

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: P640528

Luminaire Tested: GWS-SA5E-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640528
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-SA5E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24336.8 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

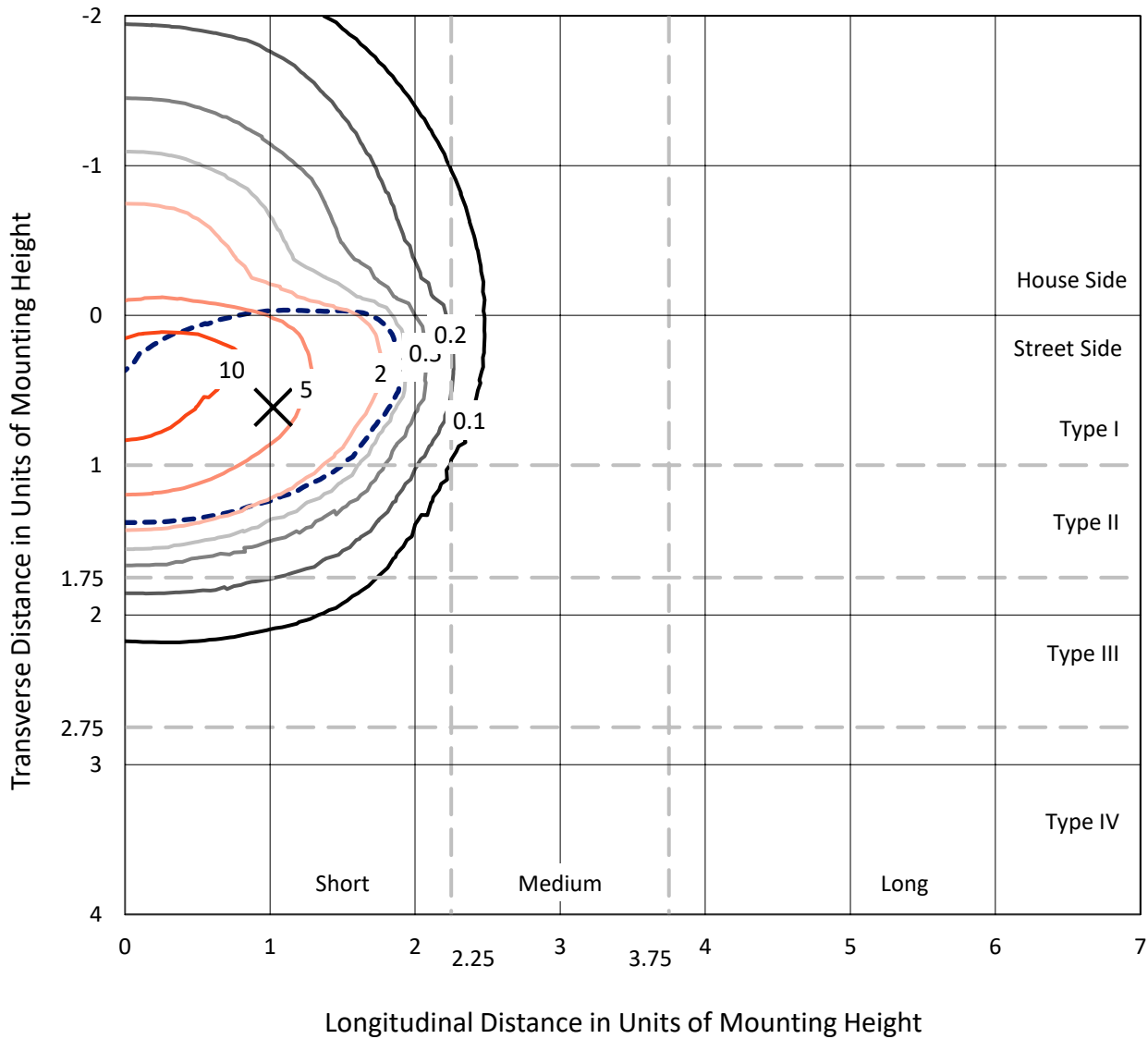
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

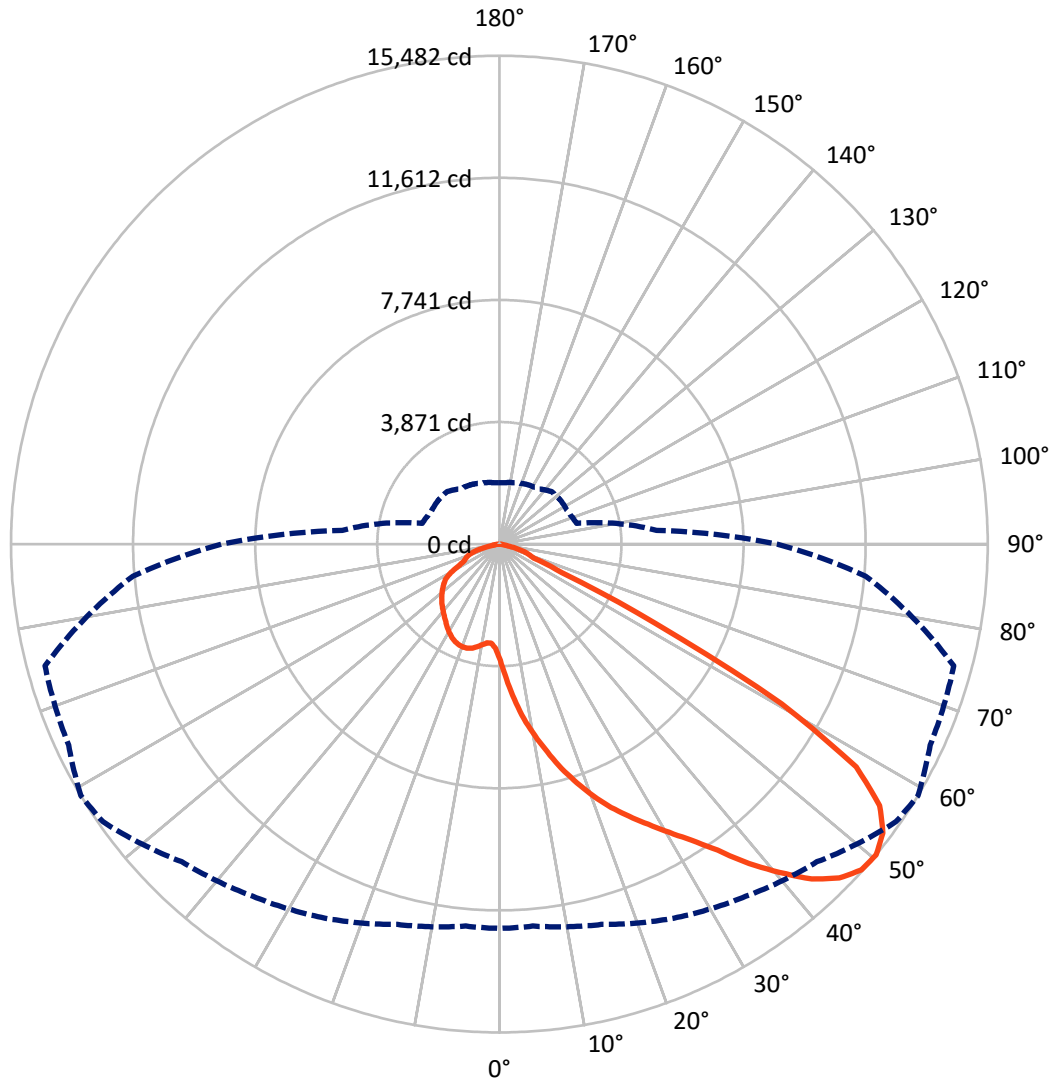
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5597.9	0.0	5597.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	18738.9	0.0	18738.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	24336.8	0.0	24336.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.7
10°-20°	1501.6	6.2
20°-30°	2843.4	11.7
30°-40°	4715.2	19.4
40°-50°	6441.3	26.5
50°-60°	5847.0	24.0
60°-70°	1947.1	8.0
70°-80°	567.9	2.3
80°-90°	59.6	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°	24336.8	100.0
0°-180°	24336.8	100.0

Coefficient of Utilization



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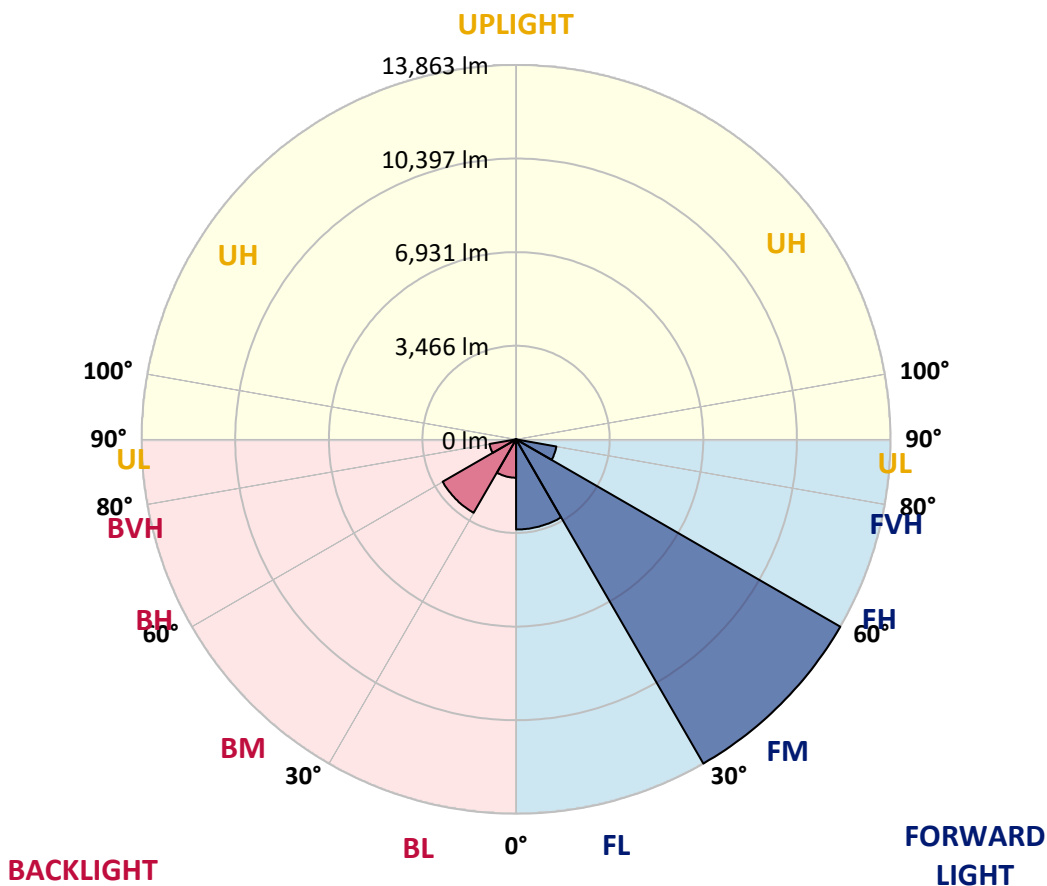
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3337.2	13.7			
FM (30°-60°)	13862.5	57.0			
FH (60°-80°)	1515.8	6.2			G1/1800
FVH (80°-90°)	23.3	0.1			G1/100
BL (0°-30°)	1421.4	5.8	B3/2500		
BM (30°-60°)	3141.0	12.9	B3/5000		
BH (60°-80°)	999.2	4.1	B2/1000		G2/1000
BVH (80°-90°)	36.3	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°	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2
