

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: P634034

Luminaire Tested: GWS-SA2F-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-830-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

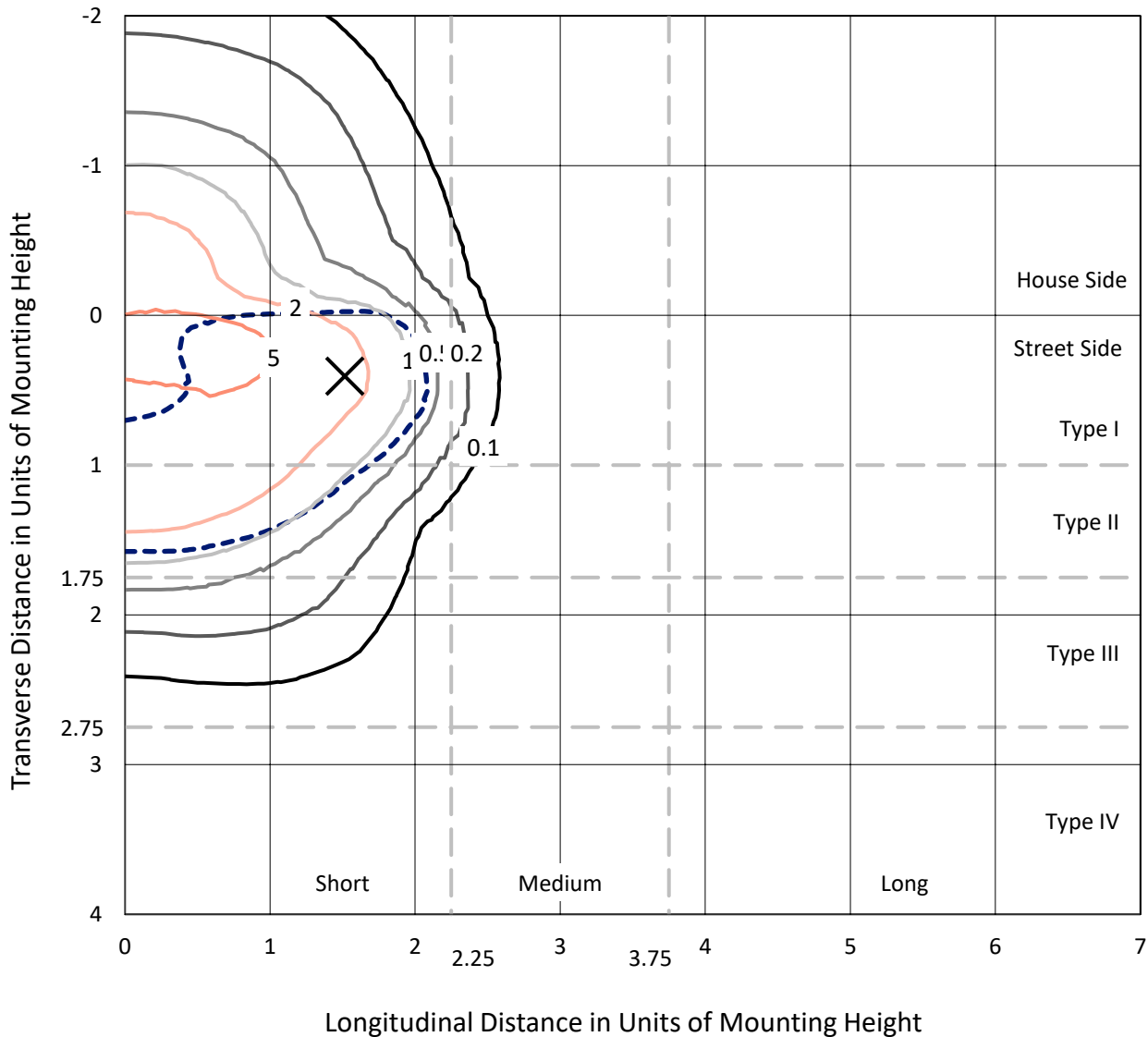
Lumens per Lamp: N/A  
Luminaire Lumens: 10744.2 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

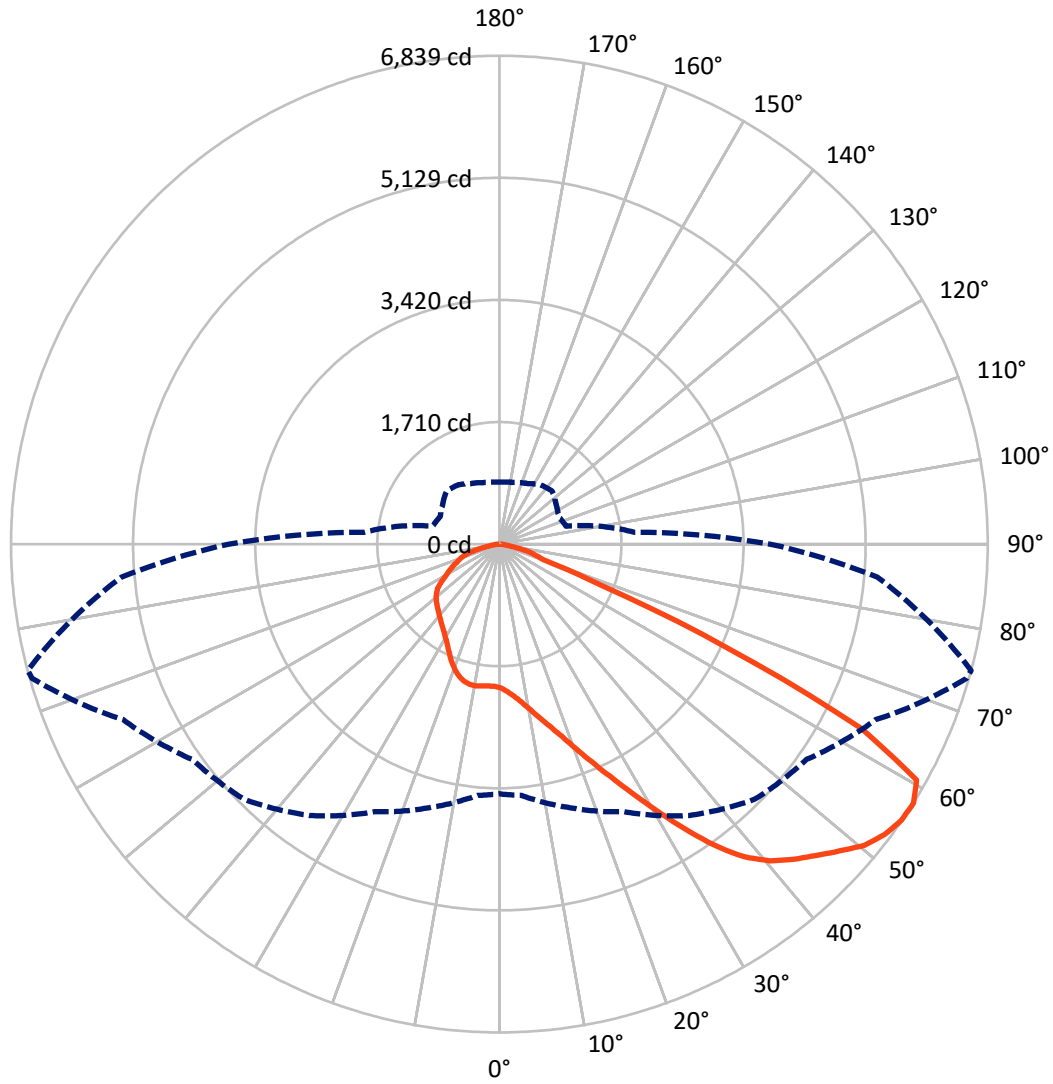
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P634034  
CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

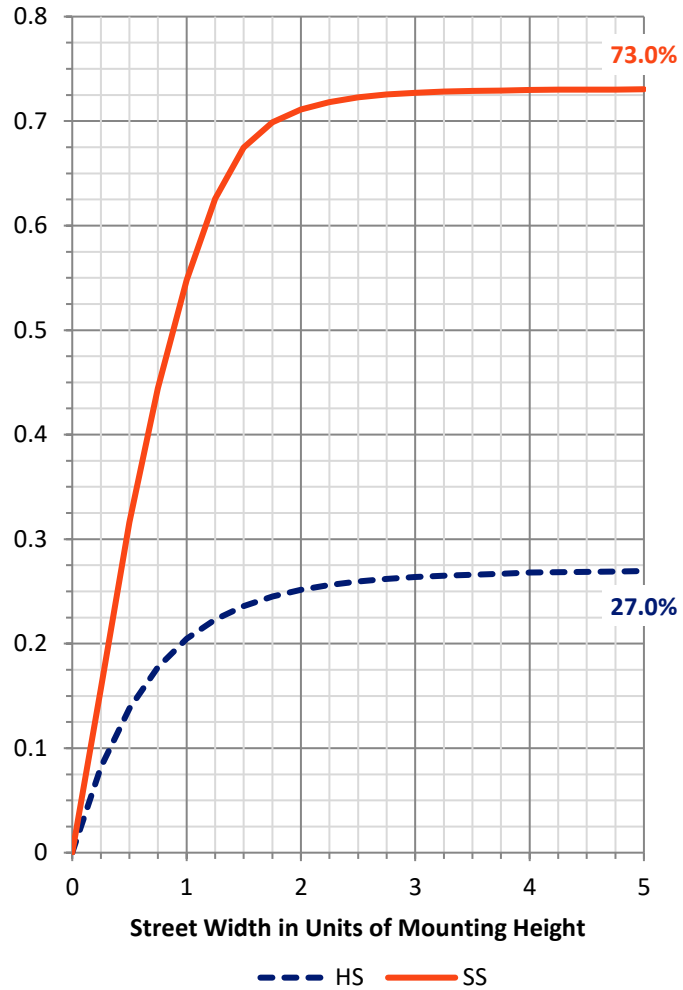
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2906.5	0.0	2906.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	7837.7	0.0	7837.7
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	10744.2	0.0	10744.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.3	1.9
10°-20°	641.1	6.0
20°-30°	1136.9	10.6
30°-40°	1740.4	16.2
40°-50°	2423.4	22.6
50°-60°	2776.7	25.8
60°-70°	1426.7	13.3
70°-80°	359.2	3.3
80°-90°	38.4	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°	10744.2	100.0
0°-180°	10744.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P634034

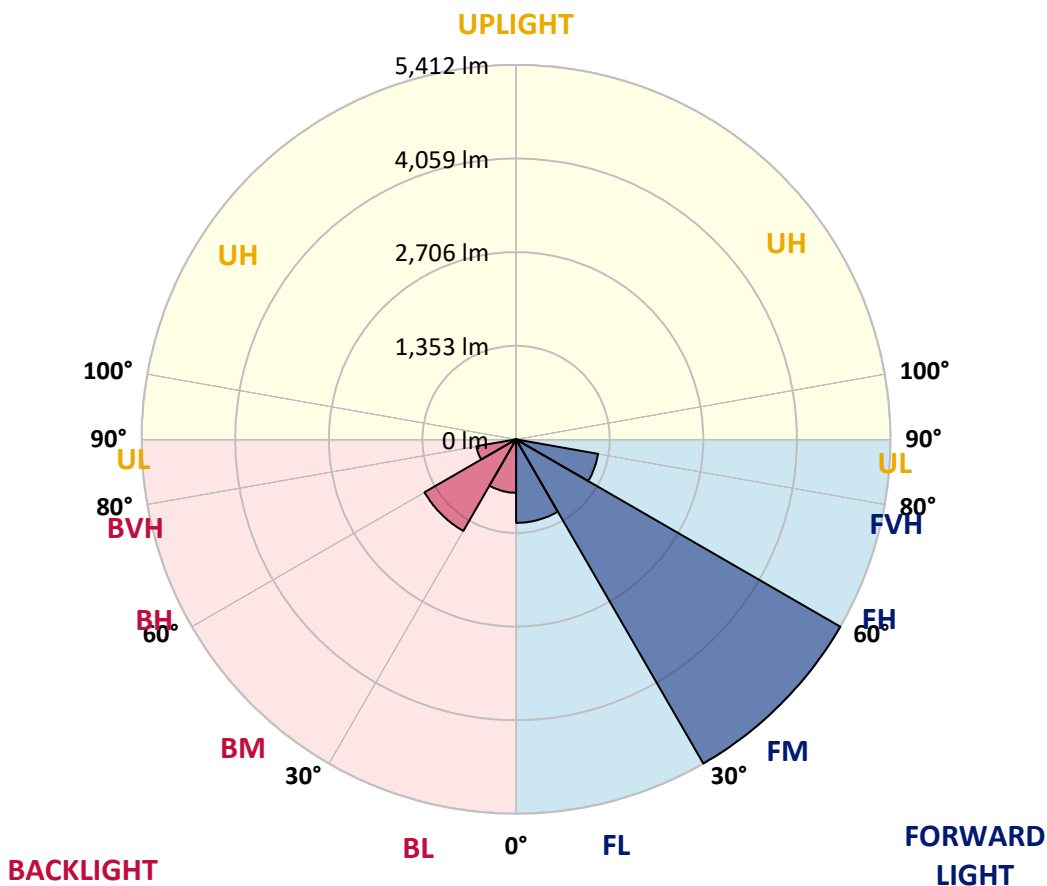
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.2	11.2			
