

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: P640124

Luminaire Tested: GWS-SA5D-730-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640124  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

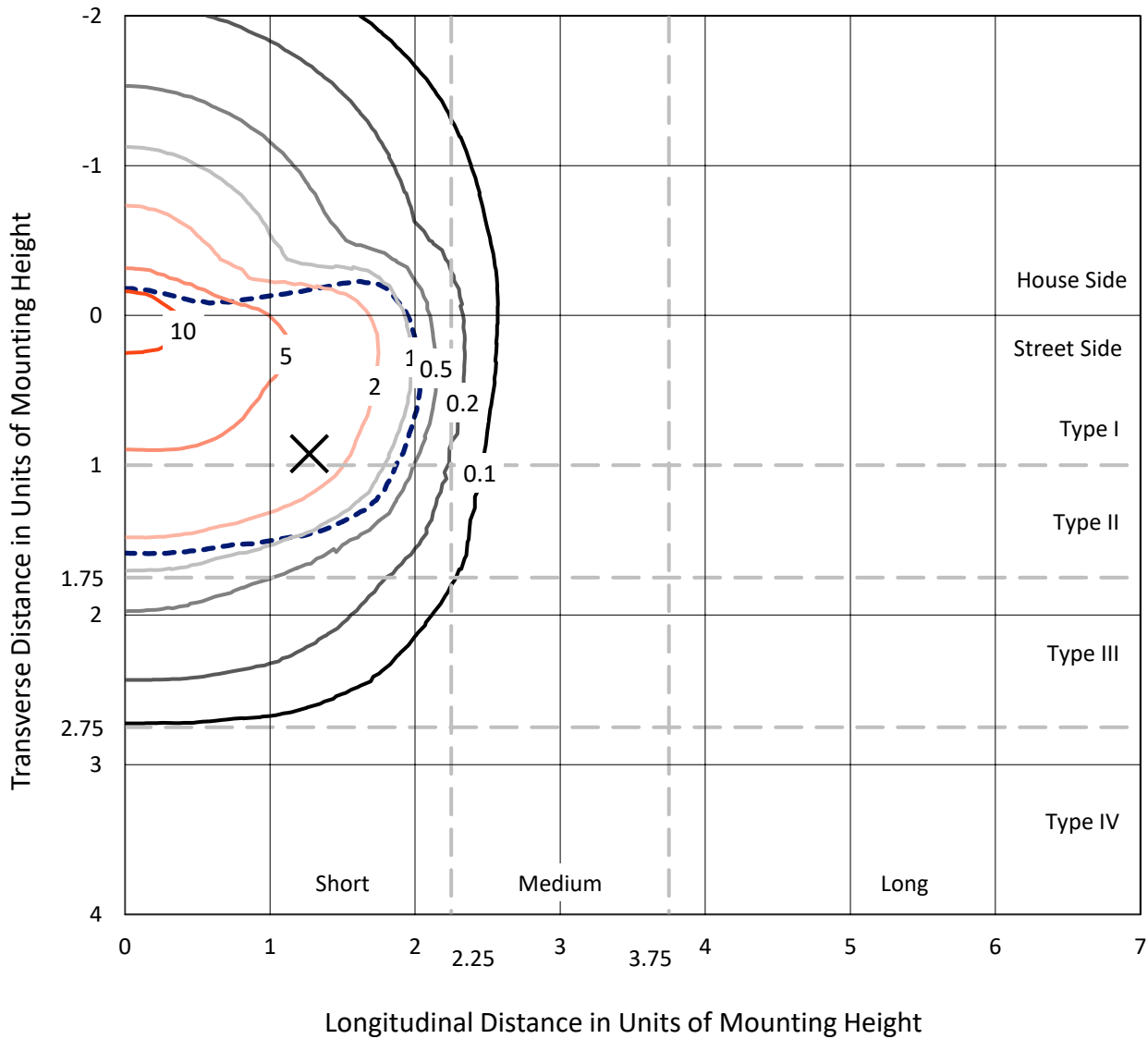
Lumens per Lamp: N/A  
Luminaire Lumens: 22909 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

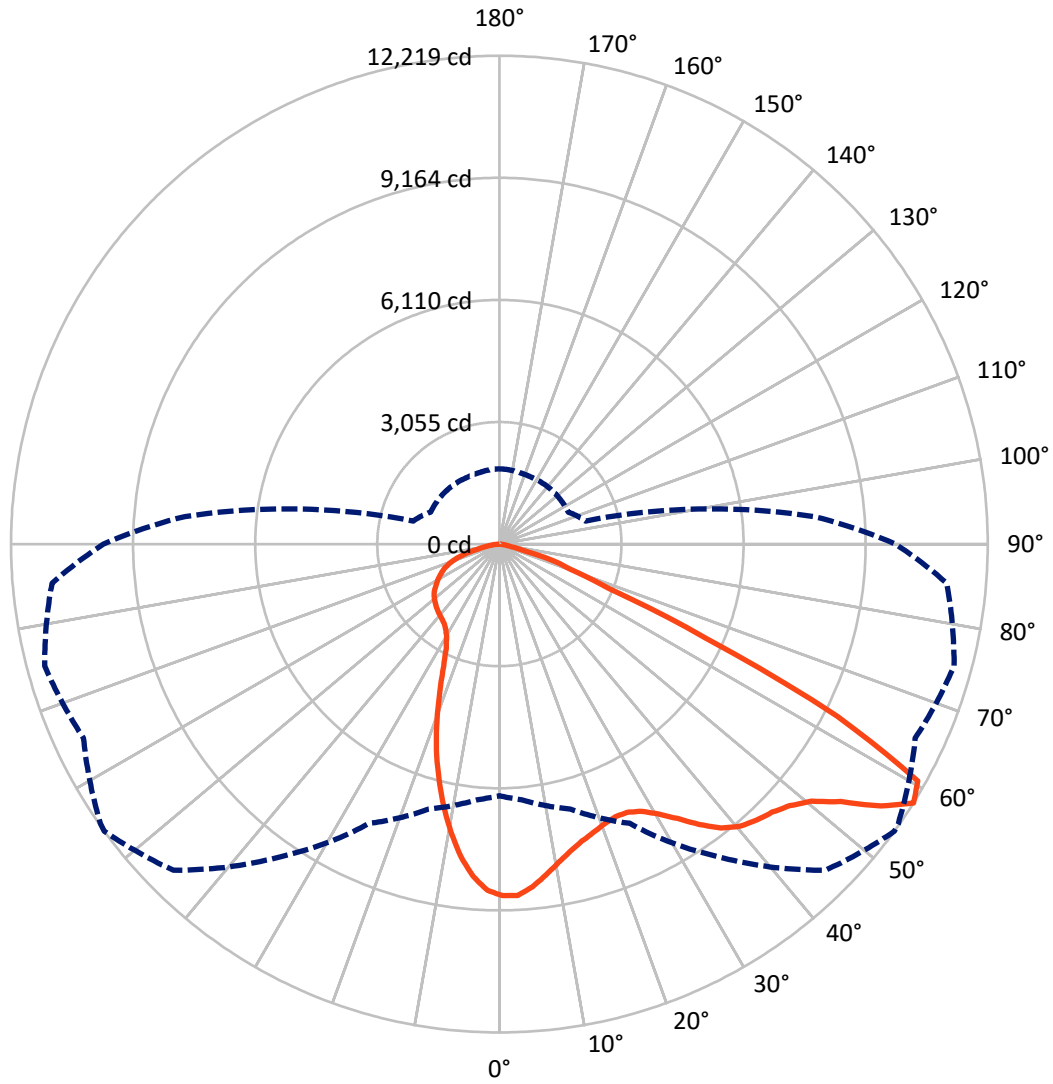
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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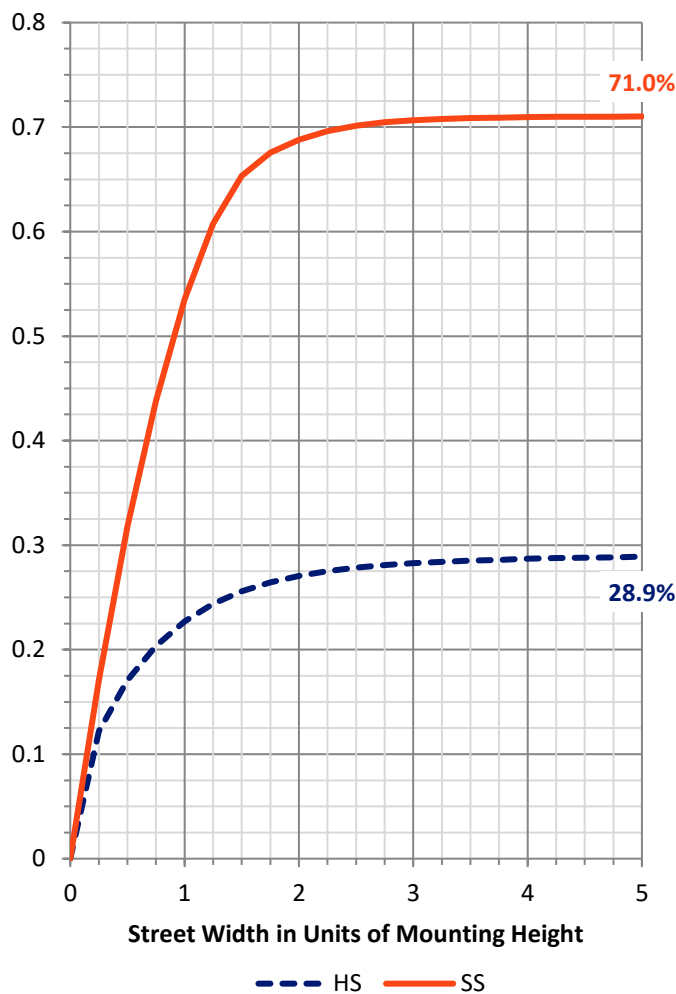
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6659.9	0.0	6659.9
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	16249.1	0.0	16249.1
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	22909.0	0.0	22909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	773.1	3.4
10°-20°	1844.7	8.1
20°-30°	2552.8	11.1
30°-40°	3547.1	15.5
40°-50°	4684.7	20.4
50°-60°	5567.0	24.3
60°-70°	3084.2	13.5
70°-80°	768.0	3.4
80°-90°	87.3	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°	22909.0	100.0
0°-180°	22909.0	100.0

**Coefficient of Utilization**



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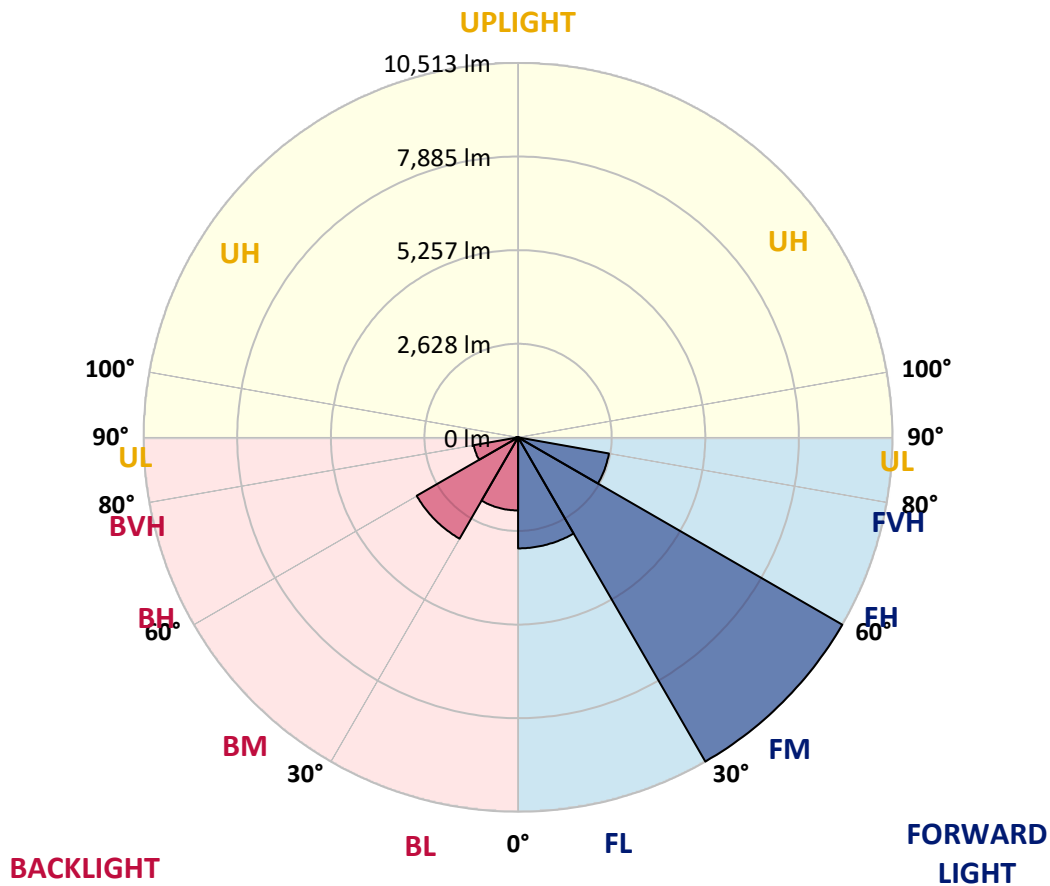
