

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: P636794

Luminaire Tested: GWS-SA4B-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636794
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-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14484.2 lumens
Efficiency: N/A
Efficacy: 153.4 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

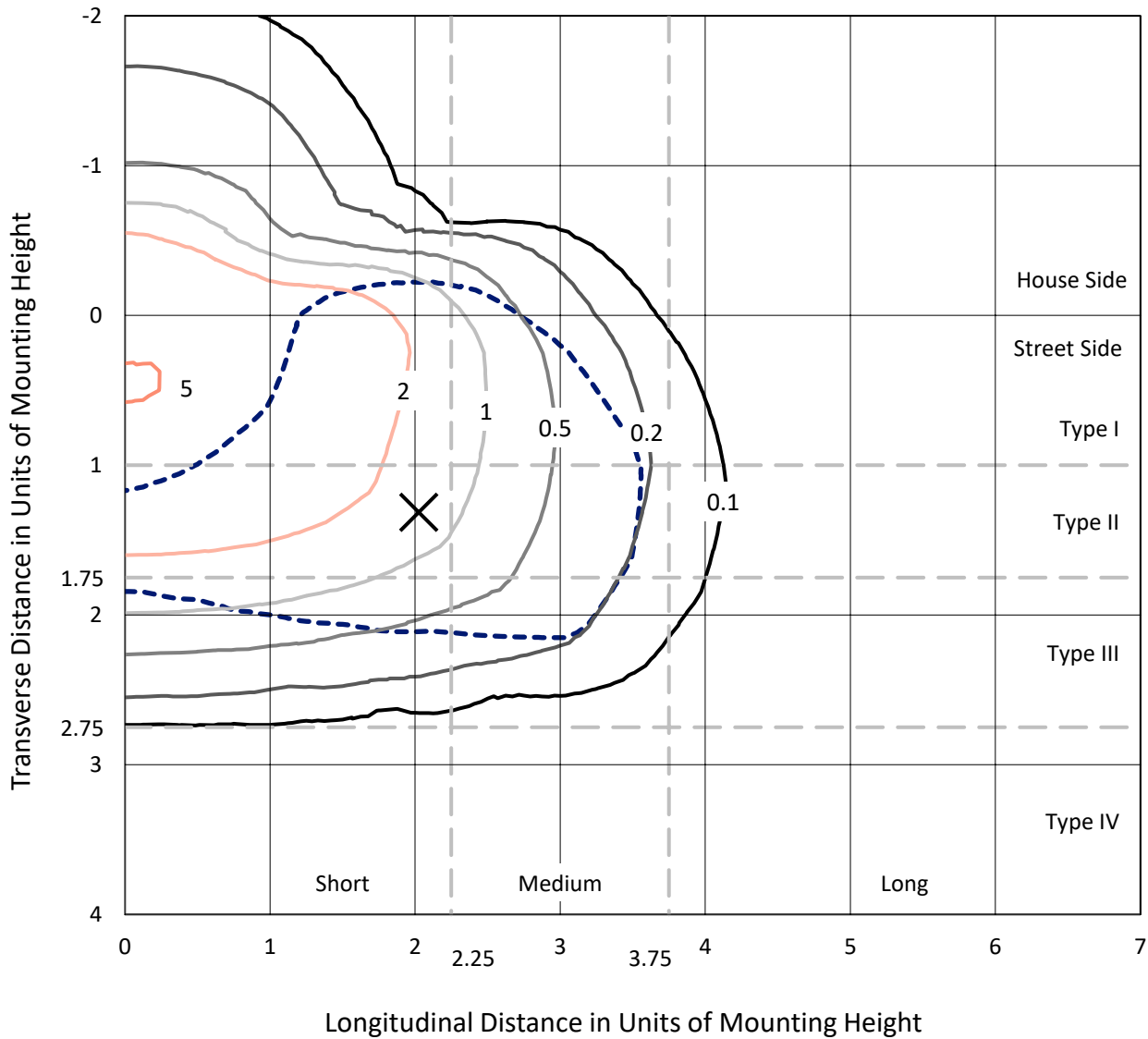


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Iso-Footcandle Lines of Horizontal Illumination

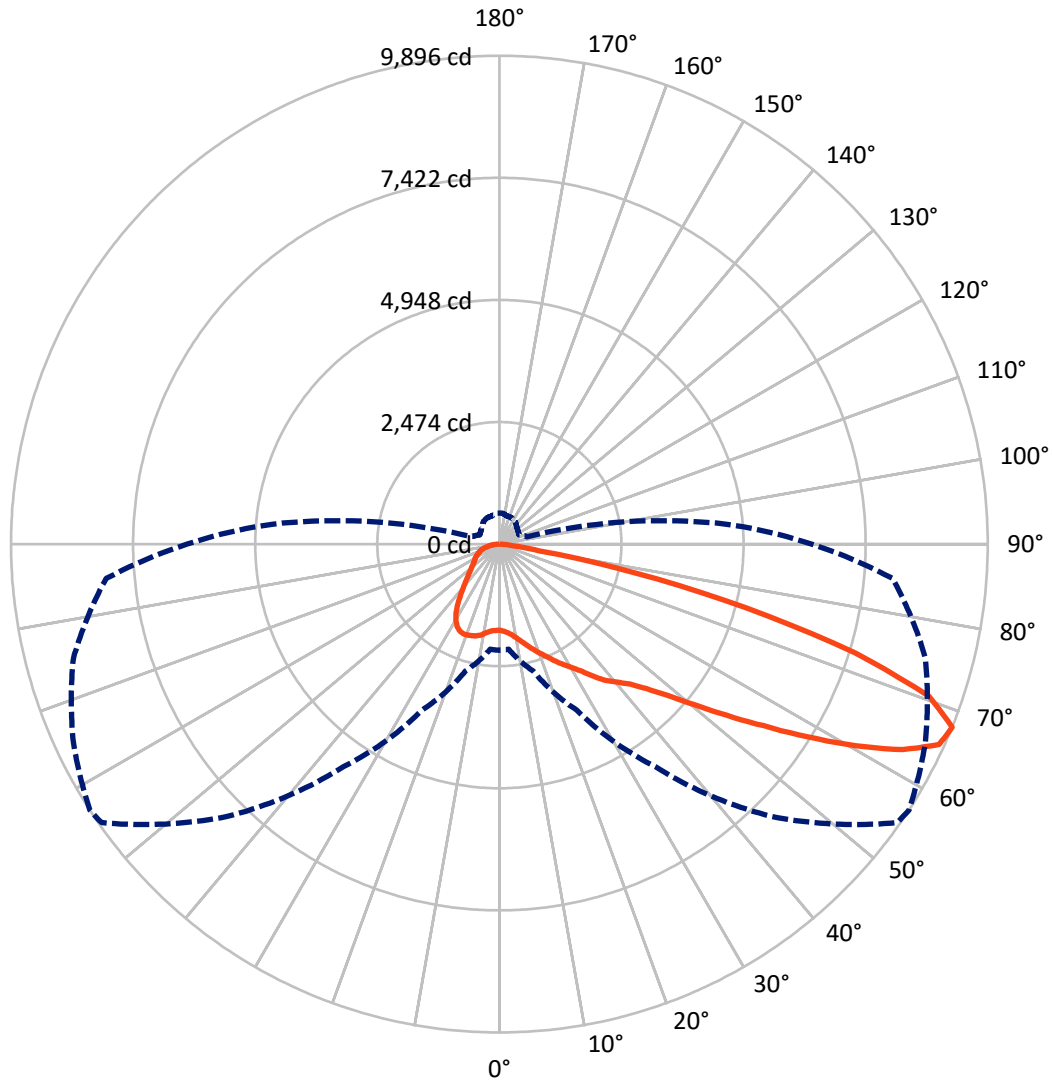
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	3184.5	0.0	3184.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	11299.7	0.0	11299.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	14484.2	0.0	14484.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.2
10°-20°	573.0	4.0
20°-30°	1021.6	7.1
30°-40°	1485.3	10.3
40°-50°	2149.7	14.8
50°-60°	3364.2	23.2
60°-70°	3924.5	27.1
70°-80°	1638.3	11.3
80°-90°	154.6	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°	14484.2	100.0
0°-180°	14484.2	100.0

Coefficient of Utilization



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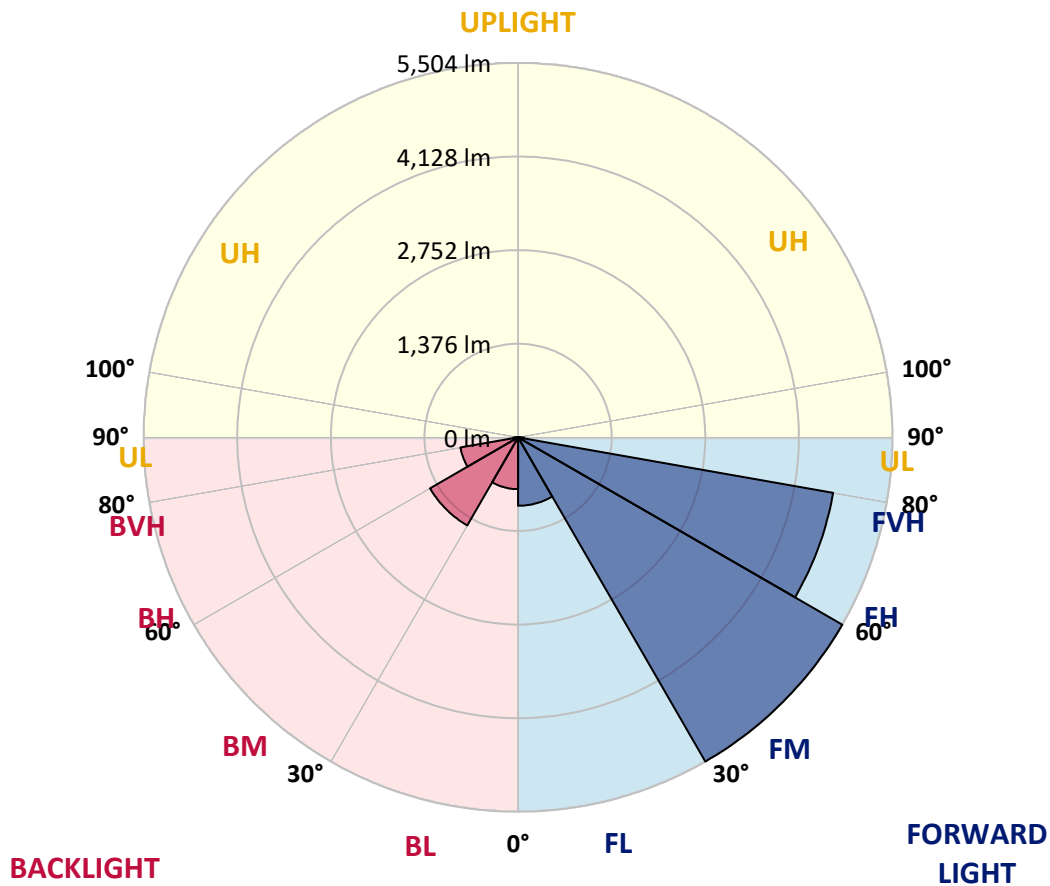
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.1	6.9			
FM (30°-60°)	5504.2	38.0			
FH (60°-80°)	4703.3	32.5			G2/5000
FVH (80°-90°)	86.1	0.6			G1/100
BL (0°-30°)	761.6	5.3	B2/1000		
BM (30°-60°)	1494.9	10.3	B2/2500		
