

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: P632307

Luminaire Tested: GWS-SA2C-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-740-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

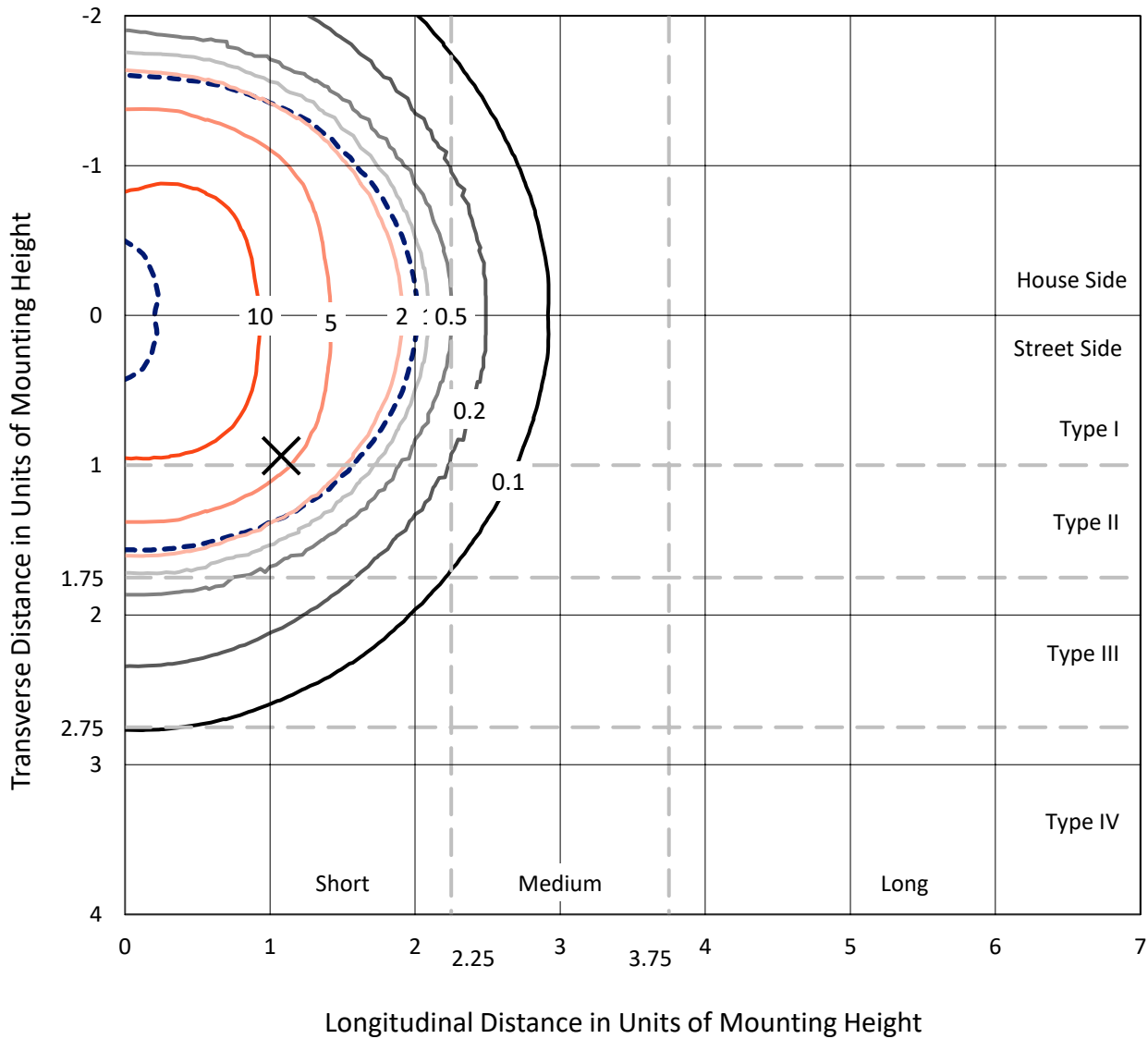
Lumens per Lamp: N/A  
Luminaire Lumens: 8158.9 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

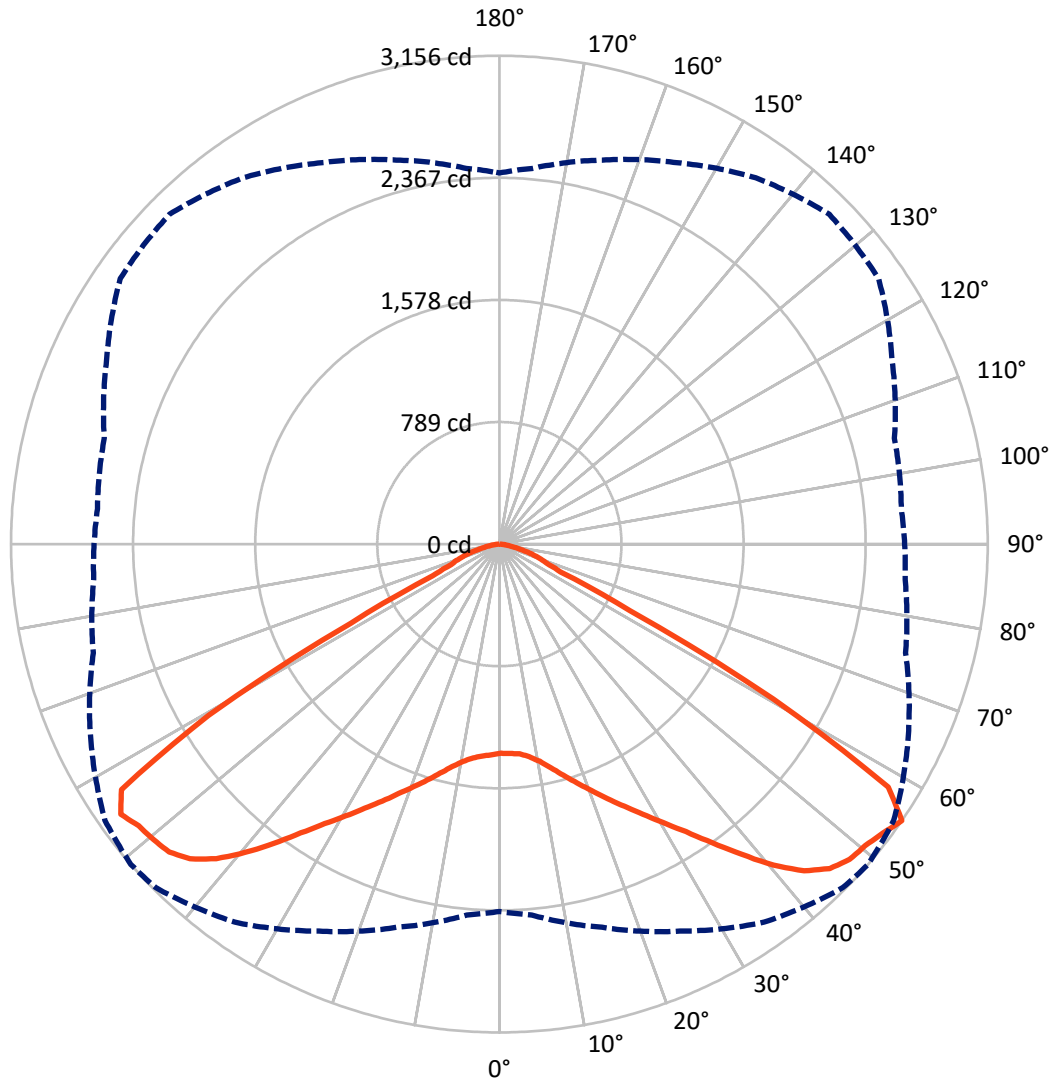
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type V - Short - N/A

REPORT NUMBER: P632307  
CATALOG NUMBER: GWS-SA2C-740-U-RW-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GWS-SA2C-740-U-RW-W-GRSWH

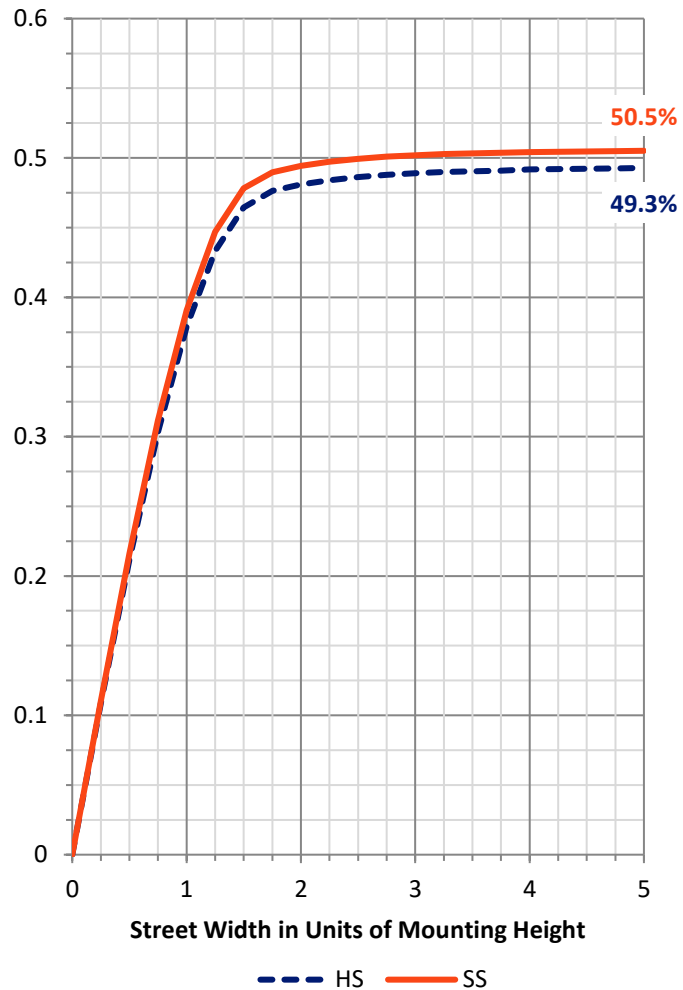
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4039.4	0.0	4039.4
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	4119.5	0.0	4119.5
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	8158.9	0.0	8158.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	1.6
10°-20°	434.9	5.3
20°-30°	828.3	10.2
30°-40°	1404.2	17.2
40°-50°	2113.2	25.9
50°-60°	2313.1	28.4
60°-70°	731.4	9.0
70°-80°	175.5	2.2
80°-90°	26.3	0.3
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°	8158.9	100.0
0°-180°	8158.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632307