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3118.3	13.6			
FM (30°-60°)	10513.3	45.9			
FH (60°-80°)	2590.2	11.3			G2/5000
FVH (80°-90°)	27.3	0.1			G1/100
BL (0°-30°)	2052.3	9.0	B3/2500		
BM (30°-60°)	3285.5	14.3	B3/5000		
BH (60°-80°)	1262.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	60.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3
2.5°	8630.6	8648.2	8660.0	8701.2	8736.5	8767.8	8801.2	8801.2	8799.2	8793.3	8781.6
5°	8289.3	8308.9	8336.4	8393.3	8469.8	8524.7	8614.9	8622.7	8661.9	8677.6	8669.8
7.5°	7893.2	7899.1	7934.4	8008.9	8130.5	8228.5	8358.0	8373.7	8467.8	8522.7	8512.9
10°	7459.8	7440.2	7503.0	7612.8	7771.6	7936.3	8103.0	8116.8	8267.8	8371.7	8363.9
12.5°	7063.7	7065.6	7128.4	7261.7	7459.8	7663.8	7887.3	7918.7	8105.0	8238.3	8224.6
15°	6732.3	6740.1	6816.6	6967.6	7193.1	7436.3	7714.7	7744.2	7979.5	8156.0	8116.8
17.5°	6467.5	6475.4	6542.0	6714.6	6955.8	7250.0	7589.2	7618.7	7910.9	8120.7	8040.3
20°	6285.1	6281.2	6345.9	6510.7	6759.7	7079.4	7479.4	7522.6	7889.3	8134.4	7989.3
22.5°	6210.6	6208.7	6255.7	6391.0	6624.4	6948.0	7412.7	7471.6	7912.8	8195.2	7957.9
25°	6247.9	6240.0	6281.2	6381.2	6567.5	6897.0	7432.4	7495.1	8012.8	8320.7	7963.8
27.5°	6363.6	6353.8	6389.1	6479.3	6620.5	6949.9	7569.6	7642.2	8224.6	8550.2	8042.2