BH (60°-80°)	859.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	68.5	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°	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2
2.5°	1770.1	1768.1	1767.0	1773.3	1771.2	1770.1	1770.1	1769.1	1767.0	1758.7	1747.3
5°	1818.9	1814.8	1810.6	1815.8	1811.7	1807.5	1806.5	1804.4	1797.1	1784.7	1767.0
7.5°	1869.8	1865.6	1866.6	1869.8	1866.6	1864.6	1861.5	1859.4	1848.0	1828.3	1804.4
10°	1941.4	1941.4	1943.4	1946.5	1947.6	1944.5	1938.2	1935.1	1921.6	1896.7	1863.5
12.5°	2045.1	2043.0	2043.0	2041.0	2044.1	2041.0	2034.7	2029.6	2012.9	1980.8	1933.1
15°	2182.1	2173.8	2166.5	2153.0	2148.9	2137.5	2139.5	2136.4	2120.9	2077.3	2017.1
17.5°	2328.4	2327.3	2315.9	2289.0	2262.0	2243.3	2247.4	2246.4	2238.1	2179.0	2102.2
20°	2457.0	2462.2	2451.9	2431.1	2394.8	2359.5	2357.4	2362.6	2352.2	2293.1	2186.2
22.5°	2601.3	2597.1	2586.7	2559.8	2532.8	2495.4	2483.0	2478.8	2474.7	2407.2	2272.3
25°	2738.2	2750.7	2737.2	2712.3	2670.8	2630.3	2619.9	2624.1	2612.7	2523.4	2364.7
27.5°	2911.5	2916.7	2908.4	2874.2	2838.9	2781.8	2762.1	2762.1	2757.9	2632.4	2437.3
30°	3096.2	3110.7	3096.2	3068.2	3031.9	2949.9	2907.4	2903.2	2890.8	2744.5	2522.4
32.5°	3281.9	3292.3	3281.9	3255.0	3213.5	3141.9	3080.6	3071.3	3054.7	2866.9	2609.6
35°	3446.9	3456.3	3454.2	3460.4	3426.2	3335.9	3298.5	3294.4	3250.8	3026.7	2727.9
37.5°	3627.5	3638.9	3623.3	3635.8	3622.3	3537.2	3525.8	3505.0	3442.8	3177.1	2852.4
40°	3832.9	3843.3	3818.4	3823.6	3808.0	3760.3	3702.2	3674.2	3581.8	3340.0	3048.5
