

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: P633264

Luminaire Tested: GWS-SA2E-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633264  
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-SA2E-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

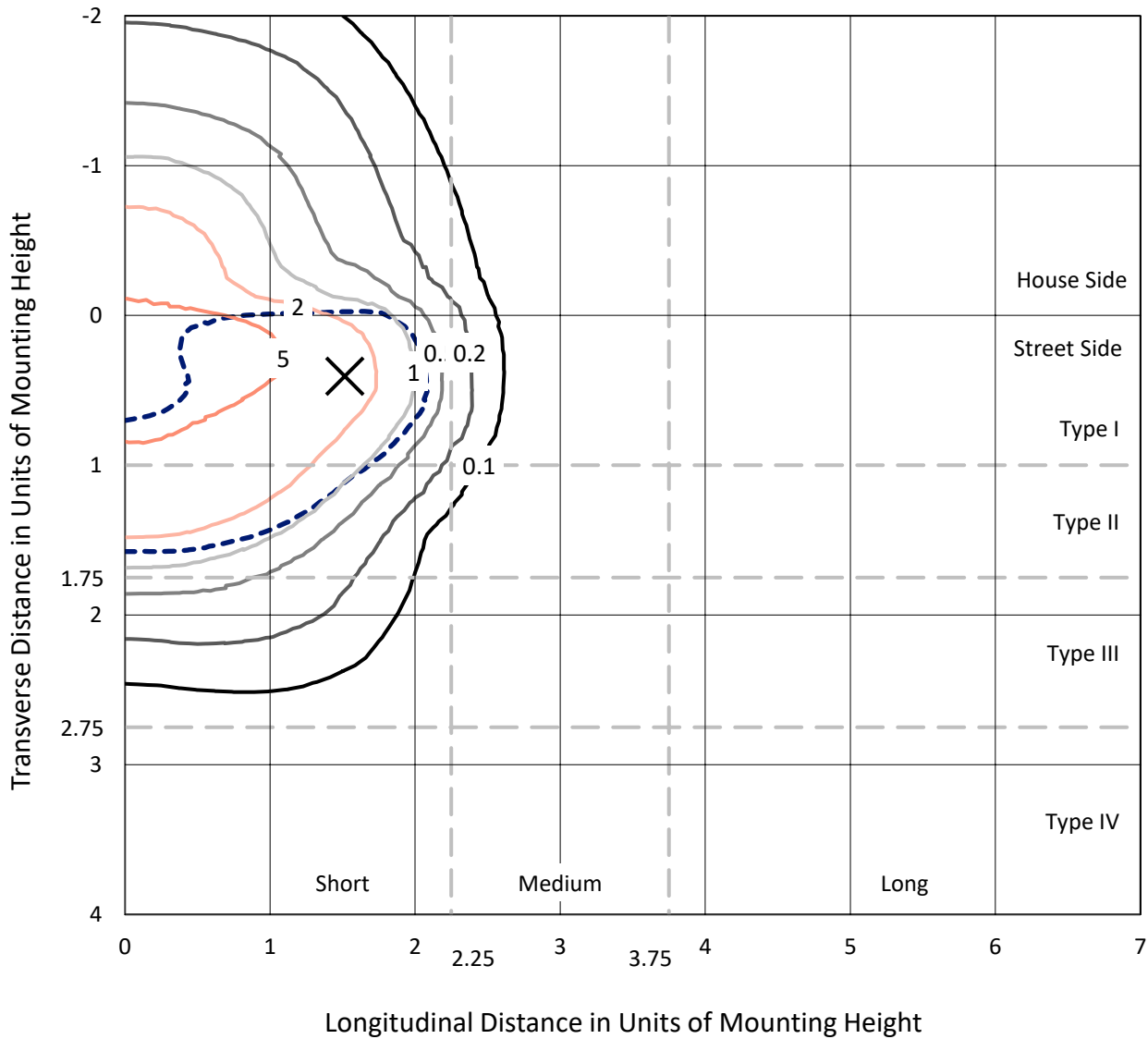
Lumens per Lamp: N/A  
Luminaire Lumens: 11998.1 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

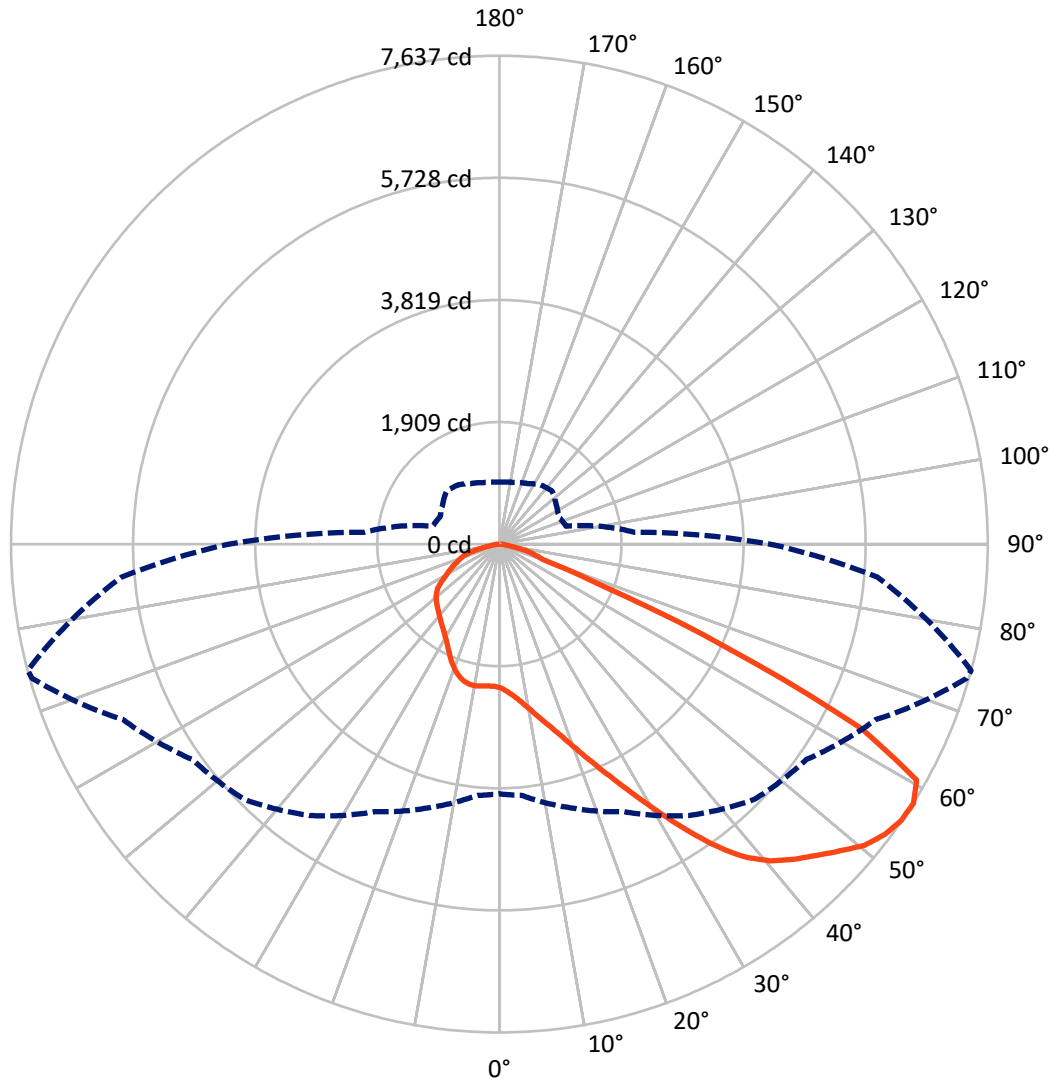
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

REPORT NUMBER: P633264  
CATALOG NUMBER: GWS-SA2E-735-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-SA2E-735-U-T2-W-GRSWH

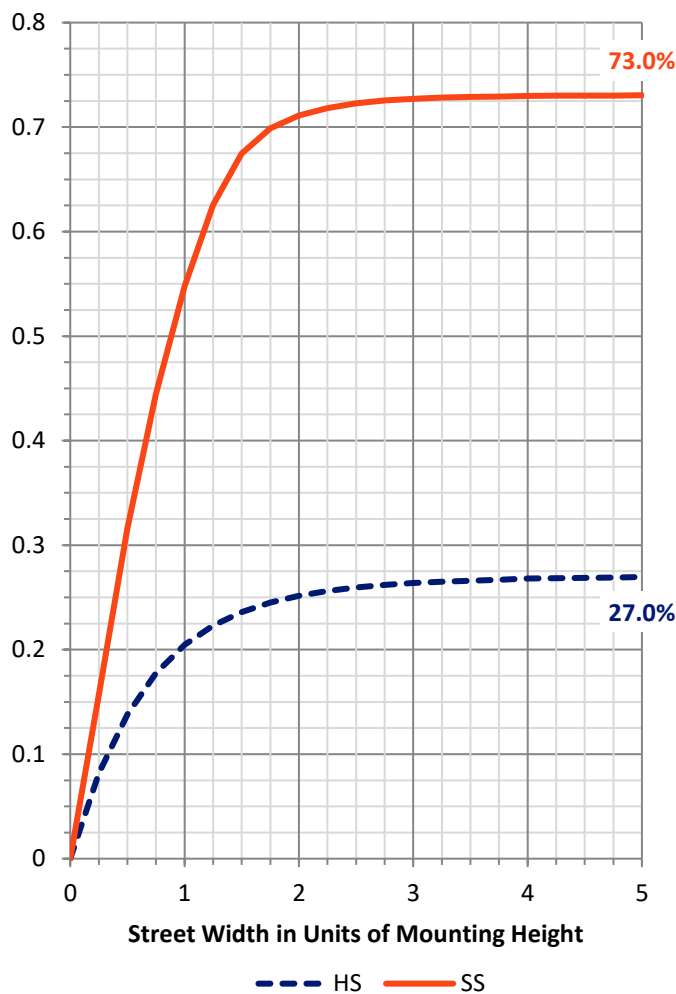
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3245.7	0.0	3245.7
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	8752.4	0.0	8752.4
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	11998.1	0.0	11998.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	1.9
10°-20°	715.9	6.0
20°-30°	1269.6	10.6
30°-40°	1943.5	16.2
40°-50°	2706.2	22.6
50°-60°	3100.8	25.8
60°-70°	1593.2	13.3
70°-80°	401.1	3.3
80°-90°	42.9	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°	11998.1	100.0
0°-180°	11998.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633264

