

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: P636849

Luminaire Tested: GWS-SA4B-750-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14816.1 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

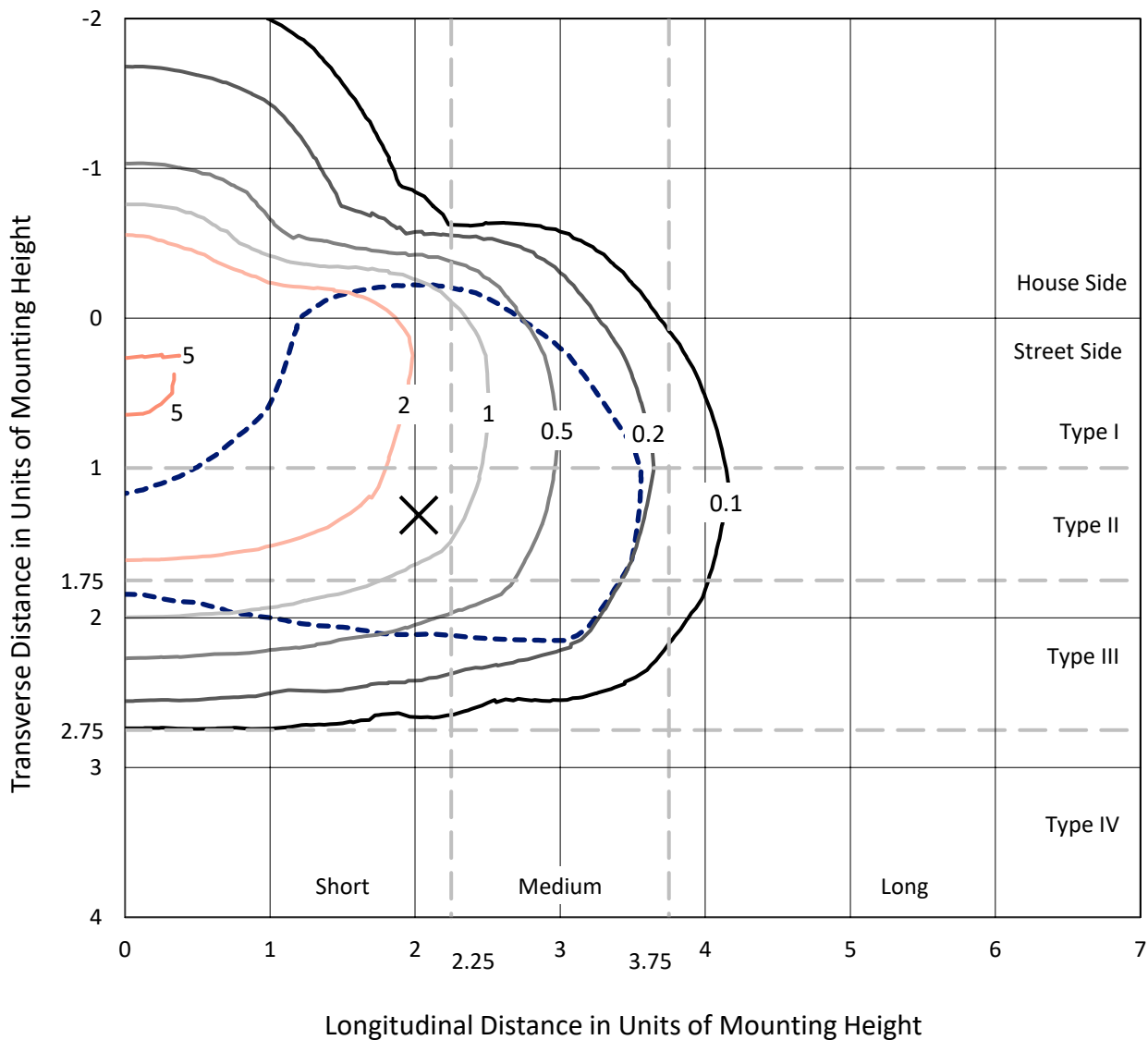
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

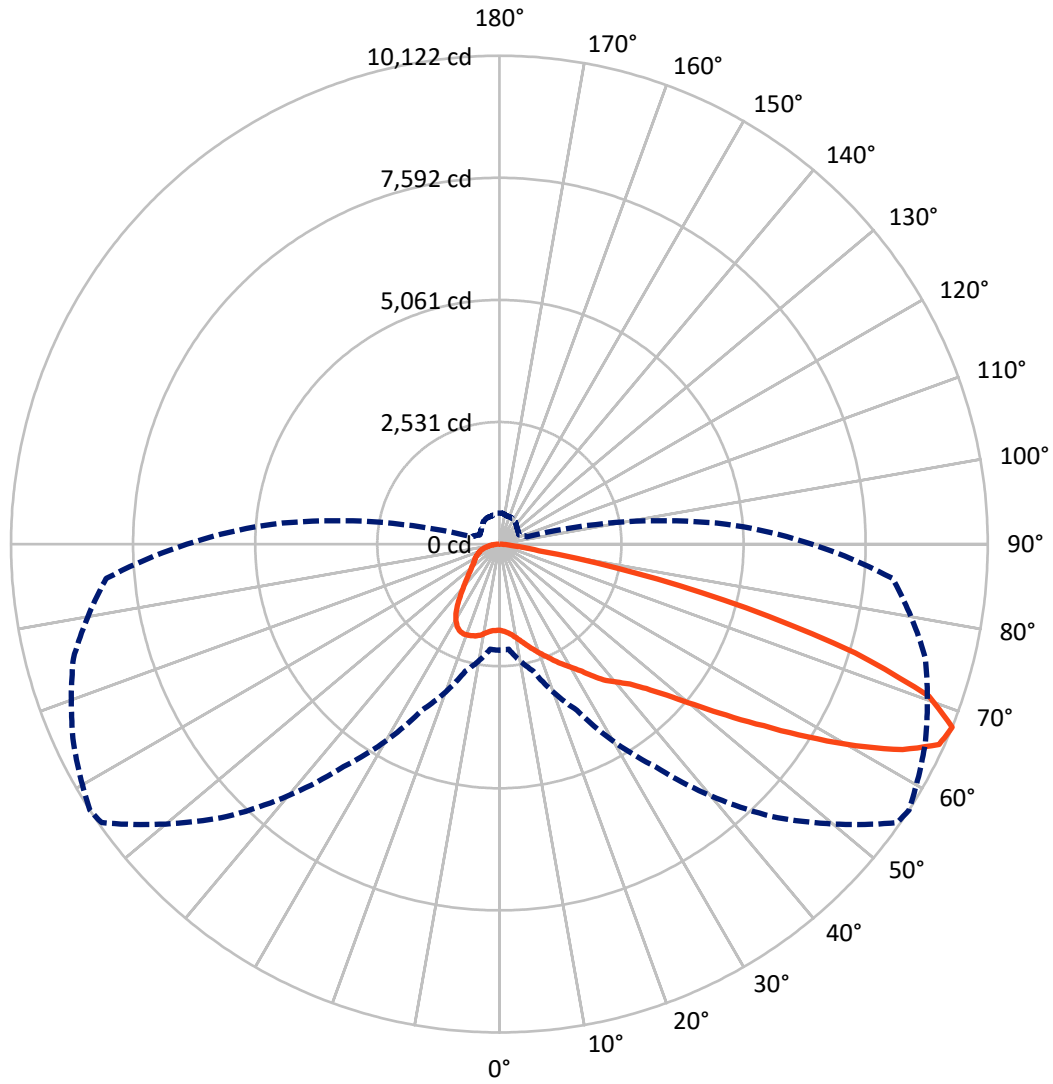
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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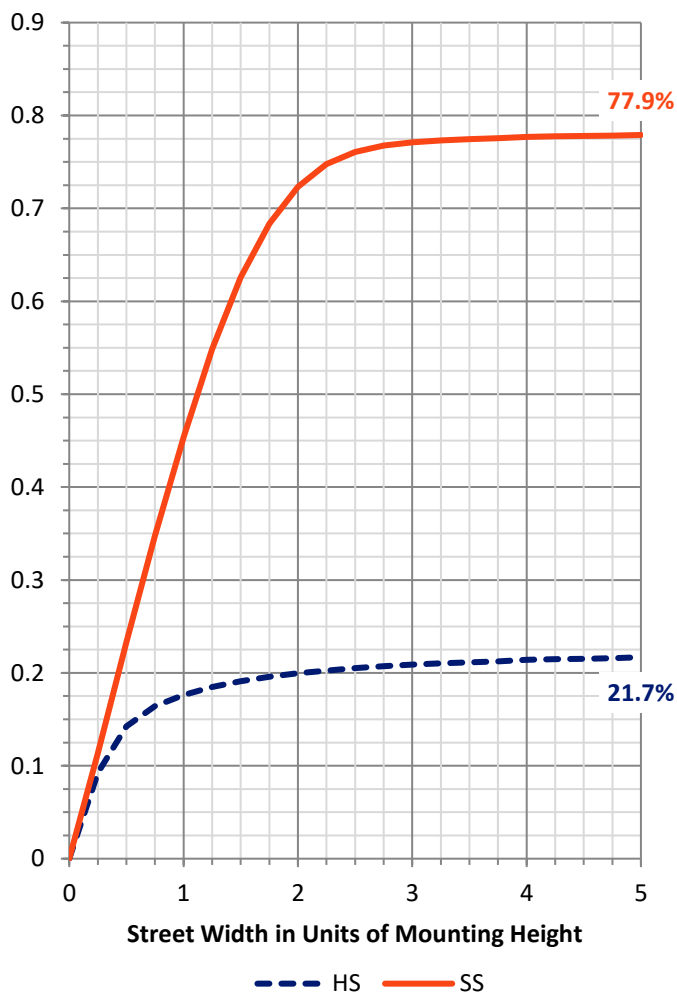
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3257.5	0.0	3257.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11558.6	0.0	11558.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	14816.1	0.0	14816.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	1.2
10°-20°	586.2	4.0
20°-30°	1045.0	7.1
30°-40°	1519.3	10.3
40°-50°	2198.9	14.8
50°-60°	3441.3	23.2
60°-70°	4014.4	27.1
70°-80°	1675.8	11.3
80°-90°	158.1	1.1
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°	14816.1	100.0
0°-180°	14816.1	100.0

Coefficient of Utilization



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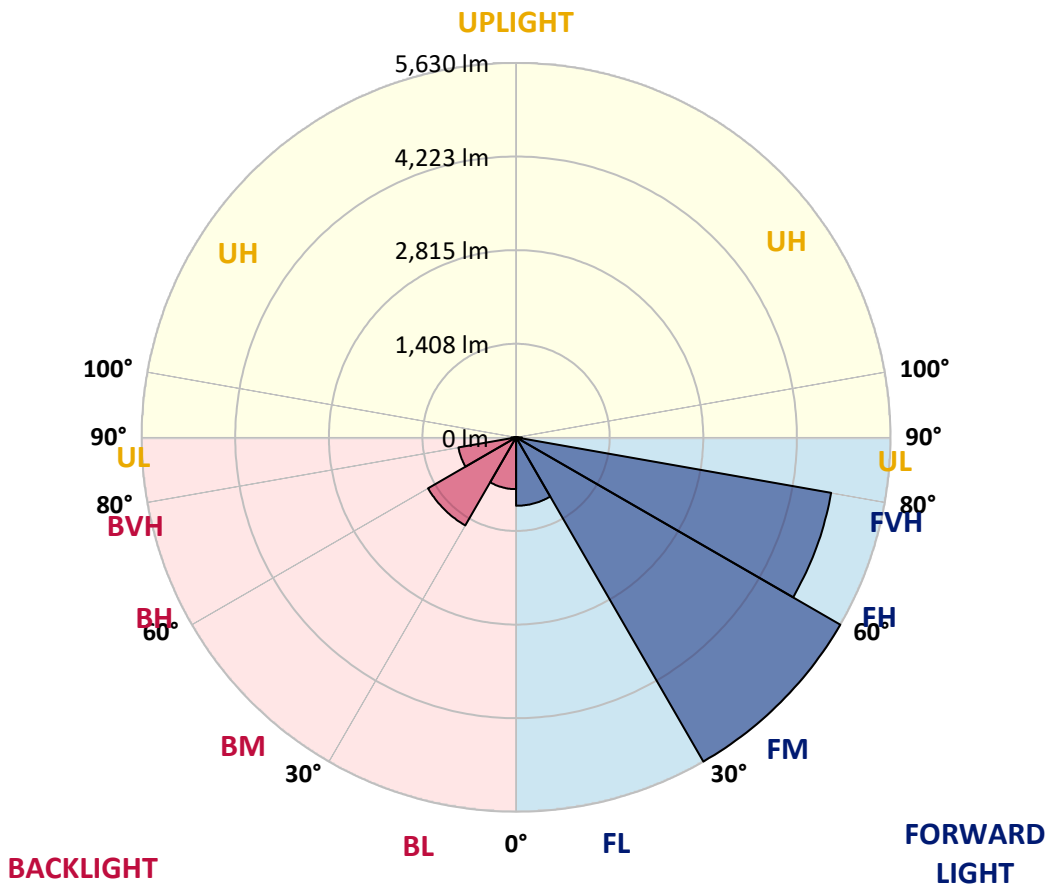
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.1	6.9			
