

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: P639809

Luminaire Tested: GWS-SA5C-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639809
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-SA5C-750-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20307.9 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

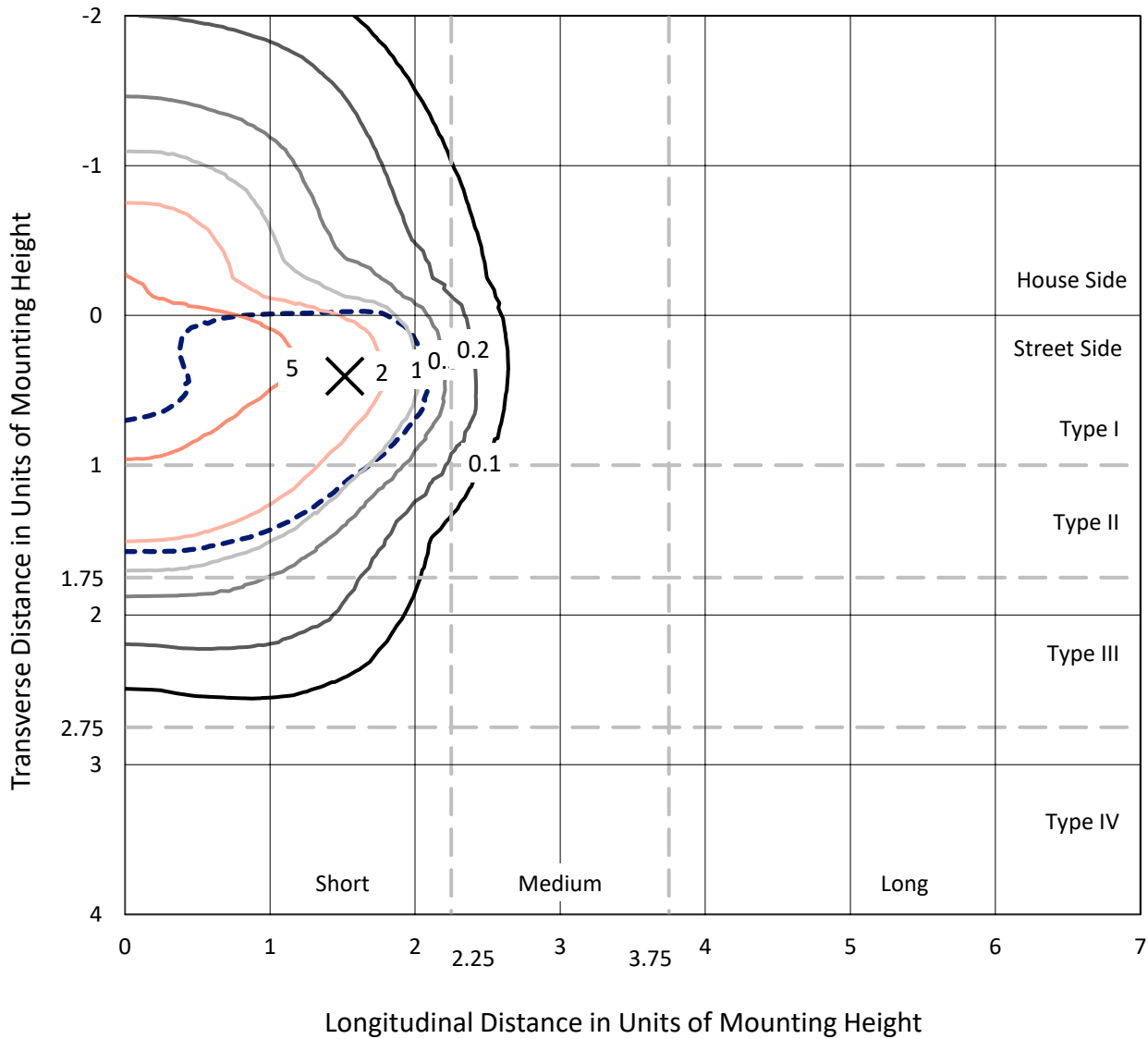
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

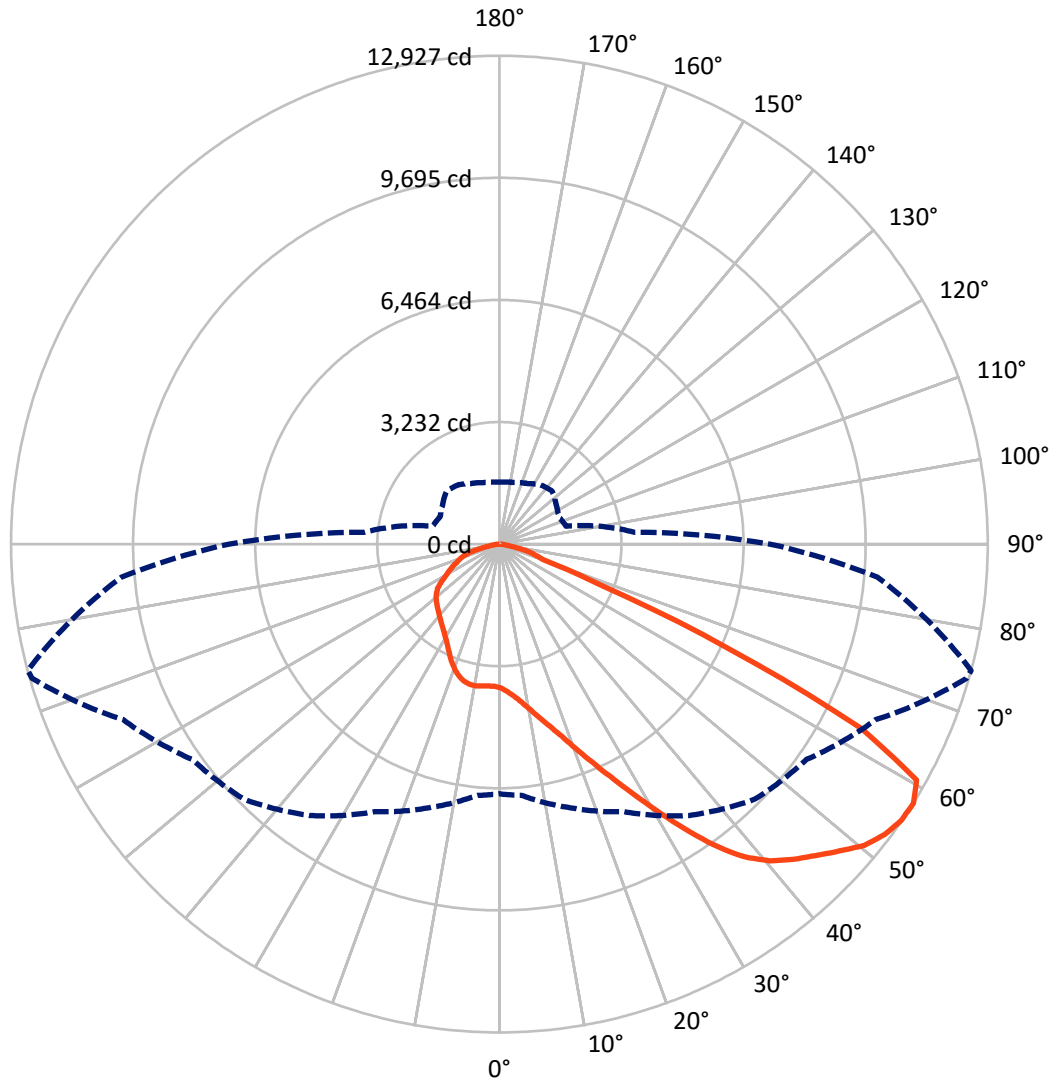
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	5493.7	0.0	5493.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	14814.2	0.0	14814.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	20307.9	0.0	20307.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	1.9
10°-20°	1211.7	6.0
20°-30°	2148.9	10.6
30°-40°	3289.6	16.2
40°-50°	4580.5	22.6
50°-60°	5248.4	25.8
60°-70°	2696.7	13.3
70°-80°	678.9	3.3
80°-90°	72.6	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°	20307.9	100.0
0°-180°	20307.9	100.0

Coefficient of Utilization



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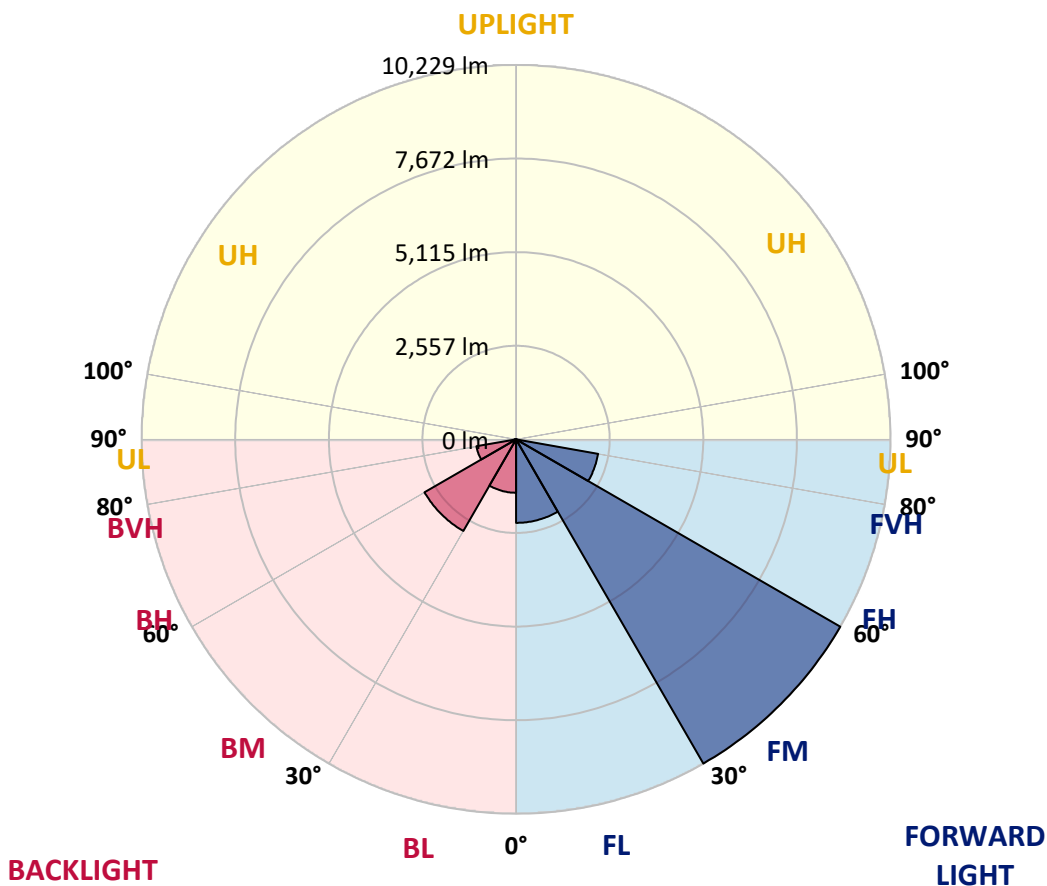
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2281.7	11.2			
FM (30°-60°)	10229.3	50.4			
FH (60°-80°)	2276.3	11.2			G2/5000
FVH (80°-90°)	26.9	0.1			G1/100
BL (0°-30°)	1459.5	7.2	B3/2500		
BM (30°-60°)	2889.2	14.2	B3/5000		