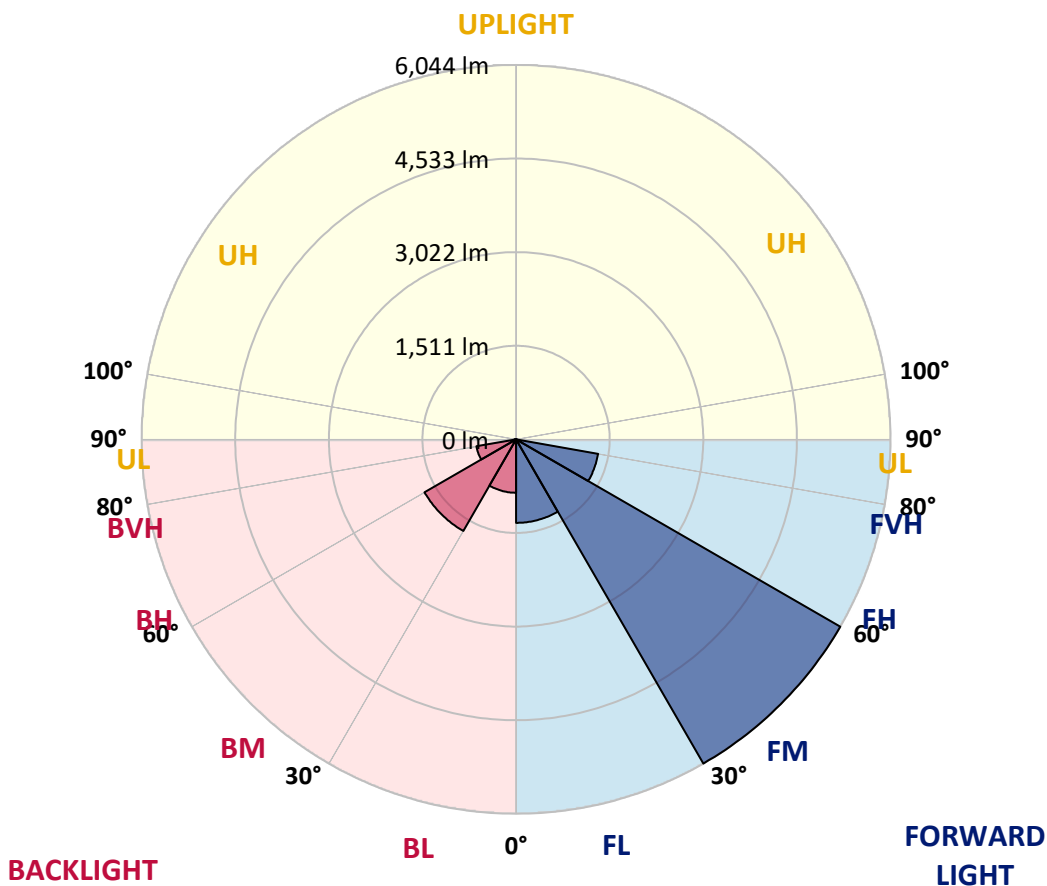
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.1	11.2			
FM (30°-60°)	6043.6	50.4			
FH (60°-80°)	1344.9	11.2			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	862.3	7.2	B2/1000		
BM (30°-60°)	1707.0	14.2	B2/2500		
BH (60°-80°)	649.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	27.0	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: P633264

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0
2.5°	2414.1	2420.3	2414.1	2424.4	2403.8	2394.5	2371.8	2337.7	2310.9	2306.8	2276.9
5°	2601.8	2615.3	2607.0	2602.9	2575.0	2554.4	2520.3	2452.3	2396.5	2388.3	2329.5
7.5°	2722.6	2731.8	2731.8	2734.9	2724.6	2700.9	2664.8	2584.3	2505.9	2493.5	2404.8
10°	2762.8	2770.0	2783.4	2809.2	2829.8	2837.1	2813.3	2736.0	2640.0	2627.6	2503.8
12.5°	2772.1	2780.3	2801.0	2848.4	2905.2	2956.7	2960.9	2904.1	2796.8	2783.4	2618.4
15°	2789.6	2797.9	2825.7	2884.5	2968.1	3067.1	3128.0	3088.8	2970.1	2955.7	2748.3
17.5°	2787.5	2796.8	2838.1	2916.5	3029.0	3172.4	3290.0	3306.5	3183.7	3158.9	2895.9
20°	2782.4	2790.6	2835.0	2930.9	3070.2	3267.3	3479.8	3565.4	3433.4	3410.7	3068.2
22.5°	2823.7	2832.9	2867.0	2946.4	3091.9	3340.5	3655.2	3861.5	3729.5	3697.5	3266.2