FM (30°-60°)	5412.0	50.4			
FH (60°-80°)	1204.3	11.2			G1/1800
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	772.2	7.2	B2/1000		
BM (30°-60°)	1528.6	14.2	B2/2500		
BH (60°-80°)	581.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	24.2	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-G2**

Type II Short





REPORT NUMBER: P634034

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2161.8	2167.3	2161.8	2171.0	2152.6	2144.2	2123.9	2093.4	2069.4	2065.7	2038.9
5°	2329.9	2341.9	2334.6	2330.9	2305.9	2287.4	2256.9	2196.0	2146.1	2138.7	2086.0
7.5°	2438.0	2446.3	2446.3	2449.1	2439.9	2418.6	2386.3	2314.2	2244.0	2232.9	2153.5
10°	2474.1	2480.5	2492.5	2515.6	2534.1	2540.6	2519.3	2450.0	2364.1	2353.0	2242.2
12.5°	2482.4	2489.8	2508.2	2550.7	2601.5	2647.7	2651.4	2600.6	2504.5	2492.5	2344.7
15°	2498.1	2505.5	2530.4	2583.1	2657.9	2746.6	2801.1	2766.0	2659.7	2646.8	2461.1
17.5°	2496.2	2504.5	2541.5	2611.7	2712.4	2840.8	2946.1	2960.9	2851.0	2828.8	2593.2
20°	2491.6	2499.0	2538.7	2624.6	2749.4	2925.8	3116.1	3192.8	3074.6	3054.2	2747.5
22.5°	2528.6	2536.9	2567.4	2638.5	2768.8	2991.4	3273.2	3457.9	3339.7	3311.1	2924.9
25°	2611.7	2623.7	2642.2	2691.2	2803.9	3049.6	3433.9	3758.2	3637.2	3603.0	3118.0
