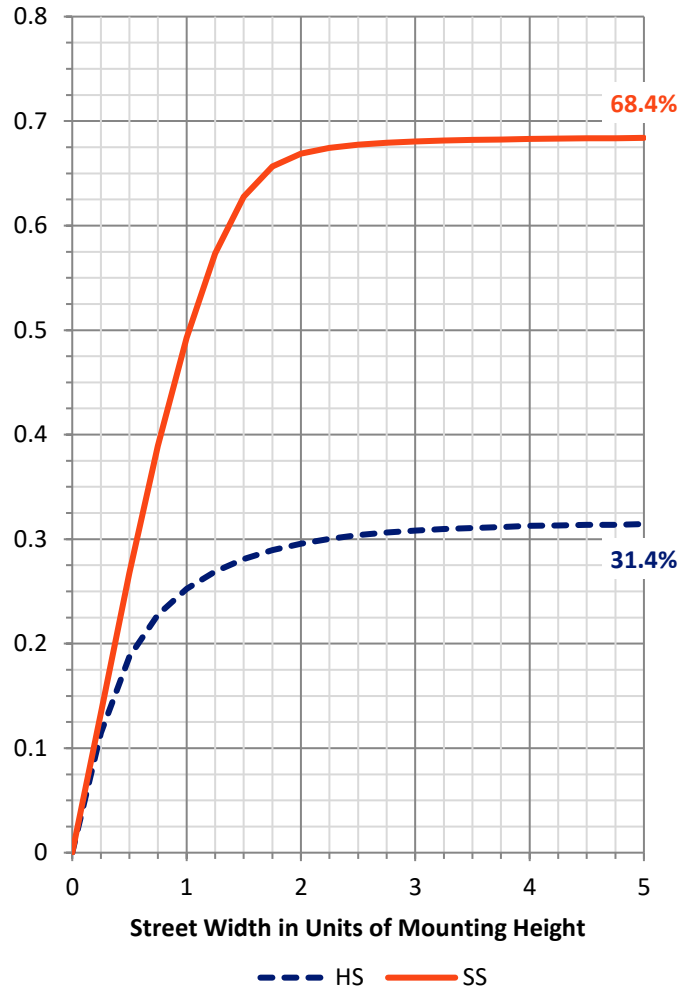
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2465.9	0.0	2465.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	5325.3	0.0	5325.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	7791.2	0.0	7791.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	1.8
10°-20°	468.7	6.0
20°-30°	844.0	10.8
30°-40°	1274.8	16.4
40°-50°	1716.6	22.0
50°-60°	2062.7	26.5
60°-70°	1004.6	12.9
70°-80°	247.5	3.2
80°-90°	29.7	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°	7791.2	100.0
0°-180°	7791.2	100.0

**Coefficient of Utilization**



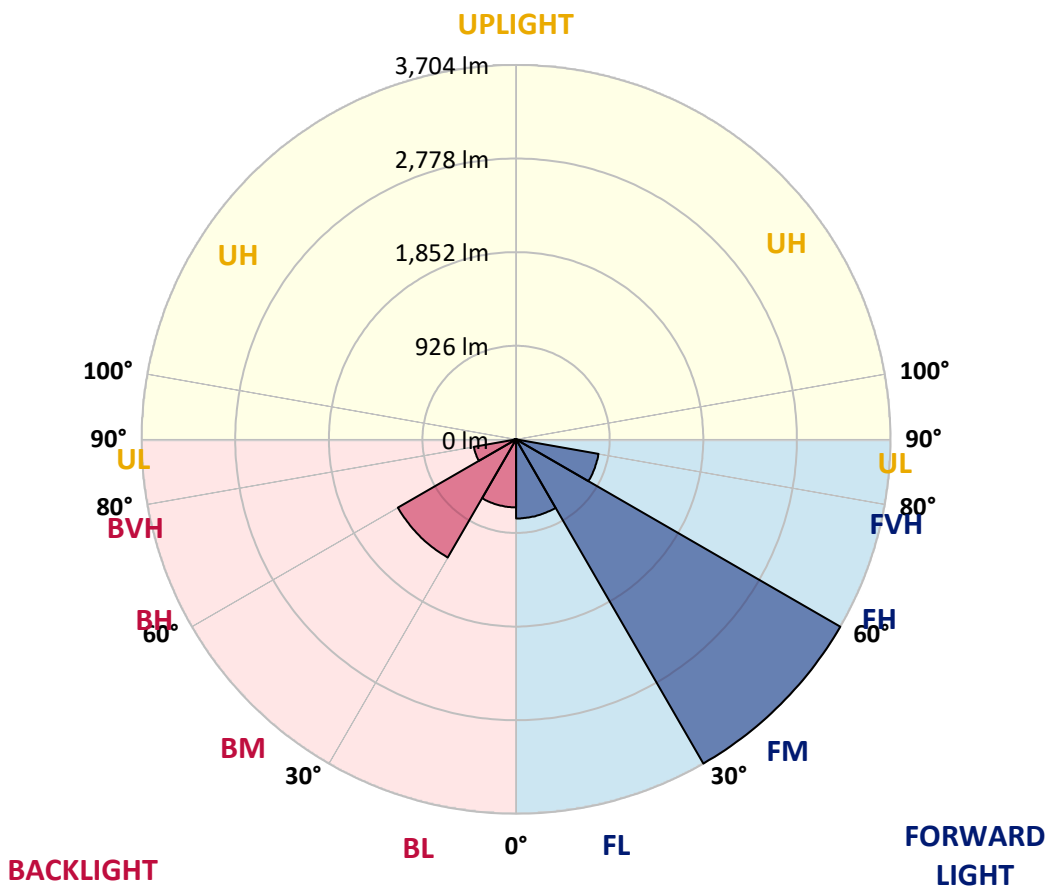
REPORT NUMBER: P632282

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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°)	782.6	10.0			
FM (30°-60°)	3703.6	47.5			
FH (60°-80°)	828.0	10.6			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	672.7	8.6	B2/1000		
BM (30°-60°)	1350.6	17.3	B2/2500		
BH (60°-80°)	424.1	5.4	B1/500		G1/500
BVH (80°-90°)	18.6	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°	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9
2.5°	1442.3	1441.6	1441.6	1445.5	1445.5	1446.9	1448.8	1450.8	1451.4	1448.2	1441.0
5°	1458.0	1458.0	1458.0	1461.2	1461.2	1462.6	1465.2	1465.8	1465.2	1459.9	1452.7
7.5°	1482.8	1482.8	1483.5	1487.4	1490.7	1492.7	1497.2	1496.6	1494.6	1486.1	1477.0
10°	1523.4	1525.4	1527.3	1531.9	1538.5	1543.0	1546.3	1546.3	1543.7	1530.6	1518.8
12.5°	1581.0	1583.6	1585.6	1589.5	1594.7	1602.6	1609.8	1609.8	1606.5	1590.2	1572.5
15°	1648.4	1651.0	1650.4	1651.7	1661.5	1672.6	1678.5	1682.4	1683.7	1660.8	1633.4
17.5°	1725.6	1728.2	1725.6	1721.7	1723.0	1740.7	1751.1	1765.5	1774.0	1743.3	1699.4