FM (30°-60°)	5630.3	38.0			
FH (60°-80°)	4811.0	32.5			G2/5000
FVH (80°-90°)	88.1	0.6			G1/100
BL (0°-30°)	779.1	5.3	B2/1000		
BM (30°-60°)	1529.2	10.3	B2/2500		
BH (60°-80°)	879.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	70.0	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2
2.5°	1810.7	1808.6	1807.5	1813.9	1811.8	1810.7	1810.7	1809.7	1807.5	1799.0	1787.4
5°	1860.6	1856.4	1852.1	1857.4	1853.2	1848.9	1847.9	1845.7	1838.3	1825.6	1807.5
7.5°	1912.6	1908.4	1909.4	1912.6	1909.4	1907.3	1904.1	1902.0	1890.3	1870.1	1845.7
10°	1985.8	1985.8	1988.0	1991.1	1992.2	1989.0	1982.7	1979.5	1965.7	1940.2	1906.2
12.5°	2092.0	2089.9	2089.9	2087.7	2090.9	2087.7	2081.4	2076.1	2059.1	2026.2	1977.3
15°	2232.1	2223.6	2216.2	2202.4	2198.1	2186.4	2188.6	2185.4	2169.5	2124.9	2063.3
17.5°	2381.7	2380.7	2369.0	2341.4	2313.8	2294.7	2298.9	2297.9	2289.4	2228.9	2150.4
20°	2513.3	2518.7	2508.0	2486.8	2449.7	2413.6	2411.5	2416.8	2406.1	2345.6	2236.3
22.5°	2660.9	2656.6	2646.0	2618.4	2590.8	2552.6	2539.9	2535.6	2531.4	2462.4	2324.4
25°	2801.0	2813.7	2799.9	2774.4	2732.0	2690.6	2680.0	2684.2	2672.6	2581.3	2418.9
27.5°	2978.2	2983.5	2975.0	2940.0	2903.9	2845.6	2825.4	2825.4	2821.1	2692.7	2493.2