27.5°	2740.1	2754.9	2780.8	2803.9	2882.4	3123.5	3593.8	4094.5	3973.5	3937.4	3322.1
30°	2897.2	2916.6	2949.8	2965.5	3019.1	3232.5	3767.4	4440.9	4370.7	4320.8	3552.2
32.5°	3114.3	3141.1	3172.5	3177.1	3209.4	3397.9	3939.3	4784.6	4783.7	4748.6	3813.6
35°	3397.0	3425.6	3432.1	3438.5	3454.3	3625.2	4147.1	5097.8	5218.8	5178.1	4098.2
37.5°	3705.5	3747.1	3757.3	3728.6	3750.8	3898.6	4380.9	5349.1	5597.6	5554.1	4373.5
40°	4035.3	4052.0	4079.7	4034.4	4062.1	4211.8	4610.0	5509.8	5880.3	5834.1	4590.6
42.5°	4271.9	4302.3	4343.9	4327.3	4343.0	4479.7	4770.7	5587.4	6081.7	6035.5	4746.7
45°	4528.7	4537.9	4564.7	4561.0	4570.3	4697.7	4886.2	5621.6	6261.8	6220.2	4879.7
47.5°	4752.2	4766.1	4783.7	4763.3	4743.0	4826.2	4980.4	5651.1	6469.7	6419.8	5019.2
50°	4967.5	4979.5	5000.8	4941.6	4865.9	4887.1	5026.6	5691.8	6664.6	6629.5	5129.2
52.5°	5007.2	5020.2	5119.9	5131.9	5034.9	4960.1	5107.9	5781.4	6779.2	6757.0	5168.9
55°	4507.4	4530.5	4729.2	4957.3	5196.6	5172.6	5238.2	5828.5	6824.4	6830.0	5240.0
57.5°	3498.6	3531.9	3821.9	4135.1	4638.6	5055.3	5254.8	5816.5	6808.7	6839.2	5313.0
60°	2294.8	2314.2	2657.9	3009.0	3530.9	4107.4	4703.3	5600.3	6669.2	6712.6	5294.5
