

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: P639293

Luminaire Tested: GWS-SA5B-750-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639293
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-SA5B-750-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18697.2 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

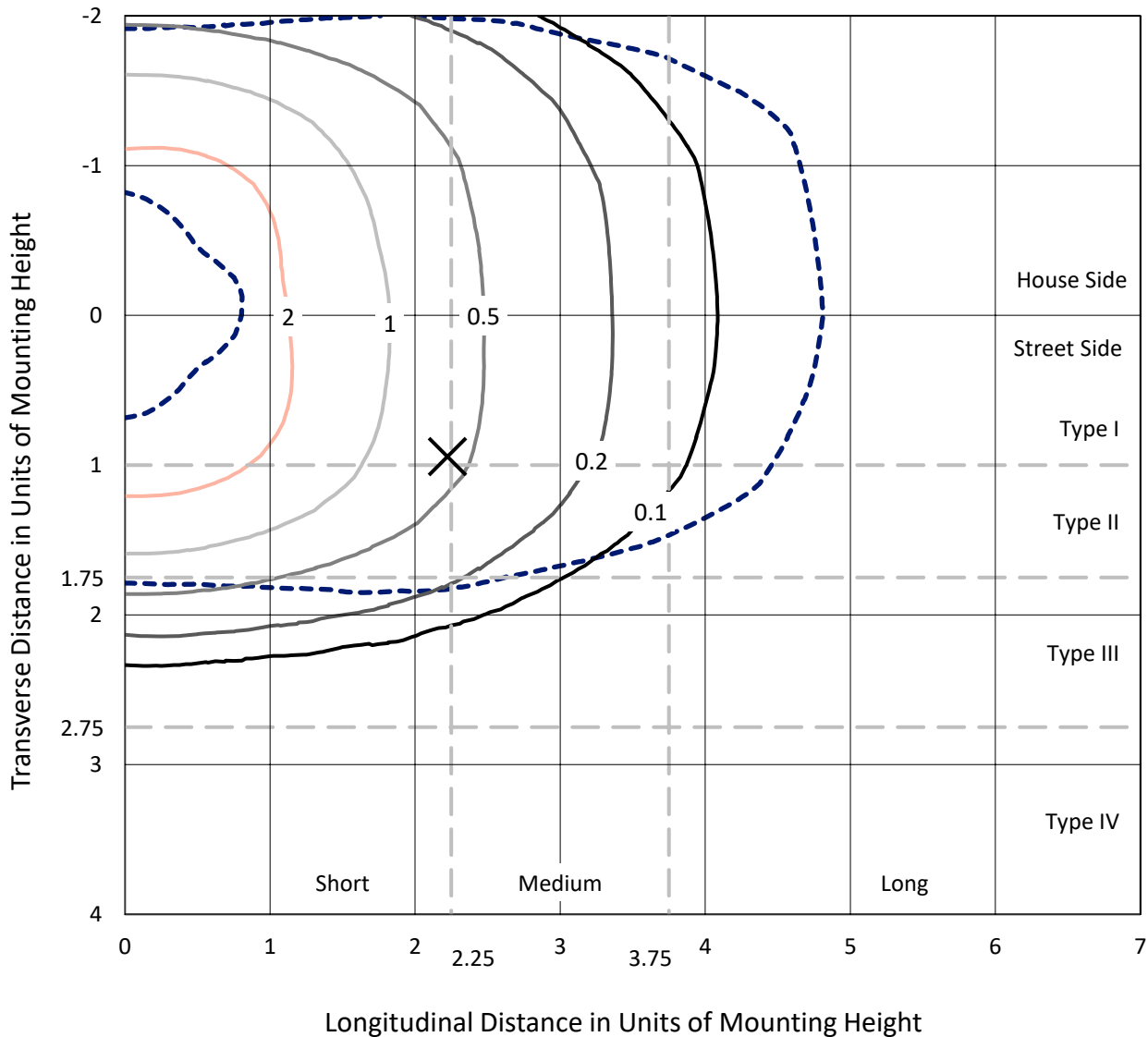
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

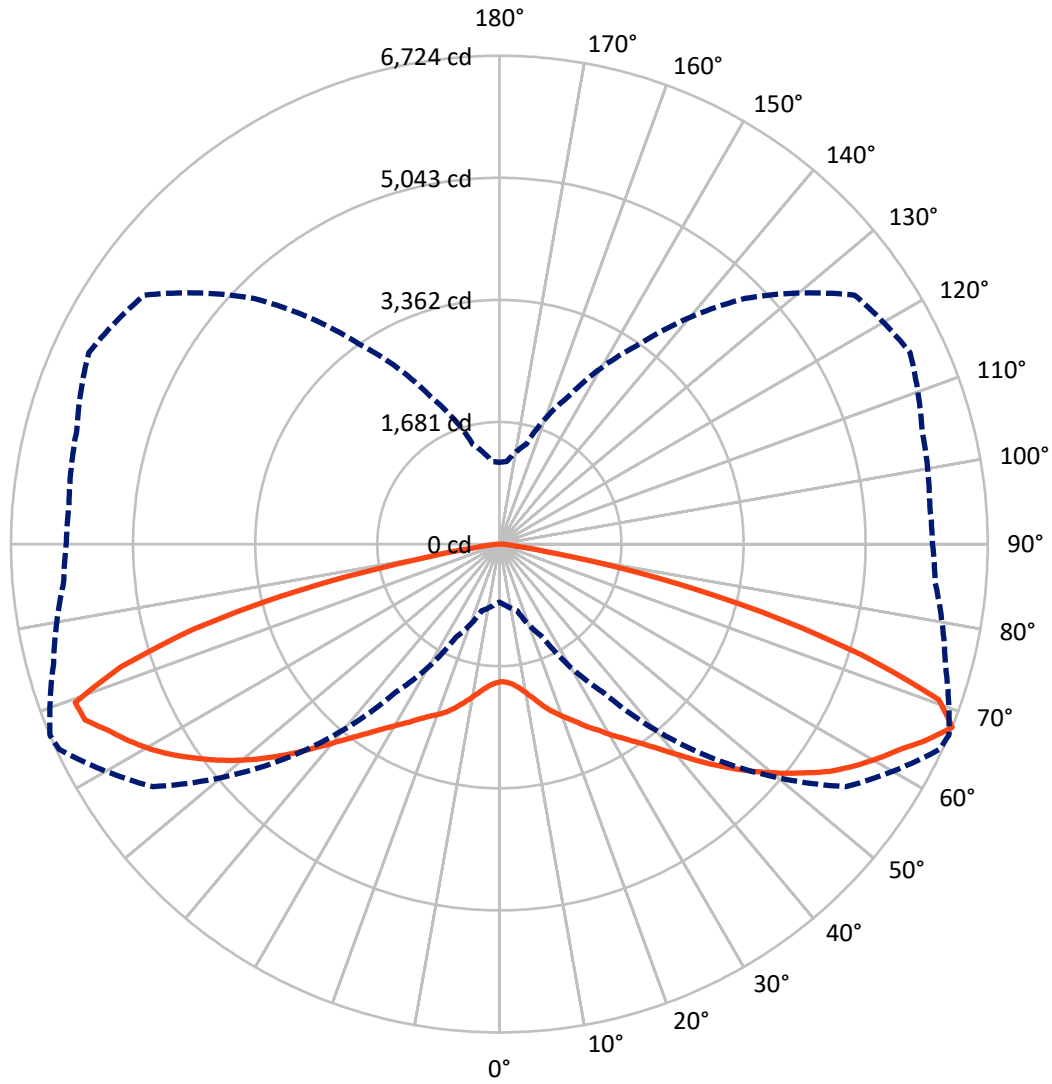
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	9245.4	0.0	9245.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	9451.8	0.0	9451.8
	% Fixture	50.6	0.0	50.6
Total	Lumens	18697.2	0.0	18697.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.0
10°-20°	627.5	3.4
20°-30°	1231.2	6.6
30°-40°	2097.5	11.2
40°-50°	3368.2	18.0
50°-60°	4576.7	24.5
60°-70°	4378.0	23.4
70°-80°	2081.4	11.1
80°-90°	150.8	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°	18697.2	100.0
0°-180°	18697.2	100.0

Coefficient of Utilization



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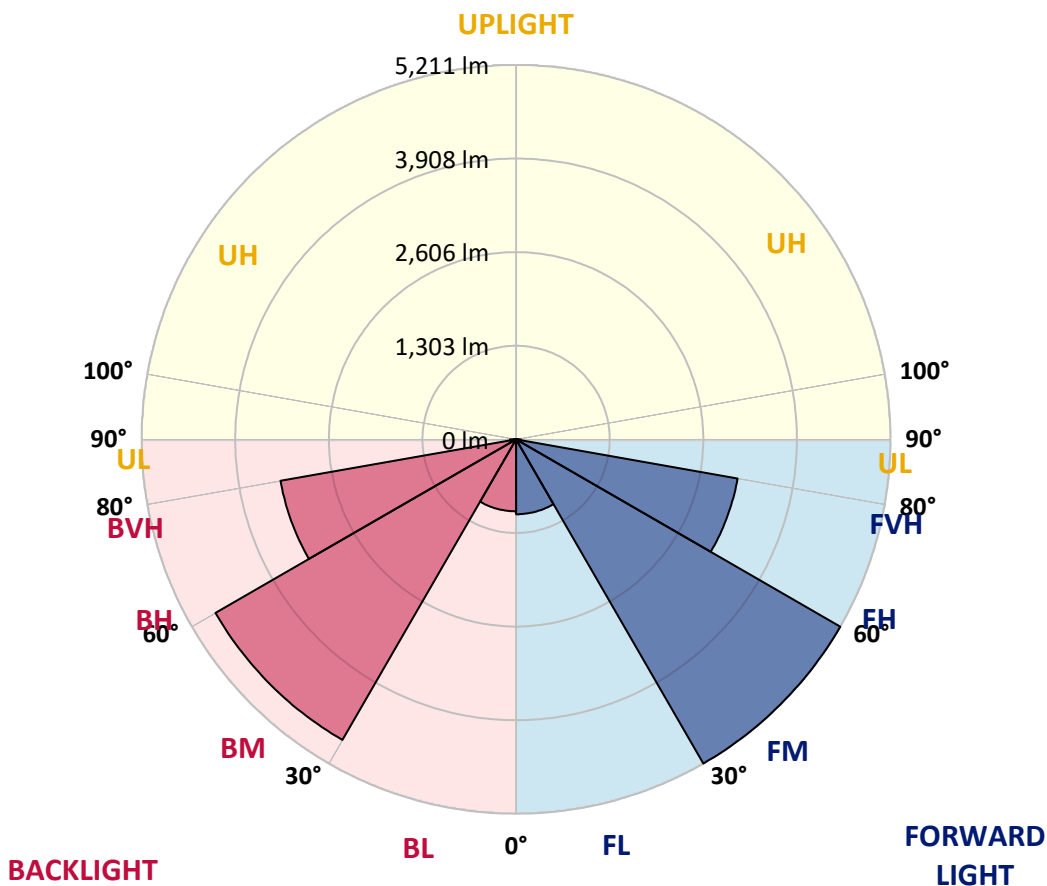
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.5	5.6			
FM (30°-60°)	5211.1	27.9			
FH (60°-80°)	3130.4	16.7			G2/5000
FVH (80°-90°)	67.8	0.4			G1/100
BL (0°-30°)	1001.9	5.4	B3/2500		
BM (30°-60°)	4831.4	25.8	B3/5000		
BH (60°-80°)	3329.0	17.8	B4/5000		G4/5000
BVH (80°-90°)	83.0	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°	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2