25°	2916.5	2929.9	2950.5	3005.2	3131.1	3405.5	3834.7	4196.8	4061.6	4023.5	3481.9
27.5°	3059.9	3076.4	3105.3	3131.1	3218.8	3488.0	4013.2	4572.3	4437.2	4396.9	3709.9
30°	3235.3	3257.0	3294.1	3311.6	3371.5	3609.8	4207.1	4959.2	4880.8	4825.1	3966.7
32.5°	3477.7	3507.6	3542.7	3547.9	3584.0	3794.4	4399.0	5343.0	5341.9	5302.7	4258.7
35°	3793.4	3825.4	3832.6	3839.8	3857.4	4048.2	4631.1	5692.7	5827.8	5782.5	4576.4
37.5°	4138.0	4184.4	4195.8	4163.8	4188.5	4353.6	4892.1	5973.3	6250.8	6202.3	4883.9
40°	4506.3	4524.9	4555.8	4505.3	4536.2	4703.3	5148.0	6152.8	6566.5	6514.9	5126.3
42.5°	4770.4	4804.4	4850.9	4832.3	4849.8	5002.5	5327.5	6239.5	6791.4	6739.8	5300.7
45°	5057.2	5067.5	5097.4	5093.3	5103.6	5246.0	5456.5	6277.7	6992.6	6946.2	5449.2
47.5°	5306.9	5322.3	5341.9	5319.2	5296.5	5389.4	5561.7	6310.7	7224.7	7169.0	5605.0
50°	5547.2	5560.6	5584.4	5518.4	5433.8	5457.5	5613.3	6356.1	7442.4	7403.2	5727.8
52.5°	5591.6	5606.0	5717.5	5730.9	5622.5	5539.0	5704.0	6456.1	7570.3	7545.6	5772.1
55°	5033.5	5059.3	5281.1	5535.9	5803.1	5776.3	5849.5	6508.7	7620.9	7627.1	5851.6
57.5°	3906.9	3944.0	4268.0	4617.7	5180.0	5645.2	5868.1	6495.3	7603.3	7637.4	5933.1
60°	2562.6	2584.3	2968.1	3360.1	3943.0	4586.8	5252.2	6253.9	7447.6	7496.0	5912.4
