

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: P638049

Luminaire Tested: GWS-SA4E-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18793.5 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

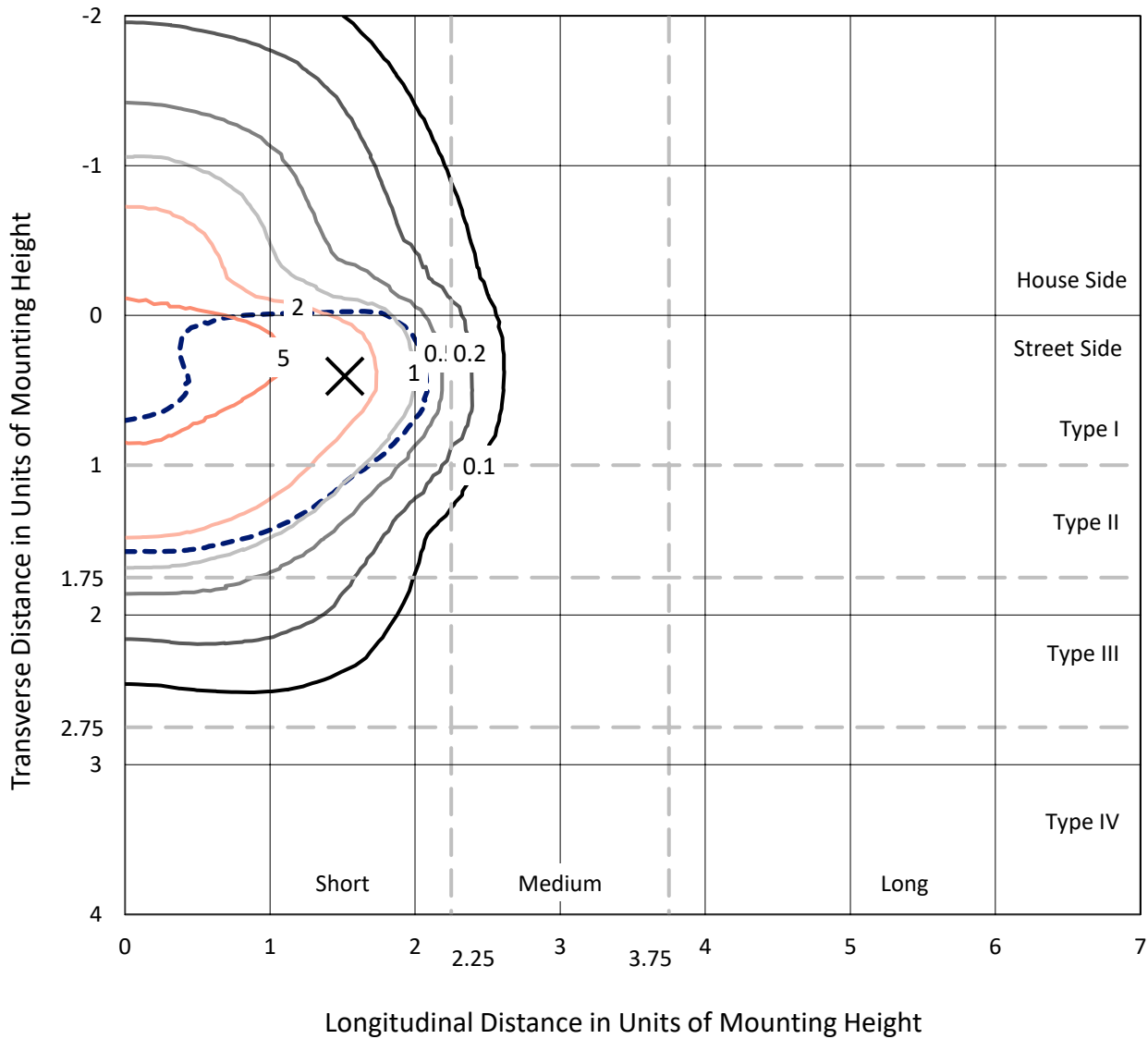
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

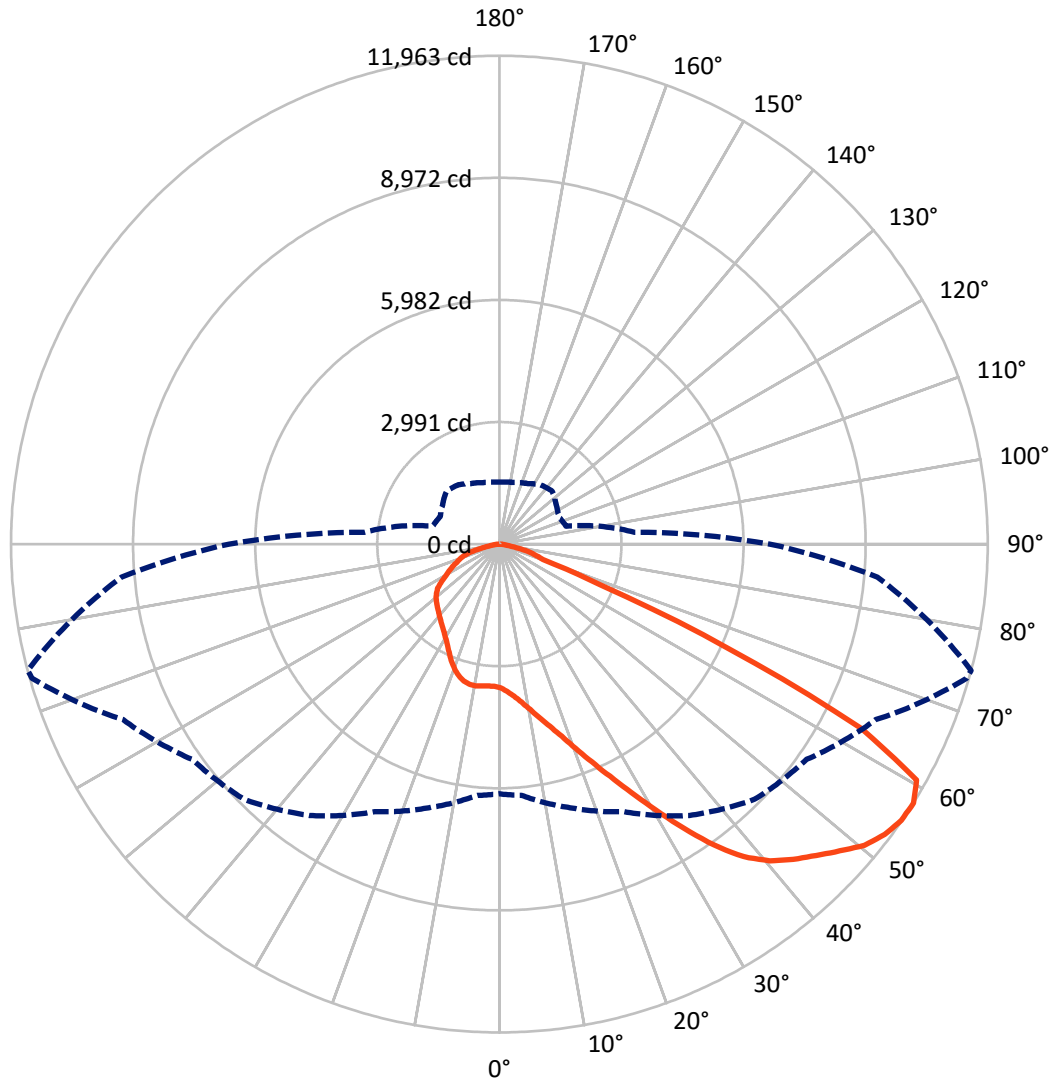
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5084.0	0.0	5084.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	13709.5	0.0	13709.5
	% Fixture	72.9	0.0	72.9
Total	Lumens	18793.5	0.0	18793.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.2	1.9
10°-20°	1121.3	6.0
20°-30°	1988.7	10.6
30°-40°	3044.3	16.2
40°-50°	4238.9	22.6
50°-60°	4857.0	25.8
60°-70°	2495.6	13.3
70°-80°	628.3	3.3
80°-90°	67.2	0.4
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°	18793.5	100.0
0°-180°	18793.5	100.0

Coefficient of Utilization



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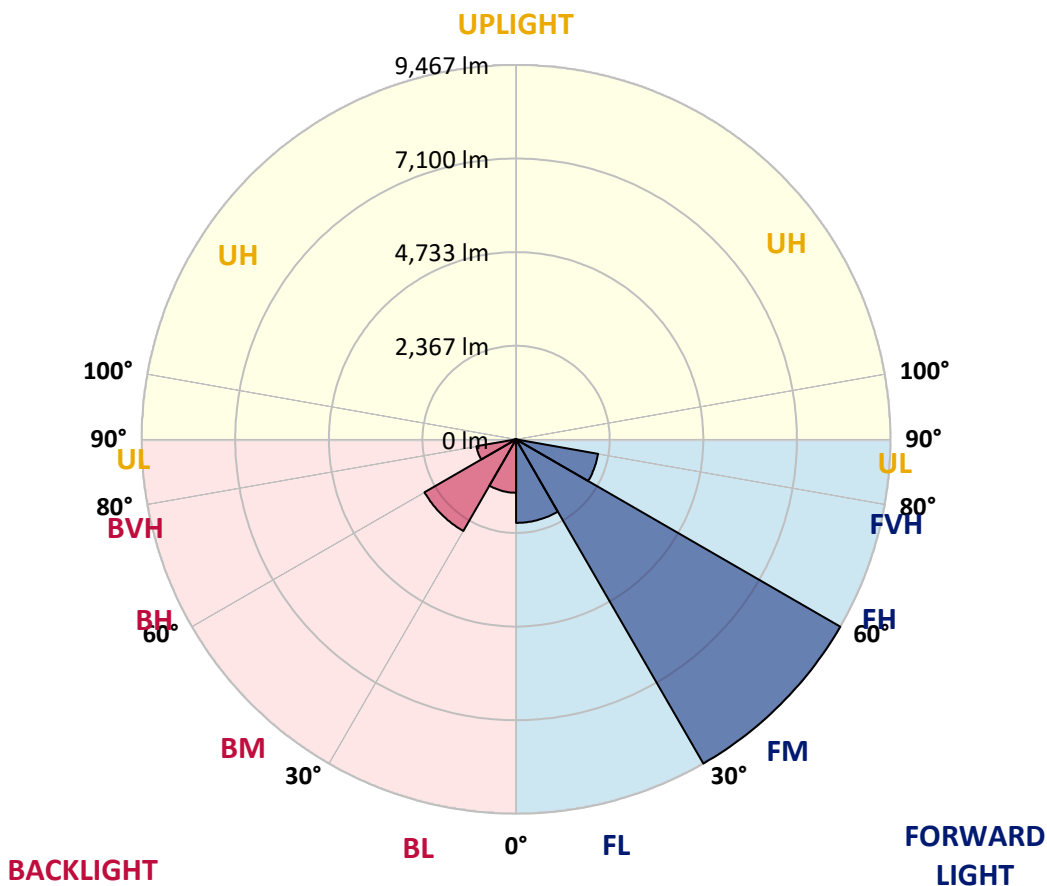
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.6	11.2			
FM (30°-60°)	9466.5	50.4			
FH (60°-80°)	2106.6	11.2			G2/5000
FVH (80°-90°)	24.9	0.1			G1/100
BL (0°-30°)	1350.6	7.2	B3/2500		
BM (30°-60°)	2673.7	14.2	B3/5000		
BH (60°-80°)	1017.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	42.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6
2.5°	3781.4	3791.1	3781.4	3797.5	3765.2	3750.7	3715.1	3661.8	3619.8	3613.3	3566.4