2.5°	1854.1	1856.7	1860.6	1868.5	1876.3	1888.0	1899.7	1898.4	1903.6	1907.5	1911.4
5°	1843.7	1846.3	1852.8	1863.2	1875.0	1894.5	1919.2	1929.7	1937.5	1951.8	1964.8
7.5°	1865.9	1871.1	1880.2	1894.5	1912.7	1937.5	1971.3	1989.5	2001.3	2027.3	2049.4
10°	1895.8	1902.3	1920.5	1947.9	1975.2	2013.0	2056.0	2083.3	2091.1	2125.0	2166.6
12.5°	1924.4	1932.3	1962.2	2011.7	2061.2	2111.9	2162.7	2196.6	2199.2	2244.8	2291.6
15°	1970.0	1976.5	2016.9	2080.7	2156.2	2226.5	2289.0	2312.5	2322.9	2355.4	2414.0
17.5°	2070.3	2078.1	2130.2	2199.2	2278.6	2352.8	2415.3	2434.9	2434.9	2462.2	2510.4
20°	2178.3	2186.2	2255.2	2343.7	2440.1	2515.6	2563.8	2545.5	2539.0	2546.8	2580.7
22.5°	2299.4	2313.8	2380.2	2483.0	2601.5	2694.0	2718.7	2664.0	2645.8	2627.6	2635.4
25°	2454.4	2471.3	2536.4	2645.8	2761.7	2859.3	2873.6	2789.0	2778.6	2714.8	2691.4
27.5°	2632.8	2645.8	2726.5	2834.6	2942.7	3024.7	3040.3	2936.1	2901.0	2812.5	2757.8
30°	2863.2	2874.9	2945.3	3052.0	3145.8	3203.1	3222.6	3079.4	3052.0	2916.6	2832.0
32.5°	3114.5	3119.7	3191.3	3294.2	3377.5	3432.2	3404.9	3238.2	3197.9	3045.5	2929.6
35°	3402.3	3402.3	3494.7	3578.1	3644.5	3660.1	3608.0	3417.9	3371.0	3205.7	3061.1
37.5°	3684.8	3692.6	3778.6	3877.5	3936.1	3933.5	3838.5	3630.1	3576.8	3397.1	3236.9
40°	3990.8	4007.7	4093.7	4204.4	4260.3	4252.5	4106.7	3874.9	3820.2	3608.0	3451.8
42.5°	4272.1	4299.4	4399.7	4512.9	4574.1	4568.9	4416.6	4156.2	4102.8	3863.2	3707.0