62.5°	1547.5	1572.3	1880.7	2177.8	2521.4	2951.6	3562.3	5026.2	6242.6	6350.9	4735.3
65°	1080.1	1113.2	1383.5	1628.0	1746.6	1657.9	1804.4	2807.1	3889.4	3934.8	2893.8
67.5°	783.0	805.7	1027.5	1318.5	1449.5	1170.9	892.4	1243.2	1694.0	1710.5	1193.6
70°	512.7	538.5	739.7	1003.8	1183.3	949.1	667.5	672.6	712.9	721.1	693.3
72.5°	281.6	297.1	457.0	666.5	699.5	567.4	521.0	559.2	587.0	587.0	594.2
75°	145.5	158.9	186.7	219.7	265.1	310.5	375.5	432.3	462.2	464.2	461.2
77.5°	74.3	79.4	100.1	108.3	118.6	138.2	179.5	230.1	256.9	267.2	265.1
80°	35.1	37.1	42.3	49.5	60.9	77.4	97.0	115.5	132.1	134.1	145.5
82.5°	18.6	20.6	22.7	26.8	33.0	41.3	56.7	68.1	78.4	80.5	89.8
85°	7.2	8.3	9.3	10.3	14.4	17.5	23.7	32.0	39.2	39.2	46.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	5.2	7.2	7.2	12.4
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: P633264

CATALOG NUMBER: GWS-SA2E-735-U-T2-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0	2247.0
2.5°	2269.7	2239.7	2226.3	2204.7	2187.1	2167.5	2152.0	2140.7	2133.5	2129.3	2125.2
5°	2306.8	2261.4	2225.3	2182.0	2152.0	2123.2	2099.4	2082.9	2074.7	2068.5	2064.4
7.5°	2364.6	2303.7	2235.6	2168.5	2115.9	2069.5	2039.6	2022.1	2010.7	2006.6	2003.5
10°	2444.0	2359.4	2247.0	2140.7	2062.3	2011.7	1991.1	1982.9	1983.9	1981.8	1980.8