5°	4075.5	4096.5	4083.5	4077.1	4033.4	4001.1	3947.8	3841.1	3753.9	3741.0	3648.8
7.5°	4264.5	4279.1	4279.1	4283.9	4267.8	4230.6	4174.0	4048.0	3925.2	3905.8	3766.8
10°	4327.6	4338.9	4359.9	4400.3	4432.6	4443.9	4406.7	4285.5	4135.3	4115.9	3921.9
12.5°	4342.1	4355.0	4387.3	4461.7	4550.6	4631.4	4637.8	4548.9	4380.9	4359.9	4101.3
15°	4369.6	4382.5	4426.1	4518.2	4649.1	4804.3	4899.6	4838.2	4652.4	4629.7	4304.9
17.5°	4366.3	4380.9	4445.5	4568.3	4744.5	4969.1	5153.3	5179.2	4986.9	4948.1	4536.0
20°	4358.3	4371.2	4440.7	4591.0	4809.1	5117.8	5450.6	5584.8	5377.9	5342.4	4805.9
22.5°	4422.9	4437.4	4490.8	4615.2	4843.0	5232.5	5725.4	6048.6	5841.7	5791.6	5116.1
25°	4568.3	4589.3	4621.7	4707.3	4904.5	5334.3	6006.5	6573.7	6362.1	6302.3	5453.9
27.5°	4793.0	4818.8	4864.1	4904.5	5041.8	5463.6	6286.1	7162.0	6950.3	6887.2	5811.0
30°	5067.7	5101.6	5159.8	5187.2	5281.0	5654.3	6589.9	7767.9	7645.1	7557.9	6213.4
32.5°	5447.4	5494.3	5549.2	5557.3	5613.9	5943.5	6890.5	8369.1	8367.5	8306.1	6670.7
35°	5941.9	5992.0	6003.3	6014.6	6042.1	6341.0	7254.1	8916.9	9128.6	9057.5	7168.4
37.5°	6481.6	6554.4	6572.1	6522.0	6560.8	6819.4	7662.9	9356.4	9791.1	9715.2	7650.0
40°	7058.5	7087.6	7136.1	7056.9	7105.4	7367.2	8063.7	9637.6	10285.6	10204.8	8029.7
42.5°	7472.2	7525.5	7598.3	7569.2	7596.7	7835.8	8344.8	9773.4	10637.9	10557.1	8302.8
45°	7921.5	7937.6	7984.5	7978.0	7994.2	8217.2	8546.8	9833.1	10953.0	10880.3	8535.5