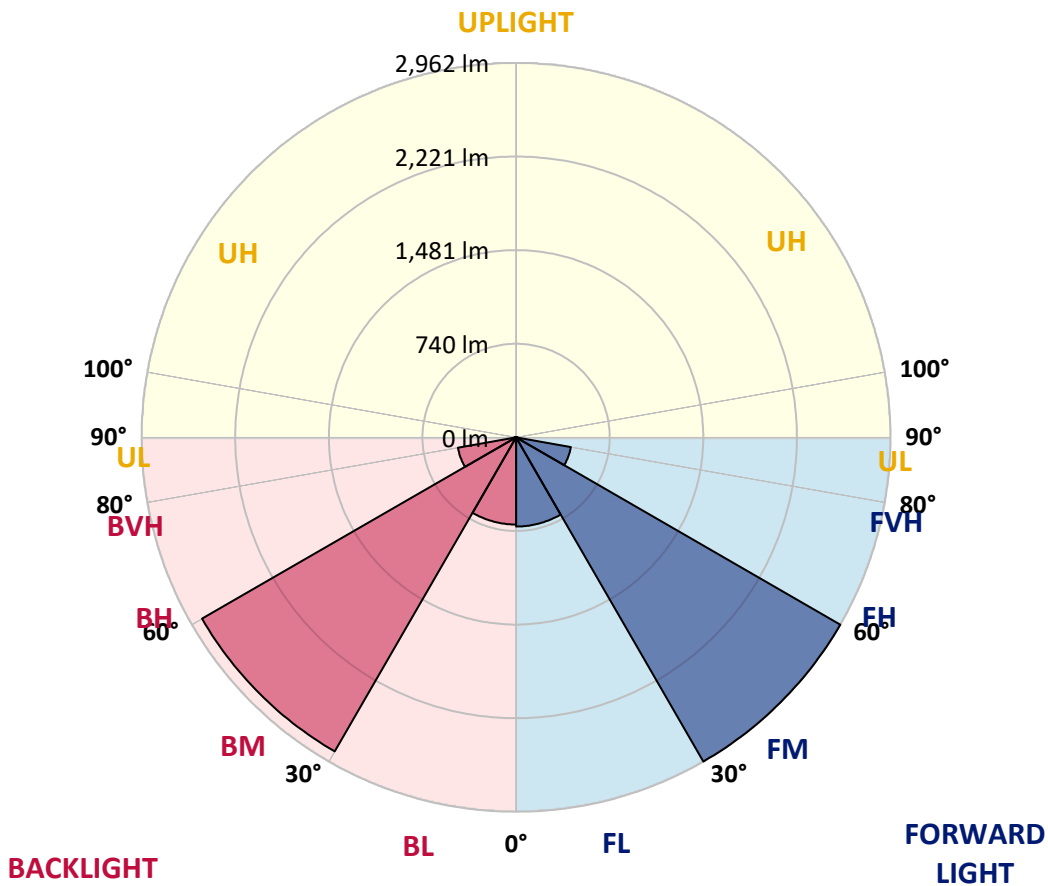
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	705.4	8.6			
FM (30°-60°)	2961.9	36.3			
FH (60°-80°)	440.0	5.4			G0/660
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	689.7	8.5	B2/1000		
BM (30°-60°)	2868.6	35.2	B3/5000		
BH (60°-80°)	467.0	5.7	B1/500		G0/660
BVH (80°-90°)	14.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





REPORT NUMBER: P632307

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1331.7	1333.0	1335.6	1340.3	1344.9	1351.6	1354.2	1357.5	1356.9	1360.9	1360.9
5°	1325.0	1327.0	1331.0	1337.6	1345.6	1358.2	1361.5	1369.5	1377.4	1387.4	1390.7
7.5°	1333.0	1335.6	1340.3	1350.9	1362.9	1379.4	1386.1	1399.3	1414.6	1432.5	1439.8
10°	1348.3	1351.6	1359.5	1376.8	1396.0	1421.2	1427.2	1443.8	1468.3	1492.9	1507.5
12.5°	1365.5	1370.8	1385.4	1412.6	1441.1	1474.3	1483.6	1504.2	1530.7	1562.6	1582.5
15°	1385.4	1390.1	1412.6	1451.1	1495.6	1539.3	1550.0	1569.9	1599.7	1630.9	1658.8
17.5°	1427.2	1435.2	1461.7	1506.2	1557.9	1609.7	1621.6	1644.2	1668.1	1692.6	1719.2
20°	1484.3	1490.9	1524.7	1579.8	1640.9	1688.0	1699.9	1719.8	1731.1	1743.7	1766.3
22.5°	1541.3	1550.6	1589.1	1654.1	1725.8	1776.9	1786.2	1804.7	1796.8	1792.8	1807.4