30°	6540.1	6534.2	6569.5	6655.8	6779.3	7126.4	7832.4	7914.8	8552.1	8907.1	8212.9
32.5°	6746.0	6736.2	6798.9	6899.0	7042.1	7448.0	8185.4	8293.3	8940.4	9365.9	8499.2
35°	6977.4	6969.6	7055.8	7201.0	7406.9	7895.2	8612.9	8730.6	9336.5	9885.6	8879.6
37.5°	7202.9	7202.9	7369.6	7585.3	7844.2	8381.5	9014.9	9089.4	9611.1	10346.5	9287.5
40°	7402.9	7414.7	7665.7	7989.3	8318.8	8820.8	9279.7	9342.4	9732.7	10664.2	9642.5
42.5°	7624.5	7634.3	7926.5	8350.1	8742.3	9175.7	9440.5	9471.8	9756.2	10823.0	9893.5
45°	7801.0	7814.8	8177.6	8630.6	9111.0	9442.4	9567.9	9595.4	9789.5	10909.3	10075.8
47.5°	7893.2	7912.8	8328.6	8856.1	9360.1	9681.7	9777.8	9789.5	9926.8	11060.3	10295.5
50°	7877.5	7916.7	8385.4	8967.9	9544.4	9922.9	10115.1	10134.7	10207.2	11281.9	10552.4
52.5°	8016.8	8034.4	8507.0	9101.2	9807.2	10368.0	10701.4	10728.9	10695.5	11448.6	10705.3
55°	7785.3	7869.7	8356.0	9081.6	10207.2	11056.4	11570.2	11556.4	11138.7	11634.9	10960.3
57.5°	6296.9	6420.5	6865.6	7708.9	9548.3	11538.8	12219.3	12185.9	11481.9	11778.0	11236.8
60°	4359.4	4379.0	4781.0	5379.1	7369.6	10193.5	12029.0	12101.6	11544.7	11597.6	10725.0
62.5°	3486.7	3480.9	3518.1	3533.8	4686.9	7165.7	9495.4	9760.1	9591.5	9036.5	7601.0