45°	4496.0	4524.7	4649.7	4807.2	4904.9	4895.7	4742.1	4447.8	4382.7	4131.4	3959.6
47.5°	4692.6	4722.6	4861.9	5028.6	5183.5	5199.1	5058.5	4742.1	4673.1	4419.2	4225.2
50°	4843.7	4858.0	5014.2	5196.5	5376.2	5463.4	5341.1	5037.7	4954.3	4703.0	4484.3
52.5°	4831.9	4851.5	5044.2	5291.6	5532.5	5675.7	5591.0	5316.3	5235.6	4962.2	4748.6
55°	4593.7	4613.2	4842.4	5203.0	5619.7	5830.6	5821.5	5581.9	5523.3	5226.5	5023.3
57.5°	4246.0	4289.0	4516.8	4906.2	5505.1	5954.3	5990.8	5824.1	5762.9	5485.6	5295.5
60°	3623.6	3680.9	3943.9	4449.1	5137.9	5912.7	6171.8	6028.5	5990.8	5726.5	5541.6
62.5°	2632.8	2674.4	3024.7	3687.4	4593.7	5615.8	6324.1	6239.5	6210.8	5942.6	5764.2
65°	1576.8	1671.8	1953.1	2608.0	3705.7	5055.9	6240.8	6515.5	6485.6	6165.3	5954.3
67.5°	798.2	841.1	951.8	1414.0	2492.1	4183.5	5822.8	6687.4	6723.8	6355.4	6022.0
70°	494.8	506.5	537.8	697.9	1244.8	2748.6	4761.6	6239.5	6417.9	6325.4	5846.3
72.5°	397.1	399.7	404.9	434.9	597.6	1285.1	3010.4	4886.6	5208.2	5907.4	5595.0
75°	329.4	330.7	332.0	341.1	372.4	524.7	1464.8	3358.0	3734.3	5020.7	5187.4
77.5°	264.3	257.8	263.0	266.9	274.7	293.0	505.2	1791.6	2173.1	3295.5	4011.6
80°	171.9	169.3	179.7	183.6	191.4	203.1	269.5	608.1	738.3	1199.2	1276.0
82.5°	92.4	87.2	109.4	105.5	109.4	118.5	158.9	222.7	250.0	362.0	306.0
85°	28.6	28.6	29.9	35.2	43.0	41.7	69.0	109.4	121.1	154.9	114.6
87.5°	5.2	5.2	5.2	5.2	5.2	6.5	14.3	22.1	29.9	53.4	40.4
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°	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2	1893.2