12.5°	2533.8	2418.2	2243.9	2091.2	2004.5	1974.6	1975.6	1989.0	2004.5	2008.6	2009.7
15°	2630.7	2476.0	2213.9	2027.2	1959.1	1962.2	1989.0	2021.0	2049.9	2061.3	2063.3
17.5°	2736.0	2524.5	2159.3	1957.1	1922.0	1955.0	2004.5	2057.1	2099.4	2118.0	2123.2
20°	2853.6	2565.7	2081.9	1887.9	1886.9	1941.6	2013.8	2082.9	2136.6	2161.3	2165.5
22.5°	2978.4	2591.5	1987.0	1824.0	1850.8	1924.0	2006.6	2078.8	2135.5	2160.3	2165.5
25°	3104.3	2599.8	1882.8	1765.2	1813.7	1896.2	1971.5	2029.3	2082.9	2104.6	2108.7
27.5°	3221.9	2576.1	1783.7	1714.6	1779.6	1854.9	1905.5	1936.4	1973.6	1990.1	1993.2
30°	3341.5	2528.6	1700.2	1674.4	1741.4	1798.2	1820.9	1822.9	1837.4	1837.4	1839.5
32.5°	3462.3	2458.4	1626.9	1635.2	1694.0	1731.1	1734.2	1710.5	1693.0	1664.1	1663.0
35°	3601.5	2387.3	1567.1	1590.8	1638.3	1661.0	1651.7	1606.3	1564.0	1516.5	1514.5
37.5°	3730.5	2314.0	1516.5	1545.4	1575.3	1591.9	1570.2	1515.5	1480.4	1431.9	1424.7
40°	3836.7	2248.0	1468.1	1498.0	1512.4	1526.9	1491.8	1447.4	1452.6	1425.8	1424.7
42.5°	3898.6	2184.0	1422.7	1445.4	1454.6	1465.0	1434.0	1401.0	1428.8	1408.2	1409.2
45°	3944.0	2128.3	1381.4	1389.6	1412.3	1427.8	1398.9	1361.8	1368.0	1288.5	1270.0
47.5°	3995.6	2097.4	1342.2	1333.9	1374.2	1401.0	1356.6	1303.0	1265.8	1187.4	1180.2