BH (60°-80°)	1099.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.7	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°	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2
2.5°	4086.1	4096.5	4086.1	4103.5	4068.6	4052.9	4014.5	3956.8	3911.4	3904.5	3853.8
5°	4403.9	4426.6	4412.6	4405.6	4358.5	4323.5	4265.9	4150.7	4056.4	4042.4	3942.9
7.5°	4608.2	4623.9	4623.9	4629.1	4611.7	4571.5	4510.4	4374.2	4241.5	4220.5	4070.3
10°	4676.3	4688.5	4711.2	4754.9	4789.8	4802.0	4761.8	4630.9	4468.5	4447.5	4238.0
12.5°	4692.0	4706.0	4740.9	4821.2	4917.2	5004.6	5011.5	4915.5	4733.9	4711.2	4431.8
15°	4721.7	4735.6	4782.8	4882.3	5023.8	5191.4	5294.4	5228.1	5027.3	5002.8	4651.8
17.5°	4718.2	4733.9	4803.7	4936.5	5126.8	5369.5	5568.6	5596.5	5388.7	5346.8	4901.5
20°	4709.5	4723.4	4798.5	4960.9	5196.6	5530.2	5889.9	6034.8	5811.3	5772.9	5193.1
22.5°	4779.3	4795.0	4852.6	4987.1	5233.3	5654.1	6186.7	6536.0	6312.4	6258.3	5528.4
25°	4936.5	4959.2	4994.1	5086.6	5299.7	5764.1	6490.6	7103.5	6874.7	6810.1	5893.4
27.5°	5179.2	5207.1	5256.0	5299.7	5448.1	5903.8	6792.6	7739.1	7510.3	7442.2	6279.3
30°	5476.0	5512.7	5575.6	5605.2	5706.5	6109.9	7120.9	8393.9	8261.2	8166.9	6714.1
32.5°	5886.4	5937.0	5996.4	6005.1	6066.2	6422.5	7445.7	9043.5	9041.7	8975.4	7208.2
35°	6420.7	6474.8	6487.1	6499.3	6529.0	6852.0	7838.6	9635.4	9864.2	9787.3	7746.1