65°	2976.9	2998.4	3108.3	3051.4	3059.2	4035.8	5673.3	5710.6	5592.9	5392.9	4020.1
67.5°	2329.7	2367.0	2561.1	2782.7	2712.1	2598.4	2943.5	2925.9	2306.2	1784.6	1474.7
70°	1459.0	1482.5	1690.4	2184.6	2361.1	2133.6	1892.4	1884.6	1235.5	1015.8	1113.9
72.5°	851.1	855.0	913.8	1217.8	1566.9	1459.0	1392.3	1341.4	794.2	809.9	888.4
75°	468.7	468.7	466.7	525.6	617.7	547.1	529.5	515.8	531.4	602.0	660.9
77.5°	98.1	100.0	105.9	139.2	180.4	219.6	276.5	278.5	347.1	402.0	449.1
80°	45.1	47.1	58.8	74.5	96.1	127.5	168.6	170.6	209.8	253.0	284.4
82.5°	23.5	25.5	31.4	39.2	51.0	66.7	94.1	94.1	125.5	149.0	168.6
85°	7.8	7.8	11.8	15.7	21.6	27.5	37.3	37.3	54.9	72.6	84.3
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	7.8	7.8	9.8	11.8	19.6
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°	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3	8795.3
2.5°	8756.1	8695.3	8697.2	8709.0	8671.7	8614.9	8577.6	8530.5	8501.1	8495.2	8516.8
5°	8630.6	8560.0	8510.9	8459.9	8354.1	8228.5	8130.5	8050.1	7997.1	7977.5	7954.0
7.5°	8458.0	8365.8	8242.3	8099.1	7906.9	7683.4	7526.5	7379.4	7277.4	7248.0	7234.3
10°	8285.4	8152.1	7932.4	7665.7	7346.1	7044.1	6759.7	6542.0	6369.5	6271.4	6302.8
12.5°	8107.0	7942.2	7599.0	7189.2	6744.0	6289.1	5916.5	5555.6	5277.2	5137.9	5096.8
