

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: P639813

Luminaire Tested: GWS-SA5C-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639813
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-SA5C-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21437.7 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

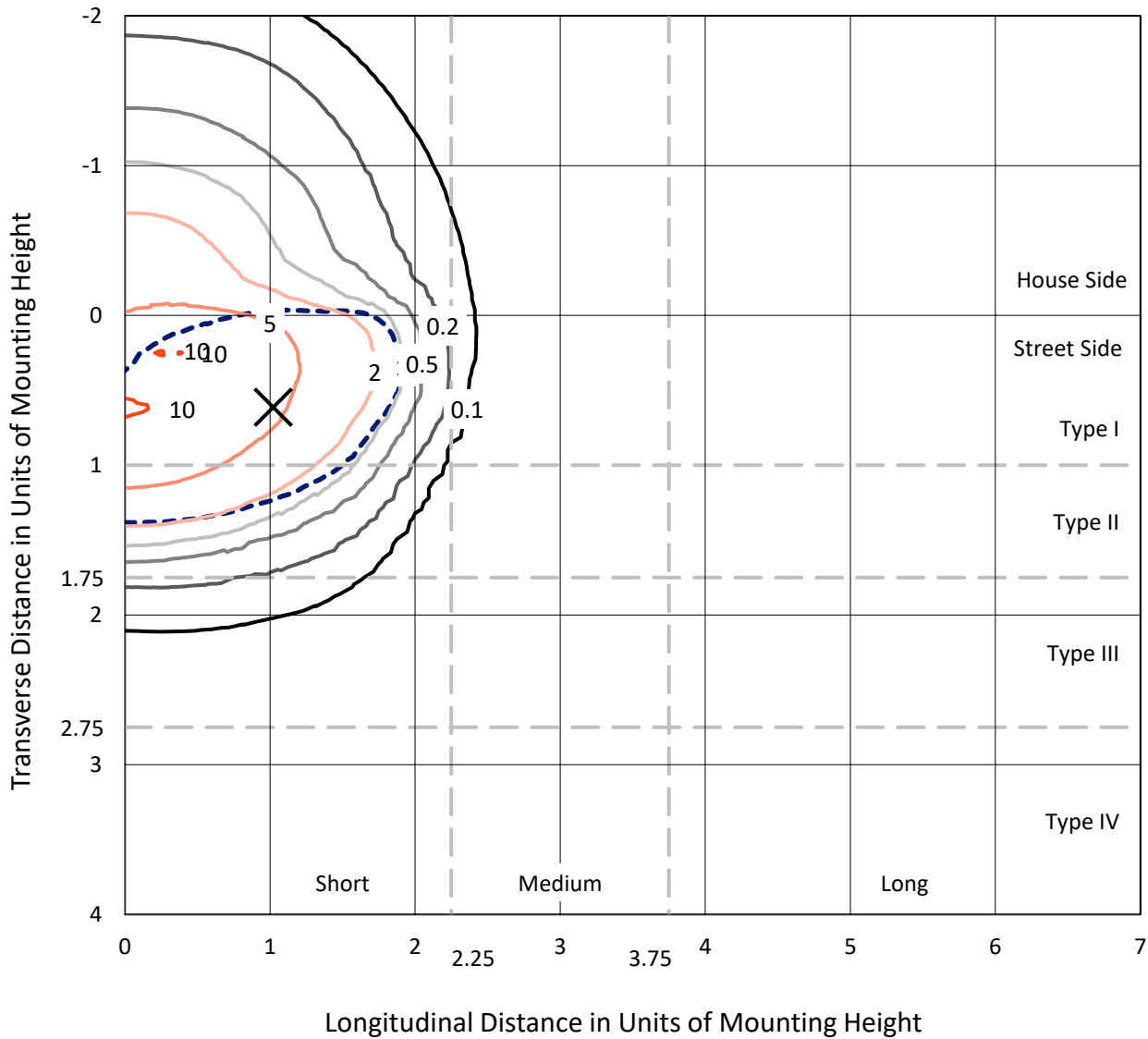
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

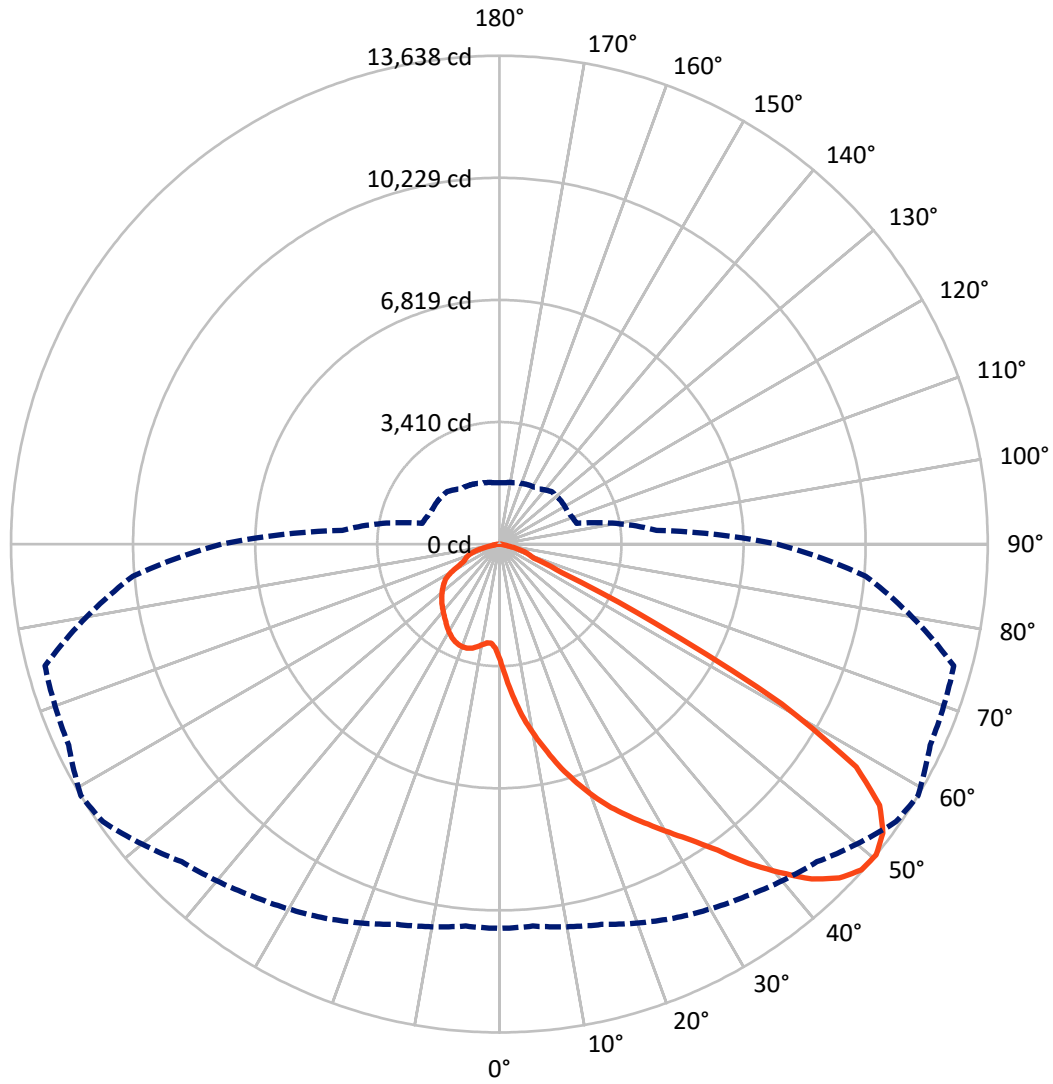
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	4931.1	0.0	4931.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16506.6	0.0	16506.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	21437.7	0.0	21437.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	1.7
10°-20°	1322.7	6.2
20°-30°	2504.7	11.7
30°-40°	4153.5	19.4
40°-50°	5674.0	26.5
50°-60°	5150.5	24.0
60°-70°	1715.2	8.0
70°-80°	500.3	2.3
80°-90°	52.5	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°	21437.7	100.0
0°-180°	21437.7	100.0

Coefficient of Utilization



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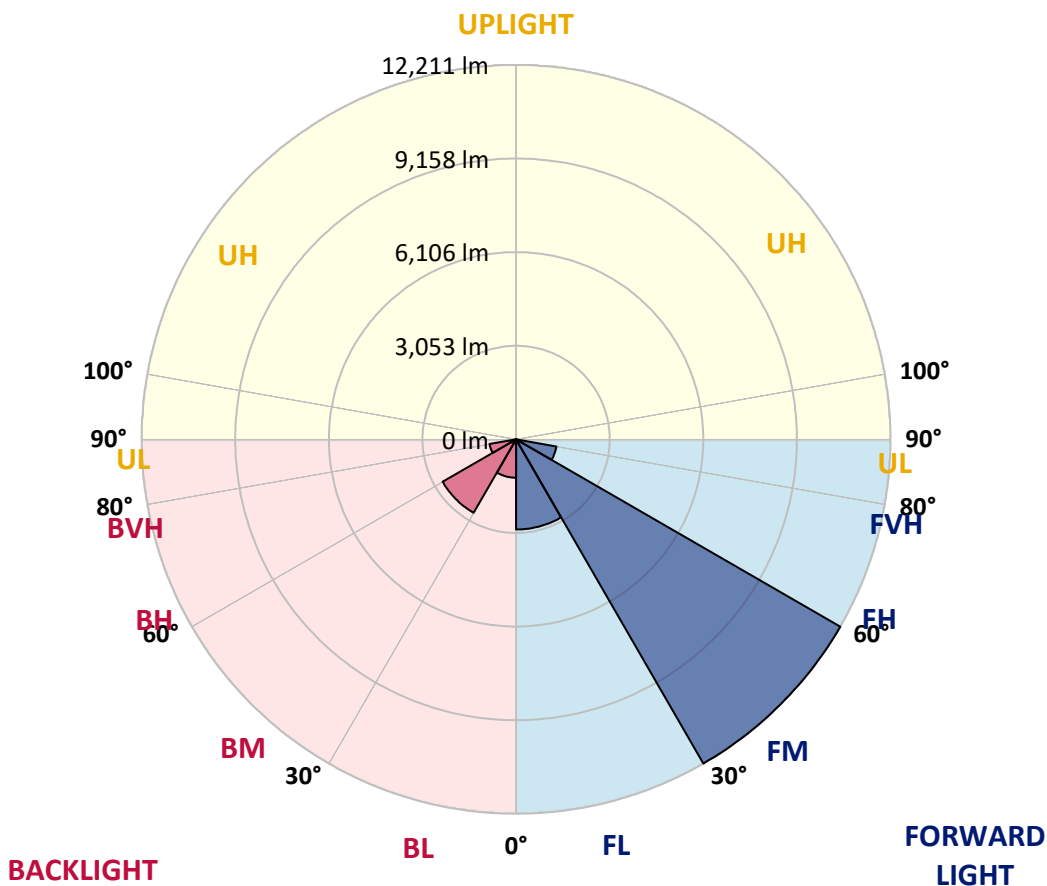
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2939.6	13.7			
FM (30°-60°)	12211.2	57.0			
FH (60°-80°)	1335.3	6.2			G1/1800
FVH (80°-90°)	20.5	0.1			G1/100
BL (0°-30°)	1252.1	5.8	B3/2500		
BM (30°-60°)	2766.8	12.9	B3/5000		
BH (60°-80°)	880.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0