37.5°	7003.9	7082.5	7101.7	7047.6	7089.5	7368.9	8280.4	10110.4	10580.1	10498.0	8266.4
40°	7627.3	7658.7	7711.1	7625.6	7678.0	7960.8	8713.4	10414.2	11114.4	11027.1	8676.8
42.5°	8074.3	8132.0	8210.5	8179.1	8208.8	8467.2	9017.3	10560.9	11495.1	11407.8	8971.9
45°	8559.8	8577.2	8627.9	8620.9	8638.4	8879.3	9235.6	10625.5	11835.6	11757.0	9223.3
47.5°	8982.4	9008.5	9041.7	9003.3	8964.9	9122.0	9413.7	10681.4	12228.5	12134.2	9487.0
50°	9389.2	9411.9	9452.1	9340.3	9197.1	9237.3	9501.0	10758.2	12596.9	12530.6	9694.8
52.5°	9464.3	9488.7	9677.3	9700.0	9516.7	9375.2	9654.6	10927.6	12813.5	12771.6	9769.9
55°	8519.6	8563.3	8938.7	9370.0	9822.3	9776.9	9900.8	11016.7	12899.0	12909.5	9904.3
57.5°	6612.8	6675.6	7224.0	7815.9	8767.6	9555.1	9932.3	10994.0	12869.4	12927.0	10042.3
60°	4337.5	4374.2	5023.8	5687.3	6673.9	7763.5	8889.8	10585.3	12605.7	12687.8	10007.4
62.5°	2619.3	2661.2	3183.3	3686.2	4267.7	4995.8	6029.6	8507.4	10566.1	10749.5	8015.0
65°	1828.3	1884.1	2341.6	2755.5	2956.3	2806.1	3054.1	4751.4	6583.1	6659.9	4898.0
67.5°	1325.4	1363.8	1739.2	2231.6	2453.4	1981.9	1510.4	2104.1	2867.2	2895.2	2020.3
70°	867.9	911.5	1252.0	1699.0	2002.9	1606.5	1129.8	1138.5	1206.6	1220.6	1173.4
72.5°	476.7	502.9	773.6	1128.0	1183.9	960.4	881.8	946.4	993.6	993.6	1005.8
75°	246.2	268.9	316.1	371.9	448.8	525.6	635.6	731.6	782.3	785.8	780.5