30°	3167.2	3182.0	3167.2	3138.5	3101.3	3017.5	2974.0	2969.7	2957.0	2807.3	2580.2
32.5°	3357.1	3367.8	3357.1	3329.5	3287.1	3213.9	3151.2	3141.7	3124.7	2932.6	2669.4
35°	3525.9	3535.5	3533.3	3539.7	3504.7	3412.3	3374.1	3369.9	3325.3	3096.0	2790.4
37.5°	3710.6	3722.3	3706.3	3719.1	3705.3	3618.2	3606.6	3585.3	3521.7	3249.9	2917.7
40°	3920.7	3931.3	3905.9	3911.2	3895.3	3846.4	3787.0	3758.3	3663.9	3416.6	3118.3
42.5°	4145.7	4170.2	4181.8	4172.3	4135.1	4107.5	4003.5	3967.4	3888.9	3716.9	3448.4
45°	4471.6	4507.7	4524.7	4500.2	4484.3	4445.1	4317.7	4274.2	4232.8	4140.4	3909.1
47.5°	4822.9	4855.8	4909.9	4920.6	4933.3	4903.6	4724.2	4681.7	4689.2	4678.6	4475.8
50°	5103.1	5130.7	5252.8	5383.3	5491.6	5500.1	5270.8	5225.2	5265.5	5299.5	5158.3
52.5°	5306.9	5331.3	5492.6	5762.2	6007.4	6188.9	5941.6	5889.6	5922.5	5998.9	5934.2
55°	5472.5	5506.4	5675.2	6089.1	6584.8	6871.4	6713.2	6647.4	6633.6	6728.1	6765.2
57.5°	5559.5	5570.1	5806.8	6344.9	7008.3	7541.1	7610.1	7535.8	7404.2	7456.2	7649.4
60°	5361.0	5379.1	5702.8	6410.7	7342.6	8205.5	8551.5	8490.0	8209.8	8238.4	8451.8
62.5°	4812.3	4837.8	5227.3	6097.6	7370.2	8649.2	9420.8	9381.5	9005.8	8850.8	8914.5
