

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: P635798

Luminaire Tested: GWS-SA3E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19354.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

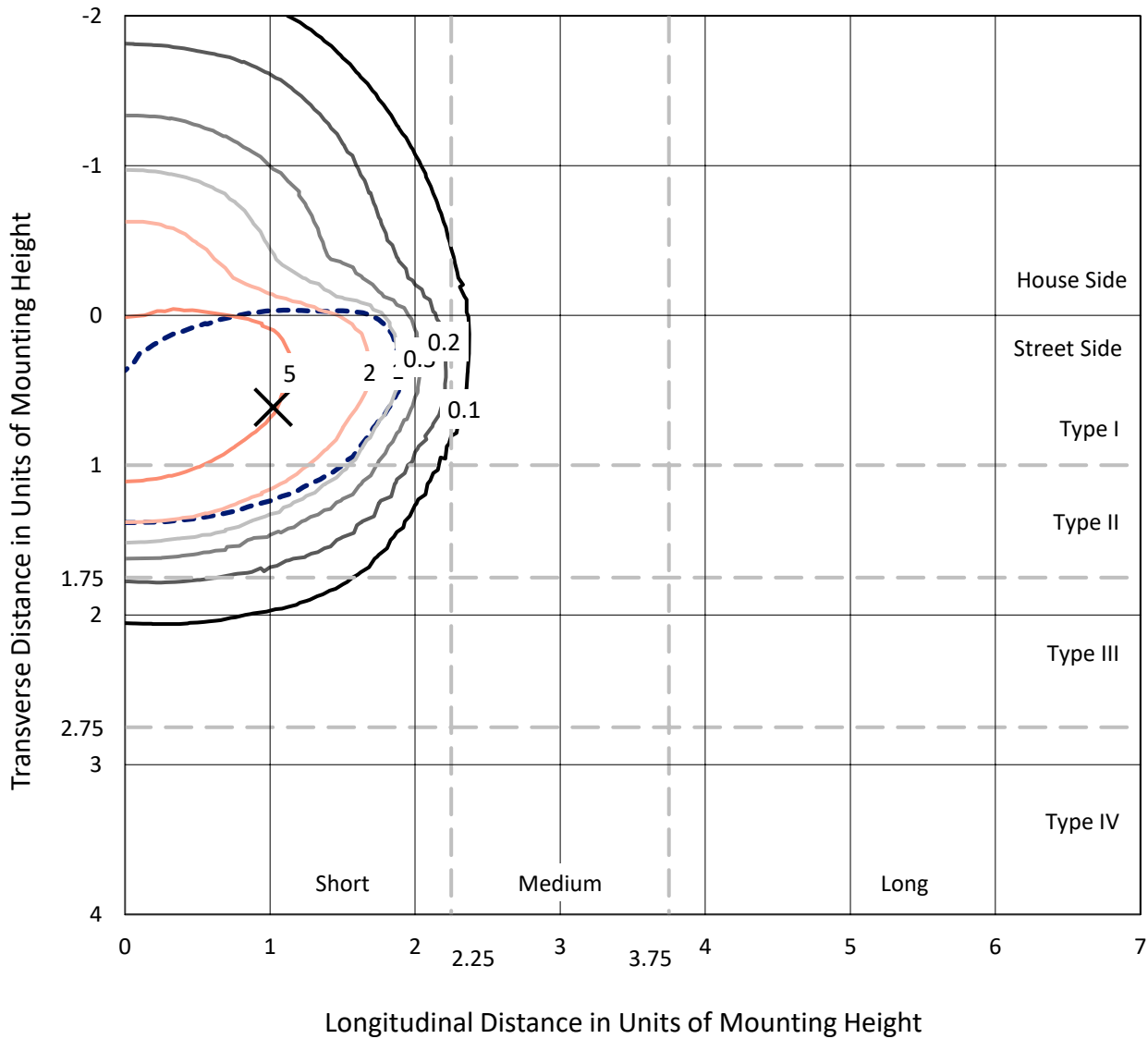
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

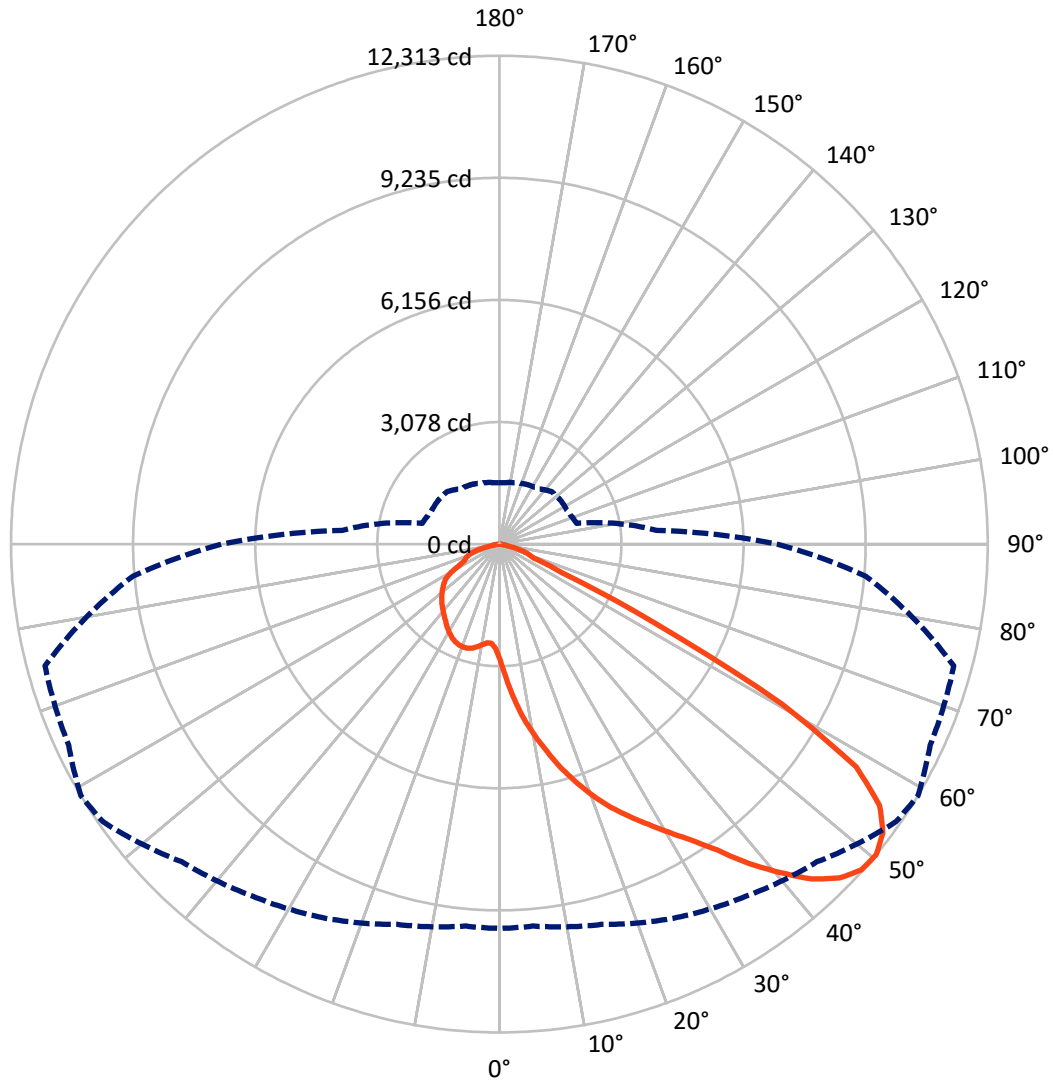
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.0	0.0	4452.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	14902.8	0.0	14902.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	19354.8	0.0	19354.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.7
10°-20°	1194.2	6.2
20°-30°	2261.3	11.7
30°-40°	3750.0	19.4
40°-50°	5122.7	26.5
50°-60°	4650.1	24.0
60°-70°	1548.5	8.0
70°-80°	451.6	2.3
80°-90°	47.4	0.2
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°	19354.8	100.0
0°-180°	19354.8	100.0

Coefficient of Utilization



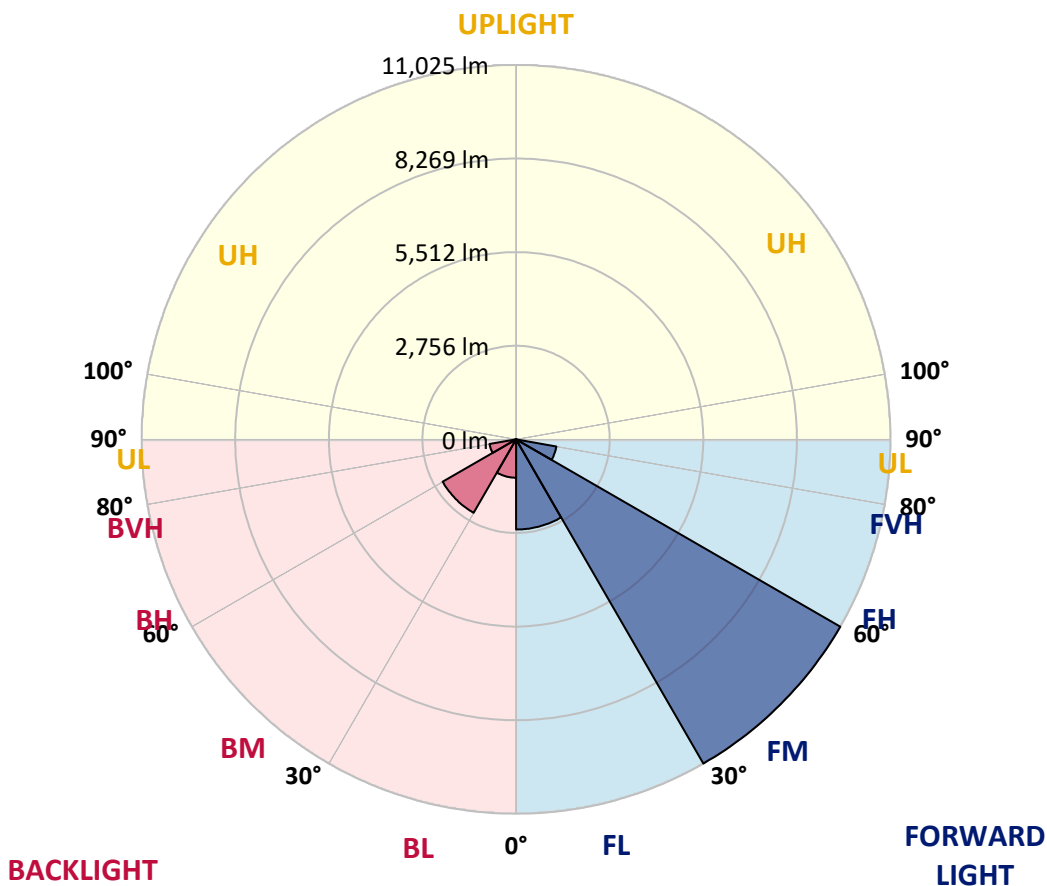
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2654.0	13.7			
FM (30°-60°)	11024.7	57.0			
FH (60°-80°)	1205.5	6.2			G1/1800
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1130.5	5.8	B3/2500		
BM (30°-60°)	2498.0	12.9	B2/2500		
BH (60°-80°)	794.6	4.1	B2/1000		G2/1000
BVH (80°-90°)	28.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4
2.5°	3799.5	3827.9	3783.7	3786.9	3676.5	3626.1	3484.2	3400.6	3345.4	3190.9	3050.6