47.5°	8312.5	8336.8	8367.5	8331.9	8296.4	8441.8	8711.7	9884.9	11316.6	11229.3	8779.5
50°	8689.0	8710.1	8747.2	8643.8	8511.3	8548.5	8792.5	9956.0	11657.6	11596.2	8971.8
52.5°	8758.5	8781.2	8955.7	8976.7	8807.0	8676.1	8934.7	10112.7	11857.9	11819.2	9041.3
55°	7884.3	7924.7	8272.1	8671.3	9089.8	9047.8	9162.5	10195.1	11937.1	11946.8	9165.8
57.5°	6119.7	6177.8	6685.2	7233.1	8113.8	8842.6	9191.6	10174.1	11909.7	11963.0	9293.4
60°	4014.1	4048.0	4649.1	5263.2	6176.2	7184.6	8226.9	9796.0	11665.7	11741.6	9261.1
62.5°	2423.9	2462.7	2945.9	3411.3	3949.4	4623.3	5579.9	7873.0	9778.2	9947.9	7417.3
65°	1691.9	1743.6	2167.0	2550.0	2735.8	2596.9	2826.3	4397.0	6092.2	6163.3	4532.8
67.5°	1226.5	1262.1	1609.5	2065.2	2270.4	1834.1	1397.8	1947.2	2653.4	2679.3	1869.7
70°	803.1	843.5	1158.6	1572.3	1853.5	1486.7	1045.5	1053.6	1116.6	1129.6	1085.9
72.5°	441.2	465.4	715.9	1043.9	1095.6	888.8	816.1	875.9	919.5	919.5	930.8
75°	227.9	248.9	292.5	344.2	415.3	486.4	588.2	677.1	724.0	727.2	722.3
77.5°	116.3	124.4	156.7	169.7	185.8	216.5	281.2	360.4	402.4	418.5	415.3
80°	54.9	58.2	66.3	77.6	95.3	121.2	151.9	181.0	206.8	210.1	227.9
82.5°	29.1	32.3	35.6	42.0	51.7	64.6	88.9	106.7	122.8	126.0	140.6
85°	11.3	12.9	14.5	16.2	22.6	27.5	37.2	50.1	61.4	61.4	72.7
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.5	8.1	11.3	11.3	19.4
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°	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6	3519.6