2.5°	1919.2	1907.5	1914.0	1917.9	1916.6	1914.0	1901.0	1898.4	1891.9	1881.5	1878.9
5°	1976.5	1963.5	1964.8	1960.9	1947.9	1931.0	1902.3	1888.0	1876.3	1863.2	1861.9
7.5°	2066.4	2052.0	2048.1	2029.9	1993.5	1954.4	1908.8	1882.8	1863.2	1846.3	1843.7
10°	2181.0	2166.6	2153.6	2110.6	2050.7	1998.7	1938.8	1901.0	1872.4	1851.5	1847.6
12.5°	2308.6	2296.8	2264.3	2201.8	2130.2	2069.0	2007.8	1960.9	1919.2	1888.0	1884.1
15°	2450.5	2424.4	2375.0	2294.2	2226.5	2177.0	2102.8	2039.0	1972.6	1931.0	1921.8
17.5°	2549.4	2527.3	2468.7	2390.6	2337.2	2294.2	2207.0	2115.8	2026.0	1964.8	1951.8
20°	2619.7	2596.3	2529.9	2472.6	2455.7	2419.2	2317.7	2212.2	2108.0	2032.5	2015.6
22.5°	2670.5	2645.8	2578.1	2549.4	2572.9	2566.4	2467.4	2347.6	2223.9	2134.1	2113.2
25°	2718.7	2695.3	2635.4	2645.8	2708.3	2727.8	2621.0	2481.7	2341.1	2235.6	2210.9
27.5°	2764.3	2734.3	2707.0	2764.3	2852.8	2889.3	2776.0	2618.4	2466.1	2358.0	2338.5
30°	2834.6	2799.4	2795.5	2878.9	3019.5	3050.7	2925.7	2768.2	2617.1	2507.8	2483.0
32.5°	2923.1	2890.6	2893.2	3018.2	3180.9	3207.0	3100.2	2953.1	2802.0	2692.7	2658.8
35°	3042.9	3002.6	3024.7	3178.3	3342.4	3390.6	3304.6	3182.2	3035.1	2923.1	2885.4
37.5°	3208.3	3149.7	3195.3	3356.7	3522.1	3593.7	3527.3	3436.1	3290.3	3177.0	3141.9
40°	3419.2	3371.0	3389.3	3567.6	3738.2	3824.2	3782.5	3692.6	3548.1	3429.6	3389.3
42.5°	3669.2	3621.0	3614.5	3804.6	3975.2	4105.4	4065.0	3983.0	3833.3	3697.9	3658.8