5°	4565.7	4532.6	4497.9	4477.4	4381.2	4245.7	4069.1	3928.8	3799.5	3496.8	3205.1
7.5°	5035.5	5018.2	4994.5	4981.9	4887.3	4745.4	4568.9	4449.0	4261.4	3851.5	3392.7
10°	5434.4	5413.9	5399.7	5409.2	5331.9	5240.5	5048.1	4911.0	4699.7	4226.7	3619.8
12.5°	5743.4	5754.4	5759.1	5809.6	5776.5	5721.3	5522.7	5377.6	5142.7	4622.5	3886.2
15°	5987.7	5984.6	6039.8	6135.9	6189.5	6154.9	5995.6	5874.2	5587.3	5011.9	4173.1
17.5°	6044.5	6047.7	6134.4	6303.1	6478.1	6563.2	6473.3	6328.3	6044.5	5396.5	4471.1
20°	6090.2	6096.5	6186.4	6378.7	6634.1	6872.2	6886.4	6782.3	6538.0	5812.8	4773.8
22.5°	6378.7	6392.9	6416.6	6538.0	6768.1	7069.3	7234.8	7212.7	7007.8	6249.5	5100.1
25°	7137.1	7094.5	6979.4	6944.7	7033.0	7277.4	7559.6	7602.1	7501.2	6730.3	5451.7
27.5°	8073.5	8027.8	7857.5	7677.8	7487.1	7572.2	7873.3	8001.0	8002.6	7260.0	5804.9
30°	8923.3	8887.0	8748.3	8491.3	8161.8	8038.8	8261.1	8433.0	8535.5	7871.7	6206.9
32.5°	9650.1	9617.0	9429.4	9219.7	8898.1	8650.5	8731.0	8896.5	9136.1	8663.2	6706.7
35°	10261.8	10228.7	10049.0	9837.7	9539.7	9391.5	9363.1	9476.7	9787.2	9489.3	7280.5
37.5°	10758.4	10725.3	10537.7	10339.0	10112.0	10121.5	10164.0	10219.2	10397.4	10373.7	7893.8
40°	11080.0	11045.3	10911.3	10769.4	10626.0	10739.5	10950.7	10884.5	10979.1	11087.9	8458.2
42.5°	11223.5	11179.3	11102.1	11070.6	11026.4	11203.0	11609.7	11543.5	11430.0	11564.0	8877.6
45°	11080.0	11042.2	11040.6	11136.8	11239.2	11466.3	12065.4	12011.8	11724.8	11794.2	9128.2