2.5°	3555.1	3508.3	3487.3	3453.3	3425.8	3395.1	3370.9	3353.1	3341.8	3335.4	3328.9
5°	3613.3	3542.2	3485.6	3417.8	3370.9	3325.7	3288.5	3262.6	3249.7	3240.0	3233.5
7.5°	3703.8	3608.4	3501.8	3396.8	3314.3	3241.6	3194.8	3167.3	3149.5	3143.1	3138.2
10°	3828.2	3695.7	3519.6	3353.1	3230.3	3151.1	3118.8	3105.9	3107.5	3104.3	3102.7
12.5°	3968.8	3787.8	3514.7	3275.6	3139.8	3093.0	3094.6	3115.6	3139.8	3146.3	3147.9
15°	4120.7	3878.3	3467.9	3175.4	3068.7	3073.6	3115.6	3165.7	3210.9	3228.7	3231.9
17.5°	4285.5	3954.3	3382.2	3065.5	3010.5	3062.3	3139.8	3222.2	3288.5	3317.6	3325.7
20°	4469.8	4018.9	3261.0	2957.2	2955.6	3041.2	3154.4	3262.6	3346.7	3385.4	3391.9
22.5°	4665.3	4059.3	3112.3	2857.0	2899.0	3013.8	3143.1	3256.2	3345.0	3383.8	3391.9
25°	4862.4	4072.2	2949.1	2764.9	2840.9	2970.1	3088.1	3178.6	3262.6	3296.6	3303.0
27.5°	5046.7	4035.1	2794.0	2685.7	2787.5	2905.5	2984.7	3033.2	3091.3	3117.2	3122.0
30°	5234.1	3960.7	2663.1	2622.7	2727.7	2816.6	2852.2	2855.4	2878.0	2878.0	2881.3
32.5°	5423.2	3850.8	2548.4	2561.3	2653.4	2711.6	2716.4	2679.3	2651.8	2606.6	2604.9
35°	5641.3	3739.3	2454.7	2491.8	2566.2	2601.7	2587.2	2516.1	2449.8	2375.5	2372.2
37.5°	5843.3	3624.6	2375.5	2420.7	2467.6	2493.4	2459.5	2373.9	2318.9	2243.0	2231.6
40°	6009.8	3521.2	2299.5	2346.4	2369.0	2391.6	2336.7	2267.2	2275.3	2233.3	2231.6
42.5°	6106.7	3421.0	2228.4	2264.0	2278.5	2294.7	2246.2	2194.5	2238.1	2205.8	2207.4