15°	7950.1	7726.5	7248.0	6693.0	6100.8	5528.2	4988.9	4447.6	4094.7	3902.5	3849.5
17.5°	7816.7	7526.5	6877.4	6187.1	5479.2	4663.4	4000.5	3498.5	3257.3	3151.4	3143.6
20°	7685.3	7330.4	6510.7	5641.9	4761.4	3847.6	3255.3	3020.0	2933.7	2896.5	2894.5
22.5°	7567.7	7124.5	6124.3	5096.8	4047.6	3233.8	2908.2	2806.3	2782.7	2782.7	2778.8
25°	7467.7	6918.6	5728.2	4518.2	3402.4	2878.8	2727.8	2684.7	2694.5	2712.1	2714.1
27.5°	7426.5	6757.8	5345.8	3924.1	2957.3	2672.9	2604.3	2598.4	2625.8	2653.3	2657.2
30°	7469.6	6647.9	4953.6	3355.3	2690.6	2547.4	2516.0	2527.8	2561.1	2588.6	2588.6
32.5°	7603.0	6593.0	4553.5	2939.6	2535.6	2459.2	2449.3	2461.1	2486.6	2502.3	2504.3
35°	7828.5	6614.6	4139.8	2659.2	2435.6	2394.4	2392.5	2400.3	2410.1	2419.9	2421.9
37.5°	8112.8	6710.7	3696.6	2496.4	2370.9	2347.4	2343.4	2341.5	2343.4	2343.4	2345.4
40°	8391.3	6855.8	3300.4	2400.3	2325.8	2306.2	2296.4	2282.7	2280.7	2276.8	2274.8
42.5°	8597.2	6967.6	2984.7	2331.7	2284.6	2261.1	2249.3	2227.7	2225.8	2223.8	2221.9
45°	8752.1	7061.7	2721.9	2265.0	2241.5	2219.9	2194.4	2174.8	2178.7	2182.6	2182.6
47.5°	8926.7	7144.1	2529.7	2202.3	2188.5	2167.0	2135.6	2121.9	2135.6	2149.3	2149.3
50°	9138.5	7259.8	2372.9	2139.5	2133.6	2108.1	2080.7	2074.8	2090.5	2110.1	2110.1