20°	1795.6	1793.0	1793.0	1795.6	1799.6	1821.2	1836.9	1860.4	1870.9	1833.6	1765.5
22.5°	1869.6	1875.5	1872.9	1872.9	1888.6	1924.6	1943.5	1974.3	1985.4	1937.0	1845.4
25°	1965.1	1970.4	1969.1	1970.4	1988.7	2039.7	2058.7	2115.6	2126.8	2057.4	1933.7
27.5°	2069.8	2078.3	2082.3	2081.0	2110.4	2177.1	2200.7	2279.9	2300.2	2192.2	2027.9
30°	2205.9	2215.1	2218.4	2217.1	2251.8	2342.7	2369.5	2459.8	2488.6	2351.9	2147.7
32.5°	2363.7	2372.8	2382.6	2386.6	2431.1	2524.0	2562.6	2656.2	2697.4	2536.4	2292.3
35°	2520.0	2527.9	2546.9	2577.6	2638.5	2733.4	2767.4	2859.7	2899.6	2728.1	2467.0
37.5°	2692.8	2698.0	2714.4	2756.9	2844.6	2934.9	2969.0	3057.3	3061.9	2913.3	2664.7
40°	2881.9	2881.9	2878.7	2920.5	3012.1	3103.1	3132.6	3183.6	3156.8	3056.0	2857.1
42.5°	3042.3	3039.6	3042.3	3081.5	3149.6	3223.5	3249.0	3239.2	3205.2	3165.3	3031.1
45°	3186.9	3188.8	3212.4	3242.5	3277.8	3321.7	3336.7	3281.1	3250.3	3253.0	3170.5
47.5°	3285.0	3287.0	3342.0	3392.3	3413.9	3427.7	3421.1	3343.9	3328.2	3357.7	3277.8
50°	3298.1	3308.6	3403.5	3506.9	3560.5	3562.5	3544.2	3449.9	3445.4	3478.7	3335.4
52.5°	3300.7	3311.2	3429.6	3616.1	3755.5	3785.0	3764.0	3665.9	3618.1	3584.7	3406.1
55°	3290.9	3302.7	3433.6	3689.4	3956.4	4074.2	4076.2	3937.5	3785.0	3762.7	3607.6
57.5°	2905.5	2910.1	3112.9	3502.9	3948.6	4282.3	4307.8	4119.4	3945.3	3924.4	3769.3
60°	2024.0	2042.3	2262.9	2777.9	3317.1	3905.4	3987.8	3932.9	3816.4	3663.9	3234.0
62.5°	1013.6	1029.4	1250.5	1737.4	2287.7	2752.4	2840.7	2898.9	2926.4	2762.8	2202.0
65°	436.5	448.3	585.7	907.6	1295.0	1519.5	1550.2	1620.3	1791.7	1598.7	1186.4
67.5°	291.9	299.7	369.7	553.6	763.0	777.4	772.8	787.9	825.2	681.2	535.9