2.5°	4208.4	4239.8	4190.9	4194.4	4072.2	4016.3	3859.1	3766.6	3705.5	3534.3	3378.9
5°	5057.0	5020.4	4982.0	4959.3	4852.7	4702.6	4507.0	4351.6	4208.4	3873.1	3550.1
7.5°	5577.4	5558.2	5532.0	5518.0	5413.3	5256.1	5060.5	4927.8	4720.0	4266.0	3757.9
10°	6019.2	5996.5	5980.8	5991.3	5905.7	5804.4	5591.4	5439.5	5205.5	4681.6	4009.3
12.5°	6361.5	6373.7	6378.9	6434.8	6398.1	6337.0	6117.0	5956.3	5696.2	5119.9	4304.4
15°	6632.1	6628.6	6689.8	6796.3	6855.6	6817.2	6640.9	6506.4	6188.6	5551.2	4622.2
17.5°	6695.0	6698.5	6794.5	6981.4	7175.2	7269.5	7170.0	7009.3	6695.0	5977.3	4952.3
20°	6745.6	6752.6	6852.2	7065.2	7348.1	7611.8	7627.5	7512.2	7241.6	6438.3	5287.5
22.5°	7065.2	7080.9	7107.1	7241.6	7496.5	7830.0	8013.4	7988.9	7761.9	6922.0	5649.0
25°	7905.1	7858.0	7730.5	7692.1	7789.9	8060.5	8373.1	8420.3	8308.5	7454.6	6038.4
27.5°	8942.4	8891.7	8703.1	8504.1	8292.8	8387.1	8720.6	8862.0	8863.8	8041.3	6429.6
30°	9883.6	9843.4	9689.8	9405.1	9040.2	8904.0	9150.2	9340.5	9454.0	8718.9	6874.9
32.5°	10688.6	10651.9	10444.1	10211.9	9855.6	9581.5	9670.5	9853.9	10119.3	9595.5	7428.4
35°	11366.1	11329.5	11130.4	10896.4	10566.4	10402.2	10370.8	10496.5	10840.5	10510.5	8064.0
37.5°	11916.2	11879.5	11671.7	11451.7	11200.2	11210.7	11257.9	11319.0	11516.3	11490.1	8743.3
40°	12272.4	12234.0	12085.6	11928.4	11769.5	11895.2	12129.2	12055.9	12160.7	12281.1	9368.5
42.5°	12431.3	12382.4	12296.9	12261.9	12213.0	12408.6	12859.1	12785.8	12660.1	12808.5	9832.9
