

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: P635223

Luminaire Tested: GWS-SA3D-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17867.7 lumens
Efficiency: N/A
Efficacy: 147.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

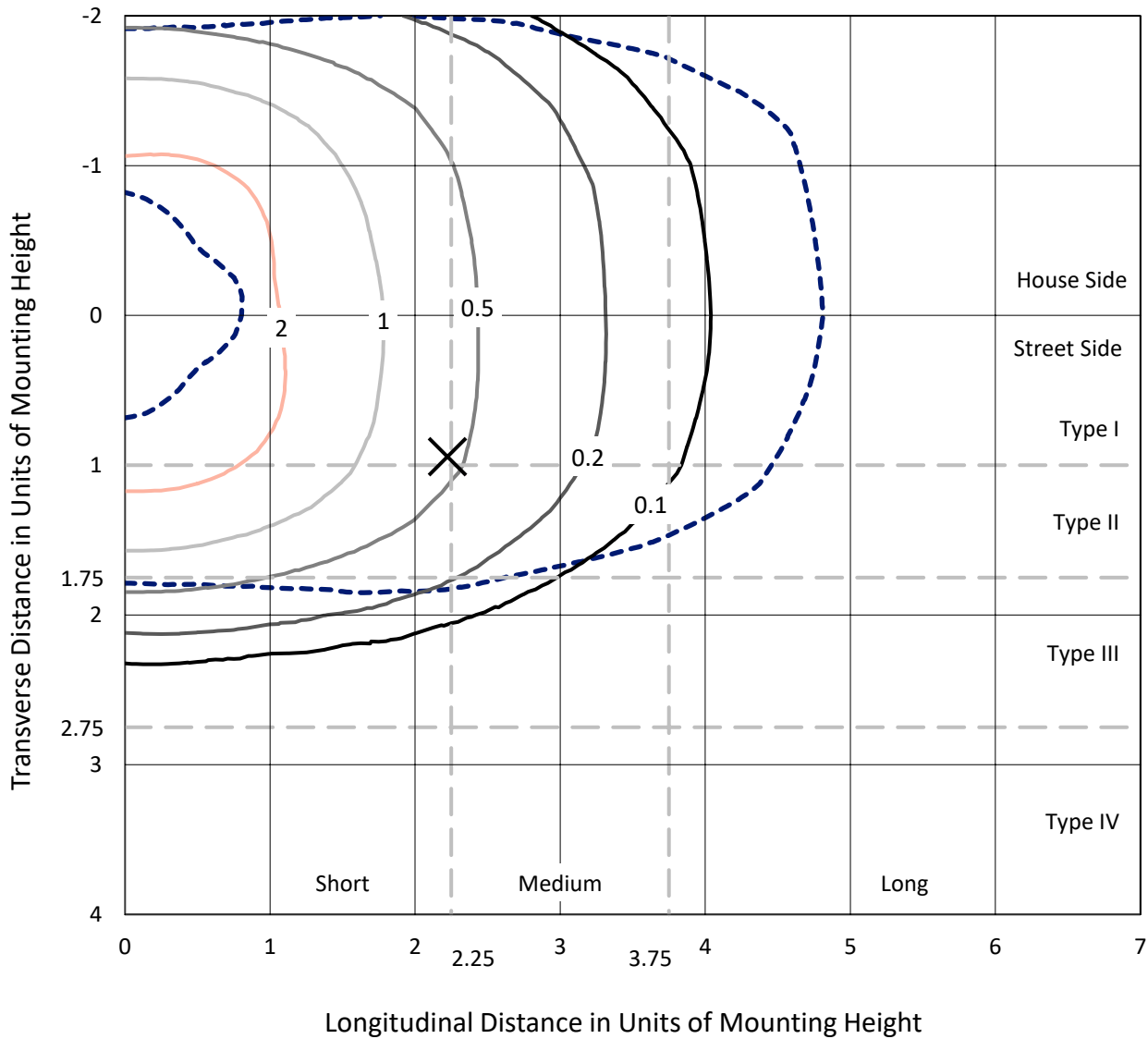
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

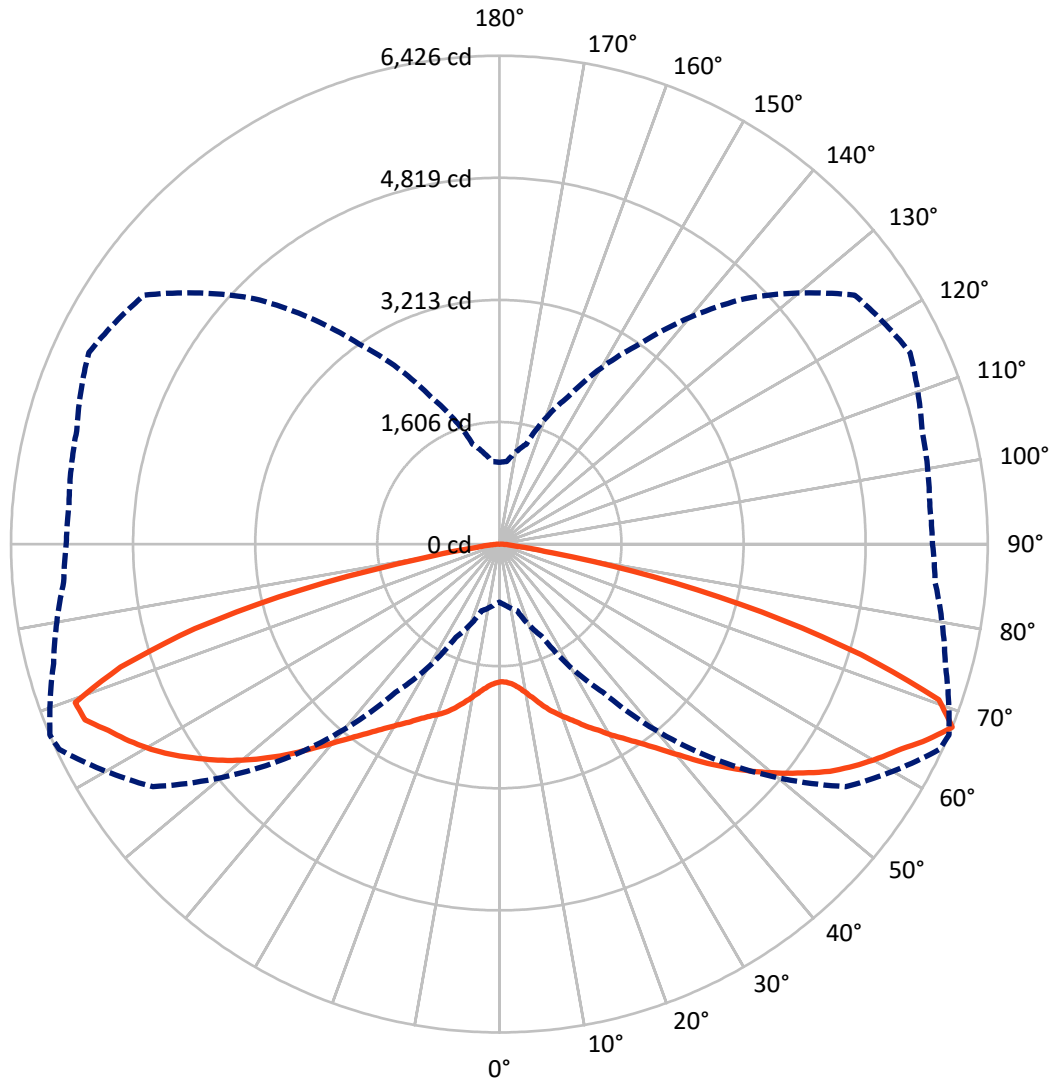
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8835.3	0.0	8835.3
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9032.4	0.0	9032.4
	% Fixture	50.6	0.0	50.6
Total	Lumens	17867.7	0.0	17867.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	1.0
10°-20°	599.7	3.4
20°-30°	1176.6	6.6
30°-40°	2004.5	11.2
40°-50°	3218.8	18.0
50°-60°	4373.7	24.5
60°-70°	4183.7	23.4
70°-80°	1989.1	11.1
80°-90°	144.1	0.8
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°	17867.7	100.0
0°-180°	17867.7	100.0

Coefficient of Utilization



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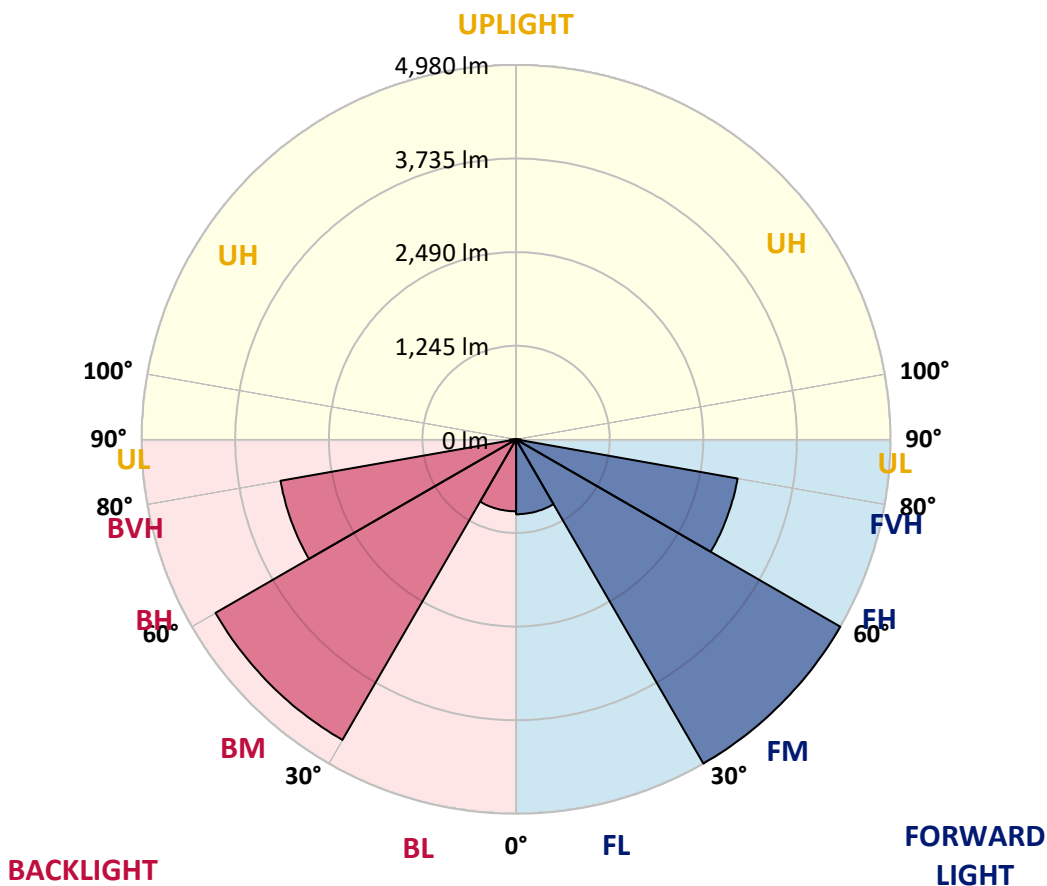
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.3	5.6			
FM (30°-60°)	4979.9	27.9			
FH (60°-80°)	2991.5	16.7			G2/5000
FVH (80°-90°)	64.8	0.4			G1/100
BL (0°-30°)	957.5	5.4	B2/1000		
BM (30°-60°)	4617.1	25.8	B3/5000		
BH (60°-80°)	3181.3	17.8	B4/5000		G4/5000
BVH (80°-90°)	79.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1771.9	1774.4	1778.1	1785.6	1793.0	1804.2	1815.4	1814.2	1819.2	1822.9	1826.6