47.5°	10640.2	10607.1	10696.9	10949.2	11201.4	11532.5	12268.7	12278.2	11934.5	11890.4	9290.6
50°	9689.5	9667.4	9927.6	10405.3	10840.4	11326.0	12204.1	12312.9	11985.0	11860.4	9270.1
52.5°	7756.6	7859.1	8425.1	9222.8	10067.9	10963.4	11964.5	12106.4	11742.2	11663.3	9159.8
55°	5309.8	5357.1	5923.1	7088.2	8428.3	10178.2	11414.2	11633.4	11455.2	11630.2	9274.9
57.5°	2749.5	2787.3	3233.5	4267.7	5716.6	8043.6	9886.6	10605.5	10876.6	11797.3	9632.7
60°	1128.8	1160.3	1344.8	1844.6	2883.5	4683.9	7115.0	8180.7	8817.7	10774.2	8554.4
62.5°	819.8	835.6	923.9	1100.4	1510.3	2295.5	4026.5	4419.1	4866.8	6752.4	5431.2
65°	690.5	707.9	778.8	886.0	1102.0	1407.9	1720.0	1729.5	1906.1	2751.1	2013.3
67.5°	578.6	594.4	657.4	748.9	890.8	999.5	923.9	925.4	922.3	998.0	964.9
70°	450.9	463.5	526.6	624.3	698.4	641.7	722.1	799.3	766.2	796.2	841.9
72.5°	329.5	343.7	398.9	473.0	454.0	457.2	584.9	663.7	644.8	677.9	720.5
75°	238.1	247.5	275.9	236.5	249.1	301.1	411.5	454.0	473.0	501.3	539.2
77.5°	77.3	77.3	86.7	108.8	135.6	167.1	209.7	227.0	255.4	286.9	313.7
80°	39.4	41.0	48.9	59.9	75.7	96.2	123.0	130.9	145.0	162.4	173.4
82.5°	18.9	20.5	23.6	30.0	39.4	50.4	67.8	75.7	85.1	96.2	104.1
85°	4.7	4.7	6.3	9.5	12.6	18.9	25.2	30.0	37.8	45.7	50.4
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.3	7.9	9.5	12.6
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°	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4	2932.4