42.5°	4052.9	4076.7	4088.2	4078.8	4042.5	4015.5	3913.8	3878.6	3801.8	3633.7	3371.2
45°	4371.4	4406.7	4423.3	4399.4	4383.9	4345.5	4221.0	4178.4	4138.0	4047.7	3821.5
47.5°	4714.9	4747.0	4799.9	4810.3	4822.8	4793.7	4618.4	4576.9	4584.1	4573.8	4375.6
50°	4988.8	5015.8	5135.1	5262.7	5368.6	5376.9	5152.7	5108.1	5147.5	5180.7	5042.7
52.5°	5188.0	5211.9	5369.6	5633.1	5872.8	6050.3	5808.5	5757.7	5789.8	5864.5	5801.2
55°	5349.9	5383.1	5548.1	5952.7	6437.3	6717.4	6562.8	6498.5	6485.0	6577.4	6613.7
57.5°	5435.0	5445.3	5676.7	6202.8	6851.3	7372.2	7439.6	7367.0	7238.3	7289.2	7478.0
60°	5240.9	5258.6	5575.0	6267.1	7178.1	8021.7	8360.0	8299.8	8025.9	8053.9	8262.4
62.5°	4704.5	4729.4	5110.2	5961.0	7205.1	8455.4	9209.8	9171.4	8804.1	8652.6	8714.8
65°	3773.8	3782.1	4176.4	5203.6	6668.7	8509.4	9802.2	9792.9	9347.8	8992.9	8726.2
67.5°	2152.0	2137.5	2664.6	3711.5	5503.4	7808.0	9840.6	9895.6	9524.2	8936.9	7999.9
70°	932.8	934.9	1177.7	1831.4	3562.1	6310.7	9140.2	9234.7	9013.7	8004.1	6364.7
72.5°	431.6	437.9	542.7	792.7	1521.1	3914.9	7453.1	7538.2	7348.3	6406.2	4630.8
75°	305.1	310.2	362.1	454.5	699.3	1525.3	4985.7	5164.1	5256.5	4791.6	3051.6
77.5°	231.4	238.6	264.6	315.4	431.6	540.6	2385.4	2810.9	3348.3	2981.0	1572.0
80°	147.3	147.3	175.4	210.6	263.6	281.2	689.0	816.6	1638.4	1228.5	617.4
82.5°	99.6	102.7	119.3	133.9	151.5	159.8	295.7	315.4	473.1	418.2	254.2
85°	52.9	55.0	62.3	61.2	72.6	63.3	124.5	123.5	173.3	189.9	96.5