2.5°	4777.5	4813.2	4757.7	4761.6	4622.9	4559.4	4381.0	4276.0	4206.6	4012.3	3835.9
5°	5740.9	5699.3	5655.7	5629.9	5509.0	5338.5	5116.5	4940.1	4777.5	4396.9	4030.1
7.5°	6331.7	6309.9	6280.1	6264.3	6145.3	5966.9	5744.9	5594.2	5358.3	4842.9	4266.0
10°	6833.2	6807.4	6789.6	6801.5	6704.4	6589.4	6347.5	6175.1	5909.4	5314.7	4551.5
12.5°	7221.8	7235.6	7241.6	7305.0	7263.4	7194.0	6944.2	6761.8	6466.5	5812.3	4886.5
15°	7529.0	7525.1	7594.4	7715.4	7782.8	7739.1	7538.9	7386.3	7025.5	6301.9	5247.3
17.5°	7600.4	7604.3	7713.4	7925.5	8145.5	8252.6	8139.6	7957.2	7600.4	6785.6	5622.0
20°	7657.9	7665.8	7778.8	8020.6	8341.8	8641.1	8659.0	8528.1	8220.9	7309.0	6002.6
22.5°	8020.6	8038.5	8068.2	8220.9	8510.3	8888.9	9097.1	9069.3	8811.6	7858.1	6412.9
25°	8974.2	8920.6	8775.9	8732.3	8843.3	9150.6	9505.4	9559.0	9432.1	8462.7	6855.0
27.5°	10151.7	10094.2	9880.1	9654.1	9414.2	9521.3	9899.9	10060.5	10062.5	9128.8	7299.1
30°	11220.2	11174.6	11000.1	10677.0	10262.7	10108.1	10387.6	10603.7	10732.5	9897.9	7804.6
32.5°	12134.1	12092.4	11856.5	11592.9	11188.5	10877.2	10978.3	11186.5	11487.8	10893.1	8433.0
35°	12903.2	12861.6	12635.6	12370.0	11995.3	11808.9	11773.3	11916.0	12306.5	11931.8	9154.6
37.5°	13527.7	13486.0	13250.1	13000.3	12714.9	12726.8	12780.3	12849.7	13073.7	13044.0	9925.7
40°	13932.1	13888.4	13719.9	13541.5	13361.1	13503.9	13769.5	13686.2	13805.2	13942.0	10635.4
42.5°	14112.5	14056.9	13959.8	13920.2	13864.7	14086.7	14598.1	14514.9	14372.1	14540.6	11162.7