2.5°	2987.6	2899.3	2785.8	2689.6	2601.3	2533.5	2475.2	2446.8	2420.0	2401.1	2407.4
5°	3069.5	2918.2	2706.9	2560.3	2470.5	2424.7	2393.2	2377.4	2374.3	2361.7	2356.9
7.5°	3189.4	2973.4	2691.2	2543.0	2483.1	2459.4	2442.1	2432.6	2437.4	2424.7	2420.0
10°	3337.6	3064.8	2730.6	2599.7	2547.7	2530.4	2511.4	2498.8	2492.5	2473.6	2470.5
12.5°	3522.0	3178.3	2801.5	2672.3	2620.2	2590.3	2565.1	2543.0	2528.8	2505.1	2498.8
15°	3720.7	3304.5	2885.1	2743.2	2681.7	2637.6	2596.6	2563.5	2538.3	2506.7	2502.0
17.5°	3936.7	3436.9	2954.5	2792.1	2713.2	2654.9	2595.0	2546.1	2511.4	2470.5	2465.7
20°	4162.1	3570.9	3006.5	2815.7	2714.8	2636.0	2555.6	2491.0	2446.8	2405.8	2402.7
22.5°	4395.4	3693.9	3038.0	2809.4	2689.6	2591.9	2495.7	2423.2	2371.1	2322.3	2319.1
25°	4630.3	3812.1	3045.9	2784.2	2639.2	2525.6	2429.5	2344.3	2286.0	2230.8	2224.5
27.5°	4868.4	3911.4	3027.0	2733.7	2571.4	2448.4	2352.2	2268.7	2208.8	2153.6	2144.1
30°	5122.2	3996.6	2986.0	2667.5	2492.5	2366.4	2271.8	2208.8	2152.0	2096.8	2087.4
32.5°	5393.4	4070.7	2927.7	2587.1	2401.1	2284.4	2215.1	2158.3	2101.5	2052.7	2043.2
35°	5716.6	4119.5	2840.9	2483.1	2316.0	2224.5	2177.2	2111.0	2041.6	1988.0	1983.3
37.5°	6050.8	4157.4	2736.9	2383.7	2241.9	2189.8	2150.4	2060.6	1973.8	1909.2	1901.3
40°	6374.0	4188.9	2607.6	2290.7	2174.1	2164.6	2111.0	1999.1	1849.3	1776.8	1770.5
42.5°	6675.1	4198.4	2472.0	2191.4	2112.6	2107.9	2047.9	1874.5	1759.4	1713.7	1707.4
