

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: P632451

Luminaire Tested: GWS-SA2C-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-760-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

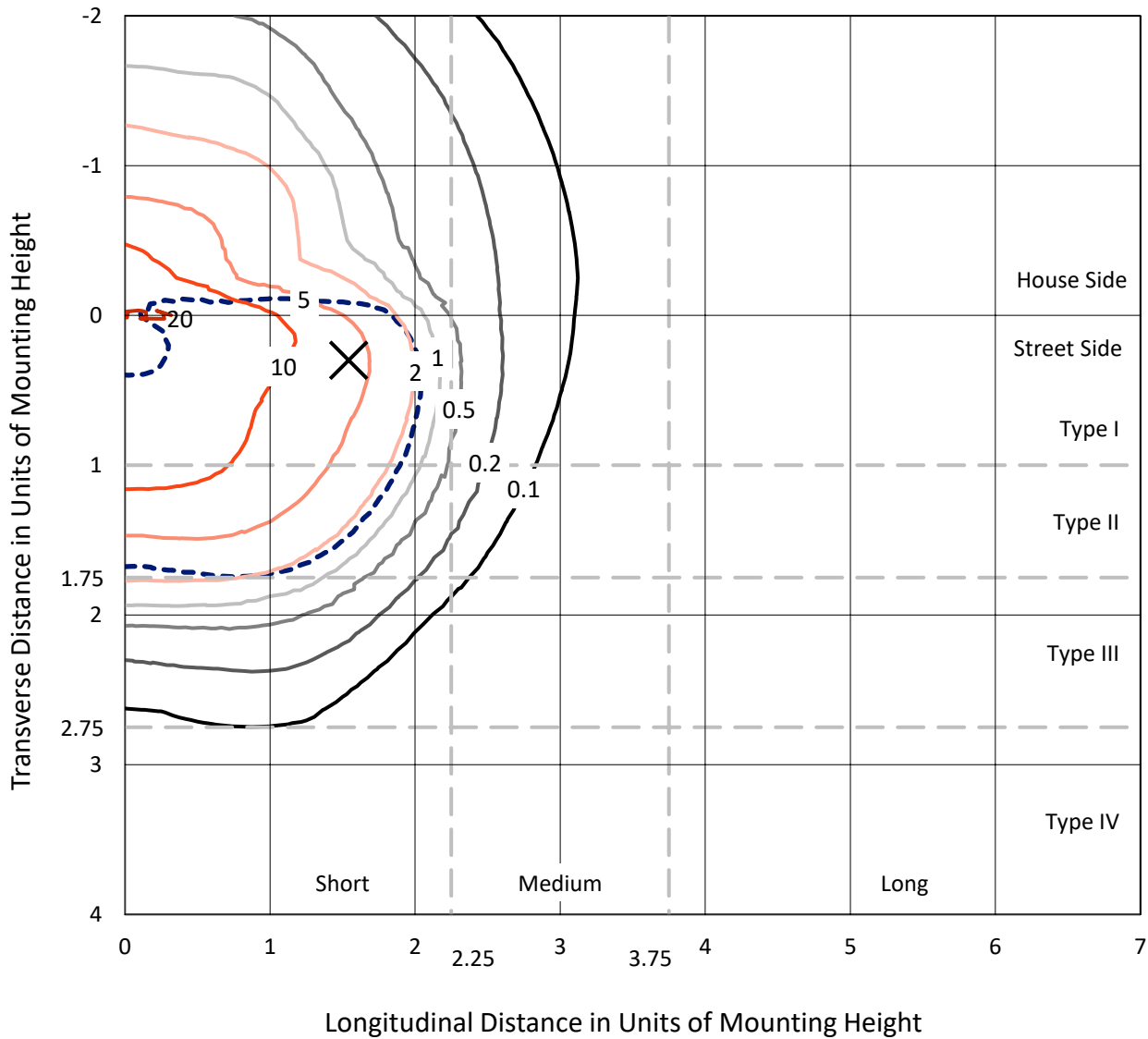
Lumens per Lamp: N/A  
Luminaire Lumens: 8186.6 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

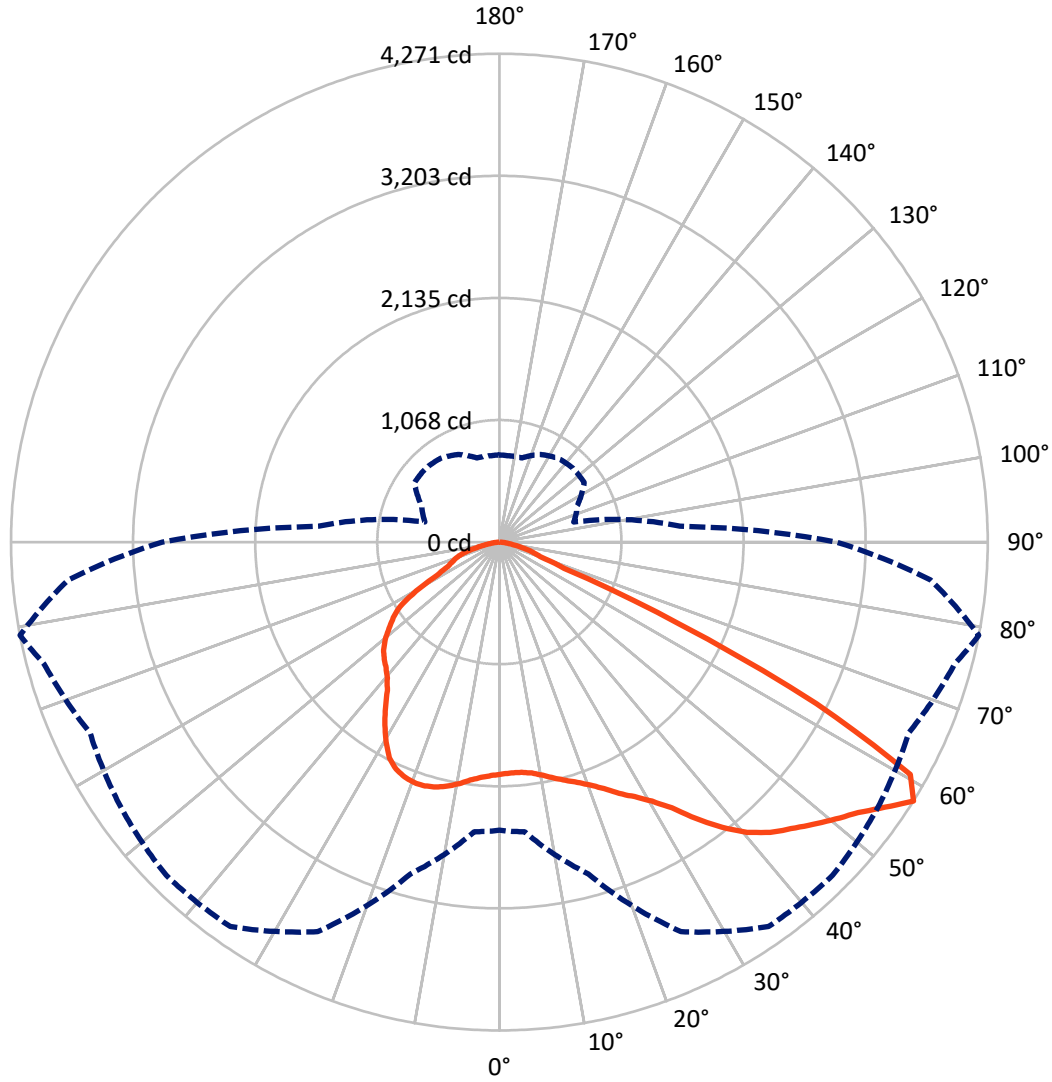
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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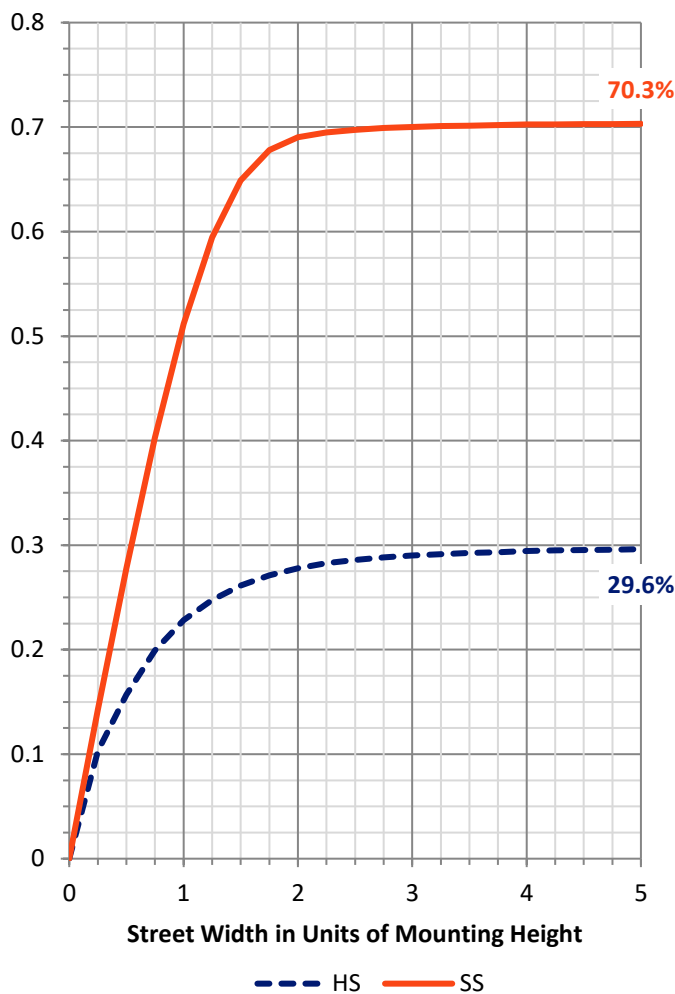
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2433.5	0.0	2433.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	5753.1	0.0	5753.1
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	8186.6	0.0	8186.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.9	2.3
10°-20°	522.1	6.4
20°-30°	885.0	10.8
30°-40°	1354.7	16.5
40°-50°	1806.3	22.1
50°-60°	2086.2	25.5
60°-70°	1084.0	13.2
70°-80°	230.4	2.8
80°-90°	29.8	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°	8186.6	100.0
0°-180°	8186.6	100.0

**Coefficient of Utilization**



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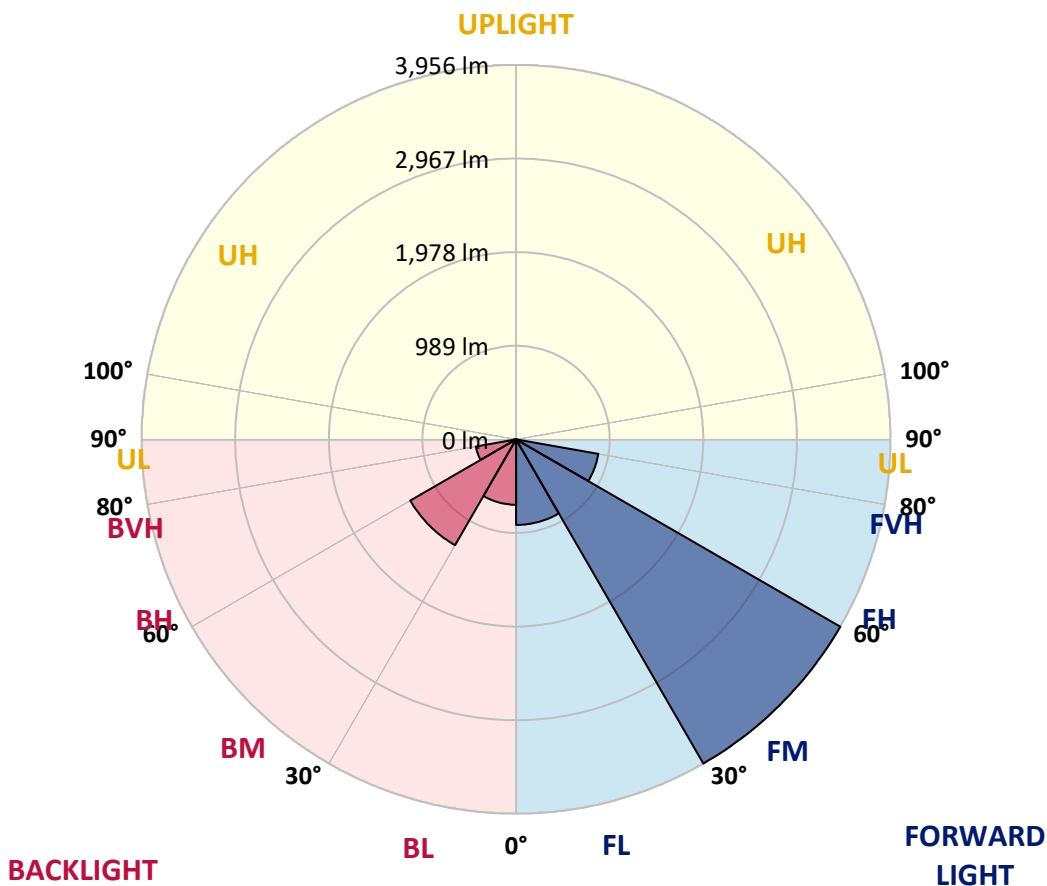