65°	3860.2	3868.7	4272.0	5322.8	6821.5	8704.4	10026.8	10017.3	9562.0	9199.0	8926.2
67.5°	2201.3	2186.4	2725.6	3796.6	5629.6	7986.9	10066.1	10122.4	9742.4	9141.7	8183.2
70°	954.2	956.3	1204.7	1873.3	3643.7	6455.3	9349.7	9446.3	9220.2	8187.5	6510.5
72.5°	441.5	447.9	555.1	810.9	1556.0	4004.6	7623.9	7710.9	7516.7	6553.0	4736.9
75°	312.0	317.4	370.4	464.9	715.4	1560.2	5099.9	5282.5	5376.9	4901.4	3121.5
77.5°	236.7	244.1	270.7	322.7	441.5	553.0	2440.1	2875.3	3425.1	3049.3	1608.0
80°	150.7	150.7	179.4	215.5	269.6	287.6	704.8	835.3	1675.9	1256.7	631.5
82.5°	101.9	105.1	122.1	136.9	155.0	163.5	302.5	322.7	484.0	427.7	260.0
85°	54.1	56.3	63.7	62.6	74.3	64.7	127.4	126.3	177.3	194.2	98.7
87.5°	0.0	0.0	1.1	1.1	2.1	3.2	13.8	14.9	37.1	59.4	32.9
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°	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2	1785.2
2.5°	1793.7	1781.0	1787.4	1785.2	1791.6	1791.6	1779.9	1776.7	1777.8	1765.1	1760.8
5°	1809.7	1794.8	1798.0	1793.7	1800.1	1805.4	1800.1	1800.1	1806.5	1796.9	1791.6
7.5°	1845.7	1828.8	1828.8	1823.4	1830.9	1835.1	1830.9	1837.2	1848.9	1839.4	1834.1
10°	1903.1	1882.9	1883.9	1877.6	1880.8	1878.6	1861.7	1856.4	1859.5	1851.0	1846.8