45°	13932.1	13884.5	13882.5	14003.4	14132.3	14417.7	15171.0	15103.6	14742.8	14830.1	11477.9
47.5°	13379.0	13337.3	13450.3	13767.5	14084.7	14501.0	15426.8	15438.7	15006.5	14951.0	11682.1
50°	12183.6	12155.9	12482.9	13083.6	13630.7	14241.3	15345.5	15482.3	15069.9	14913.3	11656.3
52.5°	9753.2	9882.1	10593.8	11596.8	12659.4	13785.4	15044.2	15222.6	14764.6	14665.5	11517.5
55°	6676.6	6736.1	7447.7	8912.7	10597.7	12798.1	14352.3	14627.9	14403.9	14623.9	11662.2
57.5°	3457.2	3504.8	4065.8	5366.3	7188.1	10114.0	12431.4	13335.4	13676.3	14834.0	12112.2
60°	1419.4	1459.0	1691.0	2319.4	3625.7	5889.6	8946.4	10286.5	11087.4	13547.5	10756.3
62.5°	1030.8	1050.7	1161.7	1383.7	1899.1	2886.3	5063.0	5556.6	6119.6	8490.5	6829.2
65°	868.3	890.1	979.3	1114.1	1385.7	1770.3	2162.8	2174.7	2396.7	3459.2	2531.5
67.5°	727.5	747.4	826.6	941.6	1120.0	1256.8	1161.7	1163.6	1159.7	1254.8	1213.2
70°	567.0	582.8	662.1	785.0	878.2	806.8	907.9	1005.1	963.4	1001.1	1058.6
72.5°	414.3	432.2	501.5	594.7	570.9	574.9	735.5	834.6	810.8	852.4	905.9
75°	299.3	311.2	346.9	297.4	313.2	378.6	517.4	570.9	594.7	630.4	678.0
77.5°	97.1	97.1	109.0	136.8	170.5	210.1	263.7	285.5	321.1	360.8	394.5
80°	49.6	51.5	61.5	75.3	95.2	120.9	154.6	164.5	182.4	204.2	218.1
82.5°	23.8	25.8	29.7	37.7	49.6	63.4	85.2	95.2	107.0	120.9	130.8
85°	5.9	5.9	7.9	11.9	15.9	23.8	31.7	37.7	47.6	57.5	63.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	5.9	7.9	9.9	11.9	15.9