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.0	11.0			
FM (30°-60°)	3956.0	48.3			
FH (60°-80°)	882.7	10.8			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	691.1	8.4	B2/1000		
BM (30°-60°)	1291.2	15.8	B2/2500		
BH (60°-80°)	431.8	5.3	B1/500		G1/500
BVH (80°-90°)	19.4	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°	55°	65°	75°	79°	85°
0°	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8
2.5°	1936.5	1932.4	1933.8	1939.1	1959.2	1973.9	1989.3	2003.4	2016.8	2020.8	2024.1
5°	1867.5	1860.2	1862.2	1870.9	1894.3	1919.1	1946.5	1980.0	2012.1	2022.8	2036.9
7.5°	1818.6	1817.3	1820.7	1834.0	1858.8	1882.2	1917.7	1965.2	2020.8	2038.9	2063.6
10°	1753.7	1751.0	1764.4	1791.9	1832.7	1870.2	1912.4	1968.6	2046.2	2073.0	2111.2
12.5°	1702.2	1700.8	1714.9	1753.1	1805.3	1864.8	1923.1	1986.0	2080.4	2117.2	2164.0
15°	1732.3	1726.3	1726.9	1753.7	1800.6	1870.9	1949.8	2017.4	2114.5	2161.4	2221.6
17.5°	1820.0	1809.3	1801.2	1805.9	1832.7	1905.7	1990.7	2059.6	2154.0	2208.9	2282.5
20°	1941.1	1935.1	1913.0	1898.3	1904.3	1968.6	2054.9	2119.2	2205.5	2267.1	2346.1
22.5°	2103.8	2089.1	2058.9	2035.5	2017.4	2067.7	2147.3	2202.9	2277.2	2341.4	2423.8
25°	2305.3	2283.9	2236.3	2199.5	2160.7	2212.2	2283.2	2325.4	2375.6	2435.1	2513.4