70°	223.8	230.3	277.5	405.7	548.4	469.2	444.3	403.1	437.8	446.3	434.5
72.5°	162.3	167.5	202.9	276.8	343.6	299.7	295.8	316.7	363.8	376.9	369.7
75°	104.7	107.3	128.9	151.8	177.3	192.4	200.2	238.2	286.0	295.8	287.3
77.5°	70.0	72.0	84.4	97.5	100.8	101.4	104.0	121.1	153.8	172.1	170.1
80°	36.6	36.6	41.2	41.2	47.1	56.3	58.9	70.0	85.1	94.2	94.9
82.5°	14.4	15.1	17.7	19.6	23.6	28.8	30.8	36.6	44.5	51.0	56.9
85°	5.9	6.5	7.2	8.5	10.5	13.1	13.7	15.7	20.9	26.2	29.4
87.5°	0.0	0.0	0.7	0.7	1.3	2.0	2.0	2.6	3.3	5.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632282

CATALOG NUMBER: GWS-SA2C-735-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9	1444.9
2.5°	1449.5	1441.0	1449.5	1452.1	1459.3	1461.9	1457.3	1456.7	1456.7	1450.1	1448.2
5°	1459.3	1451.4	1459.9	1463.9	1474.3	1480.9	1482.2	1487.4	1490.7	1488.1	1487.4
7.5°	1483.5	1473.7	1482.8	1488.7	1502.5	1512.9	1517.5	1529.3	1537.8	1536.5	1535.8
10°	1526.0	1512.9	1523.4	1533.2	1548.3	1560.7	1561.4	1567.9	1576.4	1573.8	1572.5
12.5°	1575.1	1562.7	1574.5	1584.3	1601.9	1607.2	1598.7	1596.1	1597.4	1594.1	1591.5
15°	1635.3	1617.6	1628.1	1639.2	1649.1	1643.2	1624.8	1617.6	1617.0	1612.4	1609.8
17.5°	1695.5	1673.3	1681.1	1687.0	1682.4	1664.1	1641.2	1628.8	1622.9	1613.7	1611.1
20°	1755.1	1726.9	1725.6	1721.0	1700.1	1666.7	1636.0	1611.1	1596.1	1583.6	1579.0
22.5°	1823.1	1783.9	1764.2	1743.3	1697.5	1643.2	1596.7	1561.4	1537.2	1521.5	1516.2
25°	1896.4	1840.8	1800.2	1758.3	1671.3	1592.8	1528.0	1479.6	1450.8	1433.8	1427.9
27.5°	1969.1	1892.5	1831.6	1760.3	1619.0	1520.1	1433.1	1367.7	1338.9	1325.1	1320.6
30°	2067.2	1961.2	1868.9	1734.8	1550.2	1419.4	1310.7	1244.6	1225.7	1215.9	1211.9
32.5°	2180.4	2048.2	1918.7	1681.1	1462.6	1301.6	1187.1	1141.3	1128.2	1109.2	1108.5