25°	1612.3	1624.9	1662.8	1733.8	1806.7	1869.8	1877.1	1893.0	1879.7	1859.2	1858.5
27.5°	1700.6	1711.9	1751.0	1824.0	1896.3	1962.0	1975.9	1997.2	1968.0	1942.8	1924.8
30°	1805.4	1812.7	1855.8	1933.5	2007.8	2070.2	2088.1	2109.3	2087.4	2045.6	2027.7
32.5°	1927.5	1937.5	1987.2	2068.8	2135.2	2197.5	2215.5	2242.0	2218.1	2171.0	2148.4
35°	2074.1	2084.1	2136.5	2225.4	2293.1	2357.5	2370.1	2392.0	2362.1	2307.7	2289.8
37.5°	2233.4	2246.0	2312.3	2396.6	2467.6	2542.6	2543.2	2549.9	2507.4	2439.7	2419.8
40°	2412.5	2429.1	2495.5	2583.0	2668.6	2729.7	2729.0	2710.4	2638.8	2533.9	2503.4
42.5°	2589.7	2603.0	2670.0	2760.2	2845.8	2903.5	2886.3	2841.2	2737.6	2595.0	2554.5
45°	2717.7	2727.7	2798.0	2899.5	2986.5	3022.3	2991.1	2936.7	2796.7	2633.5	2573.8
47.5°	2778.1	2791.4	2862.4	2963.2	3061.4	3082.0	3044.9	2993.8	2831.2	2669.3	2589.0
50°	2745.6	2762.9	2843.1	2936.7	3047.5	3090.0	3063.4	3012.3	2867.7	2704.5	2616.2
52.5°	2661.3	2677.9	2779.4	2892.9	3018.3	3102.6	3101.9	3060.1	2909.5	2714.4	2617.5
55°	2373.4	2405.9	2563.8	2759.5	2982.5	3139.7	3155.7	3111.2	2916.1	2717.1	2631.5
57.5°	1544.7	1601.7	1751.7	2006.5	2453.7	2855.7	2963.2	2973.9	2868.4	2705.8	2634.1
60°	644.9	690.7	809.5	978.7	1348.3	1826.6	2035.0	2244.0	2496.1	2587.7	2609.6