27.5°	2510.8	2492.7	2439.8	2390.3	2342.1	2374.2	2458.6	2482.7	2477.3	2520.8	2587.7
30°	2729.6	2706.9	2656.7	2603.1	2540.9	2561.6	2637.3	2649.3	2592.4	2628.6	2674.1
32.5°	2960.6	2938.5	2895.0	2832.7	2762.4	2770.5	2791.2	2802.6	2748.4	2769.1	2803.9
35°	3195.5	3174.8	3130.6	3069.0	3017.5	2968.6	2916.4	2961.9	2930.5	2970.6	2967.9
37.5°	3410.4	3389.6	3362.2	3314.7	3226.3	3129.9	3009.4	3065.7	3114.5	3165.4	3156.7
40°	3555.6	3541.6	3548.3	3540.9	3427.1	3236.4	3055.0	3116.5	3249.7	3336.8	3332.1
42.5°	3680.8	3666.8	3705.6	3733.7	3599.8	3334.7	3077.0	3135.9	3336.1	3472.0	3465.3
45°	3736.4	3732.3	3796.6	3885.6	3757.8	3439.2	3133.9	3176.1	3401.7	3575.7	3550.3
47.5°	3670.1	3684.2	3810.7	3961.3	3889.0	3563.0	3250.4	3261.1	3487.4	3688.2	3616.5
50°	3538.2	3569.0	3739.7	3963.3	3984.7	3702.9	3411.7	3385.0	3602.5	3808.0	3651.4
52.5°	3346.1	3378.3	3656.7	3947.9	4039.6	3864.9	3626.6	3588.4	3747.7	3927.8	3657.4
55°	2905.0	2948.5	3466.6	3913.1	4093.1	4012.1	3868.9	3791.3	3935.2	4092.5	3717.0
57.5°	2520.1	2542.9	3003.4	3758.5	4103.8	4120.6	4041.6	3949.2	4121.2	4270.5	3783.9
60°	1849.4	1854.8	2269.1	3109.8	3775.2	4057.7	4027.5	3890.3	4032.9	4127.9	3477.3