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	13.5	14.5	36.3	58.1	32.2
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°	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2	1745.2
2.5°	1753.5	1741.1	1747.3	1745.2	1751.5	1751.5	1740.1	1736.9	1738.0	1725.5	1721.4
5°	1769.1	1754.6	1757.7	1753.5	1759.8	1765.0	1759.8	1759.8	1766.0	1756.7	1751.5
7.5°	1804.4	1787.8	1787.8	1782.6	1789.9	1794.0	1789.9	1796.1	1807.5	1798.2	1793.0
10°	1860.4	1840.7	1841.7	1835.5	1838.6	1836.6	1820.0	1814.8	1817.9	1809.6	1805.4
12.5°	1933.1	1906.1	1906.1	1893.6	1886.4	1864.6	1830.3	1817.9	1820.0	1812.7	1809.6
15°	2002.6	1977.7	1972.5	1947.6	1914.4	1873.9	1842.8	1834.5	1836.6	1829.3	1824.1
17.5°	2084.5	2052.4	2033.7	1988.0	1926.8	1885.3	1854.2	1834.5	1817.9	1801.3	1797.1
20°	2160.3	2119.8	2085.6	2015.0	1940.3	1883.2	1825.1	1776.4	1735.9	1714.1	1708.9
22.5°	2238.1	2186.2	2126.0	2033.7	1939.3	1845.9	1739.0	1665.4	1605.2	1573.0	1579.2
25°	2311.8	2246.4	2164.4	2051.3	1906.1	1762.9	1617.6	1507.6	1439.2	1414.3	1407.0
27.5°	2373.0	2292.1	2199.7	2043.0	1837.6	1643.6	1451.6	1329.2	1262.8	1234.7	1227.5
30°	2441.5	2350.2	2250.6	2004.6	1729.7	1476.5	1263.8	1164.2	1116.5	1089.5	1090.5
32.5°	2520.3	2424.9	2322.2	1931.0	1591.7	1296.0	1109.2	1040.7	1002.3	975.3	971.2
35°	2626.2	2531.8	2369.9	1820.0	1416.3	1129.9	1003.4	947.3	899.6	864.3	857.1
37.5°	2756.9	2692.6	2375.1	1671.6	1228.5	1015.8	927.6	867.4	809.3	762.6	757.4
40°	2981.0	2907.4	2332.5	1485.8	1068.7	942.1	864.3	794.8	727.4	675.5	668.2