52.5°	9293.4	7359.8	2261.1	2076.7	2076.7	2043.4	2019.9	2017.9	2035.6	2055.2	2057.1
55°	9583.6	7593.2	2221.9	2004.2	1996.3	1970.8	1953.2	1939.5	1961.0	1978.7	1978.7
57.5°	9911.1	7903.0	2231.7	1900.3	1890.4	1882.6	1868.9	1853.2	1859.1	1878.7	1880.6
60°	9216.9	7302.9	2123.8	1796.3	1790.4	1786.5	1768.9	1741.4	1749.3	1764.9	1766.9
62.5°	6438.1	4853.6	1717.9	1666.9	1686.5	1684.5	1661.0	1629.6	1631.6	1653.2	1653.2
65°	3341.6	2625.8	1508.0	1549.2	1578.6	1566.9	1527.7	1500.2	1496.3	1523.7	1517.8
67.5°	1441.4	1433.5	1372.7	1425.7	1457.1	1431.6	1390.4	1345.3	1349.2	1359.0	1351.2
70°	1160.9	1196.2	1221.7	1278.6	1304.1	1257.0	1211.9	1186.4	1164.9	1162.9	1149.2
72.5°	927.6	976.6	1033.5	1092.3	1100.1	1053.1	996.2	972.7	939.3	937.4	923.7
75°	698.1	739.3	784.4	831.5	831.5	786.4	749.1	737.4	698.1	686.4	674.6
77.5°	476.5	502.0	537.3	549.1	560.9	543.2	505.9	486.3	441.2	429.5	413.8
80°	300.0	317.7	339.3	347.1	358.9	337.3	307.9	286.3	254.9	245.1	237.3
82.5°	180.4	192.2	205.9	209.8	219.6	203.9	176.5	160.8	143.2	135.3	129.4
85°	92.2	98.1	105.9	107.9	105.9	90.2	80.4	72.6	60.8	58.8	54.9
87.5°	23.5	27.5	29.4	27.5	25.5	19.6	13.7	9.8	3.9	3.9	2.0
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)