35°	2329.6	2172.6	1965.8	1601.9	1352.0	1175.3	1092.2	1059.5	1035.9	1005.8	1003.2
37.5°	2503.7	2327.7	1991.3	1501.2	1223.1	1071.2	1021.5	984.9	946.9	907.0	901.7
40°	2683.6	2508.9	1993.3	1382.1	1096.8	1002.5	960.6	912.9	865.8	821.3	815.4
42.5°	2872.8	2677.8	1958.6	1244.6	993.4	943.0	900.4	840.2	787.2	757.1	753.9
45°	3041.6	2813.9	1880.1	1100.0	916.8	893.2	838.9	774.1	746.0	724.4	719.8
47.5°	3174.4	2904.2	1774.0	970.5	854.6	842.2	771.5	738.1	716.6	696.9	692.3
50°	3239.9	2924.5	1636.0	865.1	797.0	782.0	733.6	708.0	693.7	677.9	674.0
52.5°	3321.0	2947.4	1516.9	776.8	740.8	720.5	702.2	681.9	671.4	661.6	658.3
55°	3507.5	3033.7	1454.1	706.1	687.1	677.9	675.3	658.3	655.0	648.5	642.6
57.5°	3583.4	2978.1	1305.5	648.5	644.6	645.9	652.4	636.7	633.4	625.6	621.7
60°	2881.9	2251.1	884.1	598.8	609.2	617.7	624.3	608.6	604.0	602.7	597.5
62.5°	1846.7	1384.7	617.1	552.3	568.0	578.5	582.4	567.4	564.1	574.6	575.2
65°	961.3	754.5	500.6	502.6	515.7	531.4	539.2	534.0	532.7	543.8	544.5
67.5°	490.8	461.3	436.5	443.7	454.1	474.4	492.8	515.7	523.5	524.8	525.5
70°	418.2	405.1	392.6	397.2	408.3	419.5	437.1	448.3	435.2	431.9	430.6
72.5°	356.0	346.2	340.3	345.5	351.4	349.4	344.2	349.4	351.4	352.1	352.7
75°	276.8	269.6	265.0	265.7	265.7	258.5	248.7	242.8	236.2	231.0	231.0
77.5°	169.5	170.8	175.4	174.7	174.1	171.4	161.6	156.4	140.7	136.1	136.1
80°	96.8	98.8	103.4	104.7	104.7	101.4	91.6	85.7	78.5	75.3	74.6
82.5°	58.9	61.5	64.1	65.4	66.1	62.2	53.7	49.1	45.2	41.9	41.9
85°	30.8	32.1	34.7	35.3	33.4	29.4	24.9	22.9	19.0	18.3	18.3
87.5°	8.5	9.2	10.5	8.5	7.9	5.9	3.3	2.6	1.3	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

(END OF REPORT)