62.5°	1385.8	1407.9	1684.2	1950.2	2257.9	2643.1	3190.0	4501.0	5590.2	5687.2	4240.4
65°	967.3	996.8	1238.9	1457.8	1564.1	1484.6	1615.8	2513.8	3482.9	3523.5	2591.4
67.5°	701.2	721.5	920.1	1180.7	1298.0	1048.6	799.1	1113.2	1517.0	1531.7	1068.9
70°	459.2	482.2	662.4	898.9	1059.6	849.9	597.7	602.3	638.4	645.8	620.8
72.5°	252.2	266.1	409.3	596.8	626.4	508.1	466.5	500.7	525.7	525.7	532.1
75°	130.3	142.3	167.2	196.8	237.4	278.1	336.3	387.1	413.9	415.7	413.0
77.5°	66.5	71.1	89.6	97.0	106.2	123.8	160.7	206.0	230.0	239.3	237.4
80°	31.4	33.3	37.9	44.3	54.5	69.3	86.8	103.5	118.3	120.1	130.3
82.5°	16.6	18.5	20.3	24.0	29.6	37.0	50.8	61.0	70.2	72.1	80.4
85°	6.5	7.4	8.3	9.2	12.9	15.7	21.2	28.6	35.1	35.1	41.6
87.5°	0.0	0.0	0.0	0.0	0.9	1.8	3.7	4.6	6.5	6.5	11.1
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: P634034

CATALOG NUMBER: GWS-SA2F-830-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2032.5	2005.7	1993.7	1974.3	1958.5	1941.0	1927.1	1917.0	1910.5	1906.8	1903.1
5°	2065.7	2025.1	1992.7	1953.9	1927.1	1901.3	1880.0	1865.2	1857.8	1852.3	1848.6
7.5°	2117.4	2062.9	2002.0	1941.9	1894.8	1853.2	1826.4	1810.7	1800.6	1796.9	1794.1
10°	2188.6	2112.8	2012.1	1917.0	1846.8	1801.5	1783.0	1775.6	1776.6	1774.7	1773.8