62.5°	400.8	404.7	416.7	455.2	578.6	812.1	946.2	1141.9	1516.8	1835.9	1983.2
65°	361.6	363.6	366.3	363.6	369.6	398.1	433.9	502.3	654.9	813.5	1001.9
67.5°	318.5	321.1	323.1	321.1	323.1	324.5	328.4	334.4	362.3	384.8	402.1
70°	257.4	261.4	264.7	263.4	271.4	271.4	275.4	280.0	293.9	310.5	322.5
72.5°	196.4	193.1	197.1	198.4	205.7	209.7	215.6	220.9	236.9	246.8	262.1
75°	127.4	124.1	130.0	133.4	143.3	148.6	153.9	159.2	170.5	177.2	191.8
77.5°	69.0	68.3	74.3	79.0	89.6	96.2	100.2	104.2	113.5	115.5	124.7
80°	39.8	39.8	43.8	47.1	53.7	61.0	65.0	68.3	75.0	77.0	80.9
82.5°	21.9	21.9	23.9	25.9	31.2	35.2	38.5	41.1	47.1	49.1	51.1
85°	10.6	10.0	11.3	12.6	14.6	16.6	18.6	19.9	24.5	25.9	28.5
87.5°	1.3	1.3	1.3	2.0	2.7	4.0	4.6	4.6	7.3	8.6	10.0
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: P632307

CATALOG NUMBER: GWS-SA2C-740-U-RW-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6	1351.6
2.5°	1364.8	1356.2	1361.5	1363.5	1363.5	1361.5	1352.9	1350.2	1346.3	1340.3	1340.3
5°	1395.4	1388.7	1390.1	1386.7	1378.8	1368.8	1352.9	1344.9	1338.3	1331.0	1330.3
7.5°	1447.8	1439.2	1437.8	1425.2	1404.0	1382.8	1358.9	1344.3	1334.3	1325.0	1324.4
10°	1516.1	1508.2	1498.2	1473.0	1441.8	1410.6	1378.1	1358.2	1343.6	1330.3	1329.7