5°	1761.9	1764.4	1770.6	1780.6	1791.8	1810.4	1834.1	1844.0	1851.5	1865.2	1877.6
7.5°	1783.1	1788.1	1796.8	1810.4	1827.9	1851.5	1883.9	1901.3	1912.5	1937.4	1958.5
10°	1811.7	1817.9	1835.3	1861.5	1887.6	1923.7	1964.7	1990.9	1998.3	2030.7	2070.5
12.5°	1839.1	1846.5	1875.2	1922.4	1969.7	2018.2	2066.8	2099.1	2101.6	2145.2	2190.0
15°	1882.6	1888.8	1927.4	1988.4	2060.6	2127.7	2187.5	2209.9	2219.8	2250.9	2306.9
17.5°	1978.4	1985.9	2035.7	2101.6	2177.5	2248.4	2308.2	2326.8	2326.8	2353.0	2399.0
20°	2081.7	2089.2	2155.1	2239.7	2331.8	2404.0	2450.0	2432.6	2426.4	2433.8	2466.2
22.5°	2197.4	2211.1	2274.6	2372.9	2486.1	2574.4	2598.1	2545.8	2528.4	2511.0	2518.5
25°	2345.5	2361.7	2423.9	2528.4	2639.1	2732.5	2746.2	2665.3	2655.3	2594.4	2572.0
27.5°	2516.0	2528.4	2605.6	2708.8	2812.1	2890.5	2905.4	2805.9	2772.3	2687.7	2635.4
30°	2736.2	2747.4	2814.6	2916.6	3006.2	3061.0	3079.6	2942.8	2916.6	2787.2	2706.3
32.5°	2976.4	2981.3	3049.8	3148.1	3227.7	3280.0	3253.8	3094.6	3056.0	2910.4	2799.7
35°	3251.3	3251.3	3339.7	3419.3	3482.8	3497.7	3447.9	3266.3	3221.5	3063.5	2925.3
37.5°	3521.4	3528.8	3610.9	3705.5	3761.5	3759.0	3668.2	3469.1	3418.1	3246.4	3093.3
40°	3813.8	3829.9	3912.1	4017.8	4071.3	4063.9	3924.5	3703.0	3650.8	3447.9	3298.6
42.5°	4082.5	4108.7	4204.5	4312.7	4371.2	4366.2	4220.6	3971.8	3920.8	3691.8	3542.5
45°	4296.5	4323.9	4443.4	4593.9	4687.3	4678.5	4531.7	4250.5	4188.3	3948.1	3783.9