12.5°	2269.0	2165.5	2009.4	1872.6	1795.0	1768.2	1769.2	1781.2	1795.0	1798.7	1799.6
15°	2355.8	2217.2	1982.6	1815.4	1754.4	1757.1	1781.2	1809.8	1835.7	1845.8	1847.7
17.5°	2450.0	2260.6	1933.6	1752.5	1721.1	1750.7	1795.0	1842.1	1880.0	1896.7	1901.3
20°	2555.4	2297.6	1864.3	1690.6	1689.7	1738.7	1803.3	1865.2	1913.3	1935.5	1939.1
22.5°	2667.1	2320.7	1779.3	1633.4	1657.4	1723.0	1796.9	1861.5	1912.4	1934.5	1939.1
25°	2779.8	2328.1	1686.0	1580.7	1624.1	1698.0	1765.5	1817.2	1865.2	1884.6	1888.3
27.5°	2885.2	2306.8	1597.3	1535.4	1593.6	1661.1	1706.3	1734.1	1767.3	1782.1	1784.9
30°	2992.3	2264.3	1522.5	1499.4	1559.4	1610.3	1630.6	1632.4	1645.4	1645.4	1647.2
32.5°	3100.4	2201.5	1456.9	1464.3	1517.0	1550.2	1553.0	1531.7	1516.0	1490.2	1489.2
35°	3225.1	2137.8	1403.3	1424.6	1467.1	1487.4	1479.1	1438.4	1400.5	1358.0	1356.2
37.5°	3340.6	2072.2	1358.0	1383.9	1410.7	1425.5	1406.1	1357.1	1325.7	1282.3	1275.8
40°	3435.8	2013.1	1314.6	1341.4	1354.4	1367.3	1335.9	1296.2	1300.8	1276.8	1275.8
42.5°	3491.2	1955.8	1274.0	1294.3	1302.6	1311.9	1284.1	1254.6	1279.5	1261.0	1262.0
45°	3531.9	1905.9	1237.0	1244.4	1264.7	1278.6	1252.7	1219.5	1225.0	1153.9	1137.3
47.5°	3578.0	1878.2	1201.9	1194.5	1230.6	1254.6	1214.9	1166.8	1133.6	1063.3	1056.9