12.5°	1592.4	1583.1	1564.6	1527.4	1488.3	1457.7	1420.6	1390.1	1368.2	1350.2	1346.9
15°	1675.4	1662.1	1630.2	1586.5	1548.0	1515.5	1475.6	1431.9	1398.7	1370.1	1366.8
17.5°	1739.1	1721.8	1687.3	1646.2	1614.3	1581.8	1530.1	1475.0	1427.2	1391.4	1386.1
20°	1782.9	1768.9	1729.8	1699.3	1680.7	1652.1	1591.8	1529.4	1475.6	1430.5	1427.9
22.5°	1823.3	1806.7	1768.3	1750.3	1750.3	1731.1	1673.4	1599.7	1536.7	1484.3	1477.6
25°	1869.1	1851.2	1822.0	1820.0	1829.3	1820.7	1751.0	1672.0	1598.4	1539.3	1528.7
27.5°	1932.8	1912.9	1895.7	1907.6	1920.9	1911.6	1833.9	1742.4	1664.7	1605.0	1595.7
30°	2034.3	2009.8	1993.8	2008.4	2034.3	2007.1	1922.9	1826.0	1747.7	1682.0	1677.4
32.5°	2152.4	2124.6	2108.0	2131.2	2154.4	2112.0	2028.4	1935.5	1853.2	1784.2	1776.2
35°	2294.4	2259.3	2234.7	2265.9	2289.8	2248.0	2165.0	2076.8	1985.2	1913.6	1902.9
37.5°	2420.5	2378.0	2361.4	2405.2	2437.1	2409.9	2319.6	2236.7	2136.5	2058.2	2053.6
40°	2512.1	2470.3	2458.3	2530.6	2586.4	2579.7	2498.8	2403.9	2309.7	2219.4	2210.8
42.5°	2551.9	2522.7	2525.3	2622.9	2709.1	2751.6	2679.3	2577.7	2486.8	2393.3	2387.3
45°	2560.5	2542.6	2563.8	2685.9	2799.4	2886.3	2824.6	2739.6	2636.8	2546.6	2543.9
47.5°	2569.8	2559.8	2592.3	2721.7	2856.4	2957.3	2922.8	2835.2	2731.0	2642.8	2636.1