62.5°	1044.9	1045.5	1376.2	2075.7	2820.0	3307.3	3326.0	3204.9	3085.1	3113.2	2420.4
65°	392.2	429.1	628.5	1020.1	1625.9	1952.5	2030.2	2058.3	1858.8	1735.0	1297.9
67.5°	262.4	271.1	366.8	524.8	723.6	835.4	934.4	937.1	685.4	611.1	511.4
70°	200.1	208.8	288.5	375.5	366.8	338.7	366.1	356.1	368.1	378.2	388.9
72.5°	149.3	158.0	223.6	265.1	220.2	216.9	245.7	273.1	298.5	309.2	326.0
75°	99.1	105.8	150.6	141.9	121.8	143.9	179.4	206.8	221.6	234.3	247.0
77.5°	62.9	67.6	80.3	64.9	67.6	84.3	104.4	129.2	143.2	156.0	162.7
80°	28.8	28.1	27.4	30.8	38.2	49.5	62.9	77.6	88.4	93.7	97.7
82.5°	11.4	12.7	14.1	16.7	20.8	26.8	35.5	45.5	54.2	55.6	58.9
85°	4.7	5.4	6.0	7.4	9.4	12.0	14.7	20.8	26.1	28.1	30.1
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.0	3.3	6.0	6.7	7.4
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°	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8	2028.8
2.5°	2042.2	2033.5	2048.2	2058.3	2067.7	2057.6	2054.3	2045.6	2044.2	2044.2	2048.9
5°	2061.0	2054.9	2070.3	2076.4	2075.7	2053.6	2040.2	2022.8	2014.1	2014.1	2015.4
7.5°	2094.4	2091.1	2099.8	2090.4	2069.0	2024.1	1980.0	1943.2	1918.4	1905.7	1909.7
10°	2150.0	2146.0	2138.6	2103.8	2042.2	1949.2	1858.8	1791.9	1751.7	1729.0	1730.3