45°	12272.4	12230.5	12228.8	12335.3	12448.8	12700.2	13363.8	13304.4	12986.6	13063.4	10110.6
47.5°	11785.2	11748.5	11848.1	12127.5	12406.9	12773.6	13589.1	13599.5	13218.9	13170.0	10290.5
50°	10732.2	10707.8	10995.9	11525.0	12007.0	12544.8	13517.5	13638.0	13274.7	13136.8	10267.8
52.5°	8591.4	8704.9	9331.8	10215.4	11151.3	12143.2	13252.0	13409.2	13005.8	12918.5	10145.5
55°	5881.3	5933.6	6560.5	7851.0	9335.3	11273.6	12642.6	12885.3	12688.0	12881.8	10273.0
57.5°	3045.4	3087.3	3581.5	4727.0	6331.8	8909.2	10950.5	11746.8	12047.1	13066.9	10669.4
60°	1250.3	1285.2	1489.5	2043.1	3193.8	5188.0	7880.7	9061.1	9766.6	11933.6	9475.0
62.5°	908.0	925.5	1023.3	1218.9	1672.9	2542.5	4459.8	4894.6	5390.6	7479.0	6015.7
65°	764.8	784.1	862.6	981.4	1220.6	1559.4	1905.1	1915.6	2111.2	3047.1	2229.9
67.5°	640.9	658.3	728.2	829.5	986.6	1107.1	1023.3	1025.0	1021.5	1105.4	1068.7
70°	499.4	513.4	583.2	691.5	773.6	710.7	799.8	885.3	848.7	881.8	932.5
72.5°	365.0	380.7	441.8	523.9	502.9	506.4	647.8	735.2	714.2	750.9	798.0
75°	263.7	274.2	305.6	261.9	275.9	333.5	455.8	502.9	523.9	555.3	597.2
77.5°	85.6	85.6	96.0	120.5	150.2	185.1	232.2	251.5	282.9	317.8	347.5
80°	43.7	45.4	54.1	66.4	83.8	106.5	136.2	144.9	160.7	179.9	192.1
82.5°	21.0	22.7	26.2	33.2	43.7	55.9	75.1	83.8	94.3	106.5	115.3
85°	5.2	5.2	7.0	10.5	14.0	21.0	27.9	33.2	41.9	50.6	55.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.2	7.0	8.7	10.5	14.0