50°	2591.7	2587.7	2624.2	2746.9	2883.6	2976.5	2937.4	2850.4	2743.6	2656.7	2640.8
52.5°	2598.3	2591.7	2644.1	2786.1	2928.7	2975.8	2891.6	2778.1	2670.6	2573.8	2557.2
55°	2618.9	2606.9	2642.8	2800.7	2991.1	3014.3	2888.9	2719.1	2569.1	2437.1	2397.9
57.5°	2624.2	2610.9	2634.1	2776.8	2923.4	2902.9	2539.3	2194.2	1911.6	1764.9	1781.5
60°	2595.7	2599.6	2559.8	2543.9	2344.8	2070.2	1554.6	1242.8	976.0	863.2	887.8
62.5°	1975.9	1992.5	1856.5	1614.3	1241.4	984.0	650.9	505.6	428.0	408.1	411.4
65°	997.3	1019.8	878.5	726.5	540.1	436.6	377.5	365.6	361.6	357.0	357.0
67.5°	394.8	401.4	396.1	370.9	345.0	335.7	333.1	331.8	327.1	324.5	325.1
70°	317.2	322.5	314.5	298.6	288.0	287.3	286.0	283.3	280.0	280.0	282.0
72.5°	258.8	264.1	252.8	242.8	234.9	228.9	225.6	223.6	219.0	219.0	220.9
75°	190.4	193.7	184.5	183.1	174.5	168.5	163.2	160.6	154.6	151.9	153.9
77.5°	126.7	126.1	121.4	121.4	118.1	110.8	104.8	98.9	90.9	85.6	86.9
80°	82.3	82.3	80.3	80.3	77.0	71.0	63.7	57.7	53.1	49.1	49.1
82.5°	52.4	51.8	51.1	50.4	49.1	43.1	37.8	33.8	30.5	27.9	28.5
85°	29.2	29.2	27.9	27.9	25.2	21.9	19.2	16.6	14.6	13.9	13.9
87.5°	10.0	10.0	9.3	9.3	8.0	6.0	4.6	4.0	3.3	2.7	3.3
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)