45°	6881.7	4190.5	2331.7	2098.4	2051.1	2025.9	1962.8	1784.7	1713.7	1672.7	1664.8
47.5°	7034.6	4149.5	2174.1	2000.6	1981.7	1947.0	1811.5	1727.9	1661.7	1620.7	1612.8
50°	7007.8	3979.2	2014.8	1906.1	1898.2	1868.2	1701.1	1657.0	1598.6	1554.5	1548.2
52.5°	6869.0	3656.0	1852.5	1802.0	1817.8	1759.4	1622.3	1571.8	1521.4	1470.9	1459.9
55°	6903.7	3422.7	1729.5	1701.1	1729.5	1597.0	1534.0	1480.4	1433.1	1384.2	1374.8
57.5°	7055.1	3192.5	1598.6	1592.3	1622.3	1472.5	1420.5	1352.7	1284.9	1245.5	1245.5
60°	5924.7	2327.0	1368.4	1384.2	1452.0	1371.6	1325.9	1256.5	1182.4	1147.7	1147.7
62.5°	3503.1	1459.9	1135.1	1117.8	1160.3	1210.8	1236.0	1179.3	1091.0	1045.3	1046.8
65°	1543.4	1062.6	1001.1	986.9	974.3	1009.0	1078.4	1083.1	990.1	936.5	938.0
67.5°	950.7	961.7	936.5	925.4	914.4	908.1	901.8	904.9	879.7	830.8	829.3
70°	857.6	887.6	870.3	860.8	846.6	835.6	797.7	736.3	693.7	681.1	695.3
72.5°	737.8	778.8	769.4	764.6	747.3	720.5	670.0	610.1	559.7	528.1	534.5
75°	556.5	589.6	594.4	595.9	577.0	551.8	499.8	449.3	405.2	372.1	379.9
77.5°	320.0	339.0	343.7	348.4	334.2	324.8	290.1	253.8	230.2	195.5	205.0
80°	178.2	186.0	186.0	187.6	179.7	168.7	145.0	124.5	113.5	97.7	99.3
82.5°	107.2	110.4	111.9	113.5	108.8	97.7	80.4	66.2	59.9	52.0	50.4
85°	52.0	55.2	55.2	56.8	48.9	42.6	33.1	25.2	22.1	15.8	17.3
87.5°	12.6	14.2	14.2	12.6	11.0	7.9	4.7	1.6	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)