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°	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0	3248.0
2.5°	3309.1	3211.3	3085.6	2979.0	2881.3	2806.2	2741.6	2710.1	2680.4	2659.5	2666.5
5°	3399.9	3232.2	2998.3	2835.9	2736.3	2685.7	2650.8	2633.3	2629.8	2615.8	2610.6
7.5°	3532.6	3293.4	2980.8	2816.6	2750.3	2724.1	2704.9	2694.4	2699.7	2685.7	2680.4
10°	3696.7	3394.6	3024.4	2879.5	2821.9	2802.7	2781.7	2767.8	2760.8	2739.8	2736.3
12.5°	3901.0	3520.4	3103.0	2959.8	2902.2	2869.0	2841.1	2816.6	2800.9	2774.7	2767.8
15°	4121.1	3660.1	3195.6	3038.4	2970.3	2921.4	2876.0	2839.3	2811.4	2776.5	2771.2
17.5°	4360.3	3806.8	3272.4	3092.5	3005.2	2940.6	2874.3	2820.1	2781.7	2736.3	2731.1
20°	4610.0	3955.2	3330.0	3118.7	3007.0	2919.7	2830.6	2759.0	2710.1	2664.7	2661.2
22.5°	4868.5	4091.4	3365.0	3111.8	2979.0	2870.8	2764.3	2683.9	2626.3	2572.2	2568.7
25°	5128.6	4222.4	3373.7	3083.8	2923.2	2797.4	2690.9	2596.6	2532.0	2470.9	2463.9
27.5°	5392.3	4332.4	3352.7	3027.9	2848.1	2711.9	2605.4	2512.8	2446.4	2385.3	2374.9
30°	5673.5	4426.7	3307.3	2954.6	2760.8	2621.1	2516.3	2446.4	2383.6	2322.5	2312.0
32.5°	5973.8	4508.7	3242.7	2865.5	2659.5	2530.3	2453.4	2390.6	2327.7	2273.6	2263.1
35°	6331.8	4562.9	3146.7	2750.3	2565.2	2463.9	2411.5	2338.2	2261.4	2202.0	2196.7
37.5°	6702.0	4604.8	3031.4	2640.3	2483.1	2425.5	2381.8	2282.3	2186.3	2114.7	2105.9
40°	7060.0	4639.7	2888.2	2537.3	2408.0	2397.6	2338.2	2214.2	2048.3	1968.0	1961.0
42.5°	7393.5	4650.2	2738.1	2427.2	2339.9	2334.7	2268.3	2076.3	1948.8	1898.1	1891.2