42.5°	3300.6	3149.1	2241.2	1276.3	948.4	884.0	804.1	715.9	647.5	611.1	606.0
45°	3707.4	3418.9	2104.3	1079.1	859.1	827.0	740.8	648.5	612.2	586.2	581.1
47.5°	4205.4	3733.3	1946.5	925.5	789.6	775.1	676.5	625.7	593.5	571.7	566.5
50°	4801.0	4133.8	1816.8	805.2	727.4	714.9	655.8	612.2	586.2	568.6	564.5
52.5°	5480.6	4578.9	1753.5	719.1	673.4	661.0	648.5	609.1	587.3	573.8	568.6
55°	6186.2	5047.9	1694.4	652.7	627.7	635.0	649.5	619.4	602.8	585.2	580.0
57.5°	6867.9	5487.9	1549.1	600.8	594.5	622.6	654.7	629.8	610.1	592.5	586.2
60°	7337.9	5728.6	1303.2	559.3	569.6	607.0	641.2	614.3	589.4	582.1	579.0
62.5°	7464.5	5699.6	1011.7	516.7	539.6	572.8	606.0	588.3	562.4	573.8	574.8
65°	7168.8	5388.3	759.5	475.2	500.1	528.1	569.6	562.4	553.0	584.2	585.2
67.5°	6331.5	4623.6	579.0	438.9	459.7	493.9	558.2	588.3	590.4	629.8	625.7
70°	4790.6	3454.2	453.4	404.7	428.5	493.9	594.5	608.0	583.1	619.4	611.1
72.5°	3312.0	2279.6	386.0	374.6	390.1	471.1	593.5	593.5	566.5	566.5	551.0
75°	2057.6	1340.6	336.2	336.2	336.2	411.9	576.9	546.8	499.1	477.3	464.8
77.5°	1015.8	651.6	282.2	292.6	281.2	344.5	471.1	447.2	418.2	395.3	387.0
80°	433.7	325.8	228.3	239.7	226.2	259.4	373.5	368.3	340.3	310.2	300.9
82.5°	199.2	168.1	182.6	187.8	165.0	195.1	272.9	272.9	257.3	215.8	200.3
85°	85.1	89.2	126.6	126.6	103.8	110.0	146.3	139.0	124.5	101.7	93.4
87.5°	29.1	43.6	64.3	56.0	21.8	9.3	5.2	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)