50°	4050.3	2086.0	1300.9	1278.2	1326.7	1352.5	1300.9	1233.9	1185.4	1143.1	1139.0
52.5°	4068.9	2085.0	1249.3	1211.2	1259.7	1295.8	1252.4	1184.3	1126.6	1085.3	1083.2
55°	4142.1	2114.9	1183.3	1119.4	1164.7	1239.0	1207.0	1109.0	1062.6	1044.0	1042.0
57.5°	4227.7	2120.1	1079.1	1019.3	1082.2	1169.9	1129.7	1045.1	994.5	971.8	969.8
60°	4192.7	1993.2	967.7	942.9	1012.1	1104.9	1067.8	994.5	935.7	914.1	912.0
62.5°	3195.1	1407.2	886.2	876.9	936.7	1011.0	1003.8	927.5	871.8	856.3	854.2
65°	1922.0	988.3	807.8	806.8	849.1	920.2	929.5	867.6	808.8	787.2	787.2
67.5°	950.2	756.2	719.1	713.9	740.7	791.3	830.5	779.9	730.4	709.8	706.7
70°	671.6	666.5	654.1	639.6	644.8	665.4	681.9	639.6	587.0	566.4	562.3
72.5°	580.8	581.9	573.6	562.3	558.1	543.7	529.2	498.3	466.3	444.6	446.7
75°	450.8	452.9	458.1	453.9	442.6	427.1	411.6	372.4	346.6	326.0	321.9
77.5°	263.1	273.4	289.9	285.8	287.8	266.2	260.0	221.8	198.1	183.6	180.5
80°	148.6	154.7	162.0	167.1	160.9	151.7	138.2	117.6	110.4	100.1	98.0
82.5°	89.8	95.9	99.0	103.2	101.1	88.7	78.4	65.0	58.8	53.6	52.6
85°	45.4	49.5	52.6	54.7	48.5	40.2	36.1	28.9	24.8	21.7	21.7
87.5°	11.3	12.4	14.4	12.4	11.3	5.2	4.1	1.0	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)