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°	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2	3687.2
2.5°	3756.6	3645.6	3502.8	3381.9	3270.9	3185.7	3112.3	3076.6	3042.9	3019.1	3027.1
5°	3859.7	3669.4	3403.7	3219.4	3106.4	3048.9	3009.2	2989.4	2985.4	2969.6	2963.6
7.5°	4010.3	3738.7	3383.9	3197.6	3122.2	3092.5	3070.7	3058.8	3064.7	3048.9	3042.9
10°	4196.7	3853.7	3433.5	3268.9	3203.5	3181.7	3157.9	3142.0	3134.1	3110.3	3106.4
12.5°	4428.6	3996.4	3522.7	3360.1	3294.7	3257.0	3225.3	3197.6	3179.7	3150.0	3142.0
15°	4678.4	4155.0	3627.7	3449.3	3372.0	3316.5	3265.0	3223.3	3191.6	3152.0	3146.0
17.5°	4950.0	4321.6	3715.0	3510.8	3411.6	3338.3	3263.0	3201.5	3157.9	3106.4	3100.4
20°	5233.4	4490.1	3780.4	3540.5	3413.6	3314.5	3213.4	3132.1	3076.6	3025.1	3021.1
22.5°	5526.8	4644.7	3820.0	3532.6	3381.9	3259.0	3138.1	3046.9	2981.5	2920.0	2916.1
25°	5822.2	4793.4	3829.9	3500.9	3318.5	3175.7	3054.8	2947.8	2874.4	2805.0	2797.1
27.5°	6121.5	4918.2	3806.1	3437.4	3233.2	3078.6	2957.7	2852.6	2777.3	2707.9	2696.0
30°	6440.7	5025.3	3754.6	3354.2	3134.1	2975.5	2856.6	2777.3	2705.9	2636.5	2624.7
32.5°	6781.7	5118.5	3681.3	3253.1	3019.1	2872.4	2785.2	2713.9	2642.5	2581.0	2569.1
35°	7188.1	5179.9	3572.2	3122.2	2912.1	2797.1	2737.6	2654.4	2567.2	2499.8	2493.8
37.5°	7608.3	5227.5	3441.4	2997.3	2818.9	2753.5	2703.9	2590.9	2481.9	2400.6	2390.7
40°	8014.7	5267.1	3278.8	2880.4	2733.7	2721.8	2654.4	2513.6	2325.3	2234.1	2226.2