45°	7622.2	4641.4	2582.7	2324.2	2271.8	2243.9	2174.0	1976.7	1898.1	1852.7	1844.0
47.5°	7791.6	4596.0	2408.0	2215.9	2195.0	2156.6	2006.4	1913.9	1840.5	1795.1	1786.4
50°	7761.9	4407.5	2231.7	2111.2	2102.4	2069.3	1884.2	1835.3	1770.7	1721.8	1714.8
52.5°	7608.3	4049.5	2051.8	1995.9	2013.4	1948.8	1796.9	1741.0	1685.1	1629.2	1617.0
55°	7646.7	3791.0	1915.6	1884.2	1915.6	1768.9	1699.1	1639.7	1587.3	1533.2	1522.7
57.5°	7814.3	3536.1	1770.7	1763.7	1796.9	1631.0	1573.3	1498.3	1423.2	1379.5	1379.5
60°	6562.3	2577.4	1515.7	1533.2	1608.3	1519.2	1468.6	1391.7	1309.7	1271.2	1271.2
62.5°	3880.1	1617.0	1257.3	1238.1	1285.2	1341.1	1369.0	1306.2	1208.4	1157.7	1159.5
65°	1709.5	1177.0	1108.8	1093.1	1079.2	1117.6	1194.4	1199.7	1096.6	1037.3	1039.0
67.5°	1053.0	1065.2	1037.3	1025.0	1012.8	1005.8	998.8	1002.3	974.4	920.3	918.5
70°	949.9	983.1	963.9	953.4	937.7	925.5	883.6	815.5	768.3	754.4	770.1
72.5°	817.2	862.6	852.2	846.9	827.7	798.0	742.1	675.8	619.9	585.0	592.0
75°	616.4	653.1	658.3	660.1	639.1	611.2	553.6	497.7	448.8	412.1	420.8
77.5°	354.5	375.4	380.7	385.9	370.2	359.7	321.3	281.1	254.9	216.5	227.0
80°	197.3	206.1	206.1	207.8	199.1	186.8	160.7	138.0	125.7	108.3	110.0
82.5°	118.7	122.2	124.0	125.7	120.5	108.3	89.1	73.3	66.4	57.6	55.9
85°	57.6	61.1	61.1	62.9	54.1	47.1	36.7	27.9	24.4	17.5	19.2
87.5°	14.0	15.7	15.7	14.0	12.2	8.7	5.2	1.7	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)