50°	3627.0	1868.0	1165.0	1144.6	1188.1	1211.2	1165.0	1104.9	1061.5	1023.6	1019.9
52.5°	3643.6	1867.1	1118.8	1084.6	1128.0	1160.3	1121.5	1060.6	1008.8	971.9	970.0
55°	3709.2	1893.9	1059.6	1002.4	1043.0	1109.5	1080.9	993.1	951.6	934.9	933.1
57.5°	3785.9	1898.5	966.3	912.8	969.1	1047.6	1011.6	935.9	890.6	870.3	868.4
60°	3754.5	1784.9	866.6	844.4	906.3	989.4	956.2	890.6	837.9	818.5	816.7
62.5°	2861.1	1260.1	793.6	785.3	838.8	905.4	898.9	830.5	780.6	766.8	764.9
65°	1721.1	885.0	723.4	722.4	760.3	824.1	832.4	777.0	724.3	704.9	704.9
67.5°	850.9	677.2	643.9	639.3	663.3	708.6	743.7	698.4	654.1	635.6	632.8
70°	601.4	596.8	585.7	572.8	577.4	595.9	610.7	572.8	525.7	507.2	503.5
72.5°	520.1	521.0	513.7	503.5	499.8	486.9	473.9	446.2	417.6	398.2	400.0
75°	403.7	405.6	410.2	406.5	396.3	382.5	368.6	333.5	310.4	291.9	288.2
77.5°	235.6	244.8	259.6	255.9	257.8	238.4	232.8	198.6	177.4	164.4	161.7
80°	133.0	138.6	145.0	149.7	144.1	135.8	123.8	105.3	98.9	89.6	87.8
82.5°	80.4	85.9	88.7	92.4	90.5	79.5	70.2	58.2	52.7	48.0	47.1
85°	40.6	44.3	47.1	49.0	43.4	36.0	32.3	25.9	22.2	19.4	19.4
87.5°	10.2	11.1	12.9	11.1	10.2	4.6	3.7	0.9	0.0	0.0	0.0
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)