42.5°	8393.3	5279.0	3108.3	2755.5	2656.4	2650.4	2575.1	2357.0	2212.3	2154.8	2146.9
45°	8653.0	5269.1	2931.9	2638.5	2579.1	2547.3	2468.0	2244.0	2154.8	2103.3	2093.4
47.5°	8845.3	5217.6	2733.7	2515.6	2491.8	2448.2	2277.7	2172.7	2089.4	2037.9	2028.0
50°	8811.6	5003.5	2533.5	2396.7	2386.8	2349.1	2139.0	2083.5	2010.1	1954.6	1946.7
52.5°	8637.2	4597.1	2329.3	2265.8	2285.7	2212.3	2039.9	1976.4	1913.0	1849.5	1835.7
55°	8680.8	4303.7	2174.7	2139.0	2174.7	2008.1	1928.8	1861.4	1802.0	1740.5	1728.6
57.5°	8871.1	4014.3	2010.1	2002.2	2039.9	1851.5	1786.1	1700.9	1615.6	1566.1	1566.1
60°	7449.7	2926.0	1720.7	1740.5	1825.8	1724.7	1667.2	1579.9	1486.8	1443.2	1443.2
62.5°	4404.8	1835.7	1427.3	1405.5	1459.0	1522.5	1554.2	1482.8	1371.8	1314.3	1316.3
65°	1940.7	1336.1	1258.8	1241.0	1225.1	1268.7	1355.9	1361.9	1244.9	1177.5	1179.5
67.5°	1195.4	1209.2	1177.5	1163.6	1149.8	1141.8	1133.9	1137.9	1106.2	1044.7	1042.7
70°	1078.4	1116.1	1094.3	1082.4	1064.5	1050.7	1003.1	925.8	872.2	856.4	874.2
72.5°	927.7	979.3	967.4	961.4	939.6	905.9	842.5	767.2	703.7	664.1	672.0
75°	699.8	741.4	747.4	749.3	725.5	693.8	628.4	565.0	509.5	467.8	477.7
77.5°	402.4	426.2	432.2	438.1	420.3	408.4	364.8	319.2	289.4	245.8	257.7
80°	224.0	233.9	233.9	235.9	226.0	212.1	182.4	156.6	142.7	122.9	124.9
82.5°	134.8	138.8	140.7	142.7	136.8	122.9	101.1	83.3	75.3	65.4	63.4
85°	65.4	69.4	69.4	71.4	61.5	53.5	41.6	31.7	27.8	19.8	21.8
87.5°	15.9	17.8	17.8	15.9	13.9	9.9	5.9	2.0	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)