45°	3914.0	3869.7	3878.8	4072.8	4264.2	4406.2	4365.8	4269.5	4106.7	3950.5	3919.2
47.5°	4169.2	4132.7	4140.6	4346.3	4557.2	4699.1	4648.4	4531.2	4341.1	4174.4	4136.6
50°	4430.9	4389.2	4401.0	4617.1	4845.0	4979.1	4901.0	4727.8	4518.1	4355.4	4322.8
52.5°	4691.3	4641.8	4671.8	4876.2	5111.9	5218.7	5074.1	4864.5	4661.4	4499.9	4463.5
55°	4990.8	4938.7	4906.2	5124.9	5358.0	5402.2	5204.3	4959.5	4718.7	4535.1	4512.9
57.5°	5264.2	5220.0	5158.8	5377.5	5549.4	5516.8	5304.6	4933.5	4579.3	4343.7	4312.4
60°	5509.0	5471.3	5417.9	5604.1	5682.2	5609.3	5223.9	4624.9	4235.6	3989.5	3975.2
62.5°	5734.3	5693.9	5644.4	5803.3	5792.9	5623.6	4856.7	4151.0	3630.1	3365.8	3342.4
65°	5912.7	5876.2	5861.9	5986.9	5969.9	5343.7	4285.1	3374.9	2652.3	2354.1	2345.0
67.5°	5963.4	5949.1	6025.9	6238.2	5973.9	4781.2	3360.6	2238.2	1424.5	1141.9	1125.0
70°	5773.3	5772.0	5992.1	6295.5	5432.2	3652.3	1983.0	1009.1	716.1	635.4	625.0
72.5°	5525.9	5522.0	5696.5	5430.9	4028.6	1998.7	834.6	540.4	447.9	425.8	425.8
75°	5119.7	5109.3	5240.8	4131.4	2265.6	752.6	442.7	371.1	351.6	347.7	347.7
77.5°	4173.1	4085.9	3878.8	2553.3	790.4	369.8	293.0	291.7	279.9	278.6	278.6
80°	1372.4	1372.4	1595.0	973.9	349.0	227.9	207.0	217.4	205.7	197.9	196.6
82.5°	224.0	308.6	438.8	278.6	188.8	141.9	127.6	135.4	141.9	113.3	113.3
85°	88.5	115.9	169.3	130.2	87.2	57.3	61.2	67.7	59.9	52.1	50.8
87.5°	33.9	41.7	59.9	31.2	18.2	10.4	6.5	6.5	5.2	5.2	5.2
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)