47.5°	4484.4	4513.1	4646.2	4805.5	4953.5	4968.5	4834.1	4531.7	4465.8	4223.1	4037.7
50°	4628.8	4642.5	4791.8	4966.0	5137.7	5221.1	5104.1	4814.2	4734.5	4494.4	4285.4
52.5°	4617.6	4636.2	4820.4	5056.8	5287.0	5423.9	5343.0	5080.5	5003.3	4742.0	4537.9
55°	4389.9	4408.5	4627.5	4972.2	5370.4	5572.0	5563.2	5334.3	5278.3	4994.6	4800.5
57.5°	4057.6	4098.7	4316.5	4688.5	5260.9	5690.2	5725.0	5565.7	5507.2	5242.2	5060.5
60°	3462.9	3517.6	3769.0	4251.8	4910.0	5650.3	5898.0	5761.1	5725.0	5472.4	5295.7
62.5°	2516.0	2555.8	2890.5	3523.8	4389.9	5366.6	6043.5	5962.7	5935.3	5679.0	5508.5
65°	1506.8	1597.7	1866.4	2492.3	3541.3	4831.6	5963.9	6226.4	6197.8	5891.7	5690.2
67.5°	762.8	803.8	909.6	1351.3	2381.6	3997.9	5564.5	6390.7	6425.5	6073.4	5754.9
70°	472.8	484.0	513.9	666.9	1189.5	2626.7	4550.4	5962.7	6133.1	6044.8	5586.9
72.5°	379.5	382.0	387.0	415.6	571.1	1228.1	2876.8	4669.8	4977.2	5645.4	5346.7
75°	314.8	316.1	317.3	326.0	355.9	501.5	1399.8	3209.0	3568.6	4798.0	4957.3
77.5°	252.6	246.4	251.3	255.1	262.5	280.0	482.8	1712.1	2076.7	3149.3	3833.7
80°	164.2	161.8	171.7	175.4	182.9	194.1	257.6	581.1	705.5	1146.0	1219.4
82.5°	88.3	83.4	104.5	100.8	104.5	113.2	151.8	212.8	238.9	345.9	292.4
85°	27.4	27.4	28.6	33.6	41.1	39.8	65.9	104.5	115.7	148.1	109.5
87.5°	5.0	5.0	5.0	5.0	5.0	6.2	13.7	21.2	28.6	51.0	38.6
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°	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2	1809.2