12.5°	2204.2	2197.5	2171.4	2094.4	1967.9	1820.0	1701.5	1626.5	1582.4	1555.6	1549.6
15°	2263.8	2246.4	2190.1	2046.2	1846.8	1662.0	1538.2	1457.2	1409.7	1393.6	1392.9
17.5°	2320.7	2289.9	2188.1	1960.6	1701.5	1496.7	1372.2	1322.0	1314.0	1321.3	1323.3
20°	2378.2	2328.7	2166.0	1842.1	1528.8	1332.0	1267.8	1288.5	1318.6	1338.7	1343.4
22.5°	2437.8	2360.8	2115.8	1689.5	1346.8	1220.9	1247.7	1293.2	1330.7	1357.5	1360.1
25°	2504.7	2391.0	2040.9	1502.7	1200.8	1190.1	1243.0	1291.2	1331.4	1362.1	1367.5
27.5°	2542.9	2391.6	1935.8	1310.6	1133.9	1178.1	1231.6	1277.1	1317.3	1350.8	1356.8
30°	2580.4	2373.5	1769.1	1154.6	1114.5	1164.0	1212.2	1254.4	1292.5	1325.3	1332.7
32.5°	2633.3	2356.8	1577.0	1065.0	1103.1	1150.6	1190.1	1227.6	1257.1	1271.8	1275.8
35°	2698.9	2335.4	1372.9	1026.1	1095.7	1139.9	1174.7	1194.8	1156.7	1148.6	1157.3
37.5°	2790.6	2315.3	1169.4	1009.4	1091.1	1135.9	1166.7	1115.2	1068.3	1049.6	1056.2
40°	2889.6	2303.9	1031.5	996.0	1093.1	1139.9	1133.2	1056.9	989.3	949.8	948.5
42.5°	2974.0	2286.5	943.1	987.3	1098.4	1155.3	1087.7	1005.4	905.0	881.5	882.2
45°	3030.9	2242.4	896.3	977.9	1103.1	1158.7	1066.3	934.4	862.8	848.1	847.4
47.5°	3054.3	2162.0	866.2	963.2	1102.4	1131.2	1022.8	905.0	833.4	829.3	832.0