45°	6177.8	3333.7	2163.8	2176.7	2212.3	2236.5	2191.2	2133.1	2142.8	2018.3	1989.3
47.5°	6258.6	3285.3	2102.4	2089.4	2152.5	2194.5	2125.0	2041.0	1982.8	1860.0	1848.7
50°	6344.3	3267.5	2037.7	2002.2	2078.1	2118.5	2037.7	1932.7	1856.7	1790.5	1784.0
52.5°	6373.4	3265.9	1956.9	1897.1	1973.1	2029.7	1961.8	1855.1	1764.6	1700.0	1696.8
55°	6488.1	3312.7	1853.5	1753.3	1824.4	1940.8	1890.7	1737.2	1664.4	1635.4	1632.1
57.5°	6622.2	3320.8	1690.3	1596.6	1695.1	1832.5	1769.5	1637.0	1557.8	1522.2	1519.0
60°	6567.3	3122.0	1515.8	1477.0	1585.3	1730.7	1672.5	1557.8	1465.7	1431.7	1428.5
62.5°	5004.6	2204.2	1388.1	1373.6	1467.3	1583.6	1572.3	1452.8	1365.5	1341.3	1338.0
65°	3010.5	1548.1	1265.3	1263.7	1329.9	1441.4	1456.0	1359.0	1266.9	1233.0	1233.0
67.5°	1488.3	1184.5	1126.3	1118.2	1160.3	1239.4	1300.9	1221.7	1144.1	1111.8	1106.9
70°	1052.0	1043.9	1024.5	1001.9	1010.0	1042.3	1068.2	1001.9	919.5	887.2	880.7
72.5°	909.8	911.4	898.5	880.7	874.2	851.6	829.0	780.5	730.4	696.5	699.7
75°	706.2	709.4	717.5	711.0	693.2	669.0	644.8	583.4	543.0	510.6	504.2
77.5°	412.1	428.2	454.1	447.6	450.9	416.9	407.2	347.4	310.3	287.6	282.8
80°	232.7	242.4	253.7	261.8	252.1	237.5	216.5	184.2	172.9	156.7	153.5
82.5°	140.6	150.3	155.1	161.6	158.4	139.0	122.8	101.8	92.1	84.0	82.4
85°	71.1	77.6	82.4	85.6	76.0	63.0	56.6	45.2	38.8	33.9	33.9
87.5°	17.8	19.4	22.6	19.4	17.8	8.1	6.5	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)