2.5°	1834.1	1822.9	1829.1	1832.8	1831.6	1829.1	1816.7	1814.2	1808.0	1798.0	1795.5
5°	1888.8	1876.4	1877.6	1873.9	1861.5	1845.3	1817.9	1804.2	1793.0	1780.6	1779.3
7.5°	1974.7	1961.0	1957.3	1939.9	1905.0	1867.7	1824.1	1799.2	1780.6	1764.4	1761.9
10°	2084.2	2070.5	2058.1	2017.0	1959.8	1910.0	1852.8	1816.7	1789.3	1769.4	1765.7
12.5°	2206.1	2194.9	2163.8	2104.1	2035.7	1977.2	1918.7	1873.9	1834.1	1804.2	1800.5
15°	2341.8	2316.9	2269.6	2192.4	2127.7	2080.5	2009.5	1948.6	1885.1	1845.3	1836.6
17.5°	2436.3	2415.2	2359.2	2284.5	2233.5	2192.4	2109.1	2022.0	1936.1	1877.6	1865.2
20°	2503.5	2481.1	2417.7	2362.9	2346.7	2311.9	2214.8	2114.1	2014.5	1942.3	1926.2
22.5°	2552.0	2528.4	2463.7	2436.3	2458.7	2452.5	2357.9	2243.5	2125.3	2039.4	2019.5
25°	2598.1	2575.7	2518.5	2528.4	2588.1	2606.8	2504.8	2371.6	2237.2	2136.5	2112.8
27.5°	2641.6	2613.0	2586.9	2641.6	2726.2	2761.1	2652.8	2502.3	2356.7	2253.4	2234.8
30°	2708.8	2675.2	2671.5	2751.1	2885.5	2915.4	2795.9	2645.4	2501.0	2396.5	2372.9
32.5°	2793.4	2762.3	2764.8	2884.3	3039.8	3064.7	2962.7	2822.1	2677.7	2573.2	2540.8
35°	2907.9	2869.3	2890.5	3037.3	3194.1	3240.1	3158.0	3041.1	2900.5	2793.4	2757.4
37.5°	3065.9	3009.9	3053.5	3207.8	3365.8	3434.3	3370.8	3283.7	3144.3	3036.1	3002.5
40°	3267.5	3221.5	3238.9	3409.4	3572.4	3654.5	3614.7	3528.8	3390.7	3277.5	3238.9
42.5°	3506.4	3460.4	3454.2	3635.8	3798.8	3923.3	3884.7	3806.3	3663.2	3533.8	3496.5