50°	3038.9	2030.2	835.4	934.4	1086.4	1102.4	972.6	878.9	813.3	835.4	851.4
52.5°	2982.0	1859.5	798.5	894.9	1057.6	1069.6	947.1	862.8	798.5	828.0	840.7
55°	2967.3	1720.9	751.7	843.4	1014.7	1011.4	920.4	854.8	788.5	777.1	779.1
57.5°	2947.9	1585.7	674.0	751.0	906.3	911.7	894.9	845.4	762.4	759.1	762.4
60°	2561.0	1215.6	601.1	647.9	744.3	773.1	866.2	828.0	720.2	706.2	705.5
62.5°	1672.7	736.3	534.8	564.9	606.4	639.9	789.8	777.8	674.0	665.3	671.4
65°	899.6	524.8	486.6	504.7	527.5	552.9	654.6	692.8	609.1	578.3	579.0
67.5°	459.9	446.5	450.5	463.2	480.6	493.3	528.1	561.6	519.4	493.3	492.6
70°	393.6	404.3	410.3	417.7	429.1	427.1	430.4	436.4	433.1	420.4	419.7
72.5°	335.3	352.1	353.4	354.8	358.8	349.4	343.4	333.3	334.0	336.0	336.7
75°	255.0	271.1	275.1	273.1	277.1	265.1	257.0	247.0	234.9	232.9	234.3
77.5°	166.0	178.7	184.7	183.4	185.4	176.0	172.0	161.3	147.3	141.9	141.9
80°	100.4	107.8	112.5	113.8	115.8	109.1	102.4	93.0	87.0	81.0	81.0
82.5°	60.9	65.6	68.9	68.9	71.0	63.6	58.2	51.5	48.9	43.5	43.5
85°	30.8	34.1	35.5	34.8	33.5	27.4	25.4	22.1	20.8	18.1	18.1
87.5°	7.4	9.4	9.4	6.7	6.7	3.3	2.0	0.7	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)