12.5°	1977.3	1949.8	1949.8	1937.0	1929.6	1907.3	1872.3	1859.5	1861.7	1854.2	1851.0
15°	2048.5	2023.0	2017.7	1992.2	1958.2	1916.9	1885.0	1876.5	1878.6	1871.2	1865.9
17.5°	2132.3	2099.4	2080.3	2033.6	1971.0	1928.5	1896.7	1876.5	1859.5	1842.6	1838.3
20°	2209.8	2168.4	2133.4	2061.2	1984.8	1926.4	1867.0	1817.1	1775.7	1753.4	1748.1
22.5°	2289.4	2236.3	2174.8	2080.3	1983.7	1888.2	1778.9	1703.5	1642.0	1609.1	1615.4
25°	2364.8	2297.9	2214.0	2098.3	1949.8	1803.3	1654.7	1542.2	1472.1	1446.7	1439.2
27.5°	2427.4	2344.6	2250.1	2089.9	1879.7	1681.2	1484.9	1359.6	1291.7	1263.0	1255.6
30°	2497.4	2404.0	2302.1	2050.6	1769.3	1510.3	1292.8	1190.9	1142.0	1114.4	1115.5
32.5°	2578.1	2480.4	2375.4	1975.2	1628.2	1325.7	1134.6	1064.6	1025.3	997.7	993.5
35°	2686.3	2589.8	2424.2	1861.7	1448.8	1155.8	1026.4	969.0	920.2	884.1	876.7
37.5°	2820.1	2754.3	2429.5	1709.9	1256.7	1039.1	948.9	887.3	827.9	780.1	774.8
40°	3049.3	2974.0	2386.0	1519.9	1093.2	963.7	884.1	813.0	744.0	691.0	683.5
42.5°	3376.2	3221.3	2292.6	1305.5	970.1	904.3	822.6	732.4	662.3	625.2	619.8
45°	3792.3	3497.2	2152.5	1103.8	878.8	845.9	757.8	663.4	626.2	599.7	594.4
47.5°	4301.8	3818.8	1991.1	946.7	807.7	792.8	692.0	640.0	607.1	584.8	579.5