45°	3740.3	3698.0	3706.8	3892.2	4075.1	4210.7	4172.1	4080.0	3924.5	3775.2	3745.3
47.5°	3984.2	3949.4	3956.9	4153.5	4355.0	4490.7	4442.1	4330.1	4148.5	3989.2	3953.1
50°	4234.3	4194.5	4205.7	4412.3	4630.0	4758.2	4683.5	4518.0	4317.7	4162.2	4131.1
52.5°	4483.2	4435.9	4464.5	4659.9	4885.1	4987.1	4849.0	4648.7	4454.6	4300.3	4265.4
55°	4769.4	4719.6	4688.5	4897.5	5120.3	5162.6	4973.4	4739.5	4509.3	4333.9	4312.7
57.5°	5030.7	4988.4	4929.9	5138.9	5303.2	5272.1	5069.3	4714.6	4376.2	4151.0	4121.1
60°	5264.6	5228.5	5177.5	5355.4	5430.1	5360.4	4992.1	4419.7	4047.7	3812.5	3798.8
62.5°	5479.9	5441.3	5394.0	5545.8	5535.9	5374.1	4641.2	3966.8	3469.1	3216.5	3194.1
65°	5650.3	5615.5	5601.8	5721.3	5705.1	5106.6	4095.0	3225.2	2534.6	2249.7	2241.0
67.5°	5698.9	5685.2	5758.6	5961.4	5708.8	4569.0	3211.5	2138.9	1361.3	1091.2	1075.1
70°	5517.2	5516.0	5726.2	6016.2	5191.2	3490.2	1895.1	964.3	684.4	607.2	597.3
72.5°	5280.8	5277.1	5443.8	5190.0	3849.8	1910.0	797.6	516.4	428.0	406.9	406.9
75°	4892.6	4882.6	5008.3	3948.1	2165.1	719.2	423.1	354.6	336.0	332.2	332.2
77.5°	3988.0	3904.6	3706.8	2440.1	755.3	353.4	280.0	278.7	267.5	266.3	266.3
80°	1311.5	1311.5	1524.3	930.7	333.5	217.8	197.8	207.8	196.6	189.1	187.9
82.5°	214.0	294.9	419.3	266.3	180.4	135.6	121.9	129.4	135.6	108.3	108.3
85°	84.6	110.7	161.8	124.4	83.4	54.7	58.5	64.7	57.2	49.8	48.5
87.5°	32.4	39.8	57.2	29.9	17.4	10.0	6.2	6.2	5.0	5.0	5.0
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)