50°	4911.0	4228.5	1858.5	823.6	744.0	731.3	670.8	626.2	599.7	581.6	577.4
52.5°	5606.2	4683.9	1793.7	735.5	688.8	676.1	663.4	623.0	600.7	586.9	581.6
55°	6327.9	5163.6	1733.2	667.6	642.1	649.6	664.4	633.6	616.7	598.6	593.3
57.5°	7025.3	5613.6	1584.6	614.5	608.2	636.8	669.7	644.3	624.1	606.0	599.7
60°	7506.1	5859.9	1333.1	572.1	582.7	620.9	655.9	628.3	602.9	595.4	592.2
62.5°	7635.6	5830.2	1034.8	528.6	551.9	585.9	619.8	601.8	575.3	586.9	588.0
65°	7333.1	5511.7	776.9	486.1	511.6	540.2	582.7	575.3	565.7	597.6	598.6
67.5°	6476.5	4729.5	592.2	449.0	470.2	505.2	571.0	601.8	603.9	644.3	640.0
70°	4900.4	3533.3	463.8	413.9	438.3	505.2	608.2	622.0	596.5	633.6	625.2
72.5°	3387.9	2331.8	394.8	383.2	399.1	481.9	607.1	607.1	579.5	579.5	563.6
75°	2104.7	1371.3	343.9	343.9	343.9	421.4	590.1	559.3	510.5	488.2	475.5
77.5°	1039.1	666.5	288.7	299.3	287.6	352.4	481.9	457.5	427.7	404.4	395.9
80°	443.7	333.3	233.5	245.2	231.4	265.3	382.1	376.8	348.1	317.4	307.8
82.5°	203.8	171.9	186.8	192.1	168.8	199.5	279.1	279.1	263.2	220.8	204.8
85°	87.0	91.3	129.5	129.5	106.1	112.5	149.7	142.2	127.4	104.0	95.5
87.5°	29.7	44.6	65.8	57.3	22.3	9.6	5.3	2.1	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)