77.5°	125.7	134.5	169.4	183.3	200.8	234.0	303.8	389.4	434.8	452.3	448.8
80°	59.4	62.9	71.6	83.8	103.0	131.0	164.1	195.6	223.5	227.0	246.2
82.5°	31.4	34.9	38.4	45.4	55.9	69.8	96.0	115.2	132.7	136.2	151.9
85°	12.2	14.0	15.7	17.5	24.4	29.7	40.2	54.1	66.4	66.4	78.6
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	7.0	8.7	12.2	12.2	21.0
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°	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2	3803.2
2.5°	3841.6	3791.0	3768.3	3731.6	3701.9	3668.7	3642.5	3623.3	3611.1	3604.1	3597.1
5°	3904.5	3827.6	3766.5	3693.2	3642.5	3593.6	3553.5	3525.5	3511.6	3501.1	3494.1
7.5°	4002.2	3899.2	3784.0	3670.5	3581.4	3502.8	3452.2	3422.5	3403.3	3396.3	3391.1
10°	4136.7	3993.5	3803.2	3623.3	3490.6	3405.1	3370.1	3356.2	3357.9	3354.4	3352.7
12.5°	4288.6	4093.0	3797.9	3539.5	3392.8	3342.2	3343.9	3366.6	3392.8	3399.8	3401.6
15°	4452.8	4190.8	3747.3	3431.2	3316.0	3321.2	3366.6	3420.8	3469.7	3488.9	3492.4
17.5°	4630.9	4272.9	3654.8	3312.5	3253.1	3309.0	3392.8	3481.9	3553.5	3584.9	3593.6
20°	4829.9	4342.8	3523.8	3195.5	3193.8	3286.3	3408.5	3525.5	3616.3	3658.2	3665.2
22.5°	5041.2	4386.4	3363.1	3087.2	3132.6	3256.6	3396.3	3518.6	3614.6	3656.5	3665.2
25°	5254.3	4400.4	3186.8	2987.7	3069.8	3209.5	3337.0	3434.7	3525.5	3562.2	3569.2
27.5°	5453.3	4360.2	3019.1	2902.2	3012.2	3139.6	3225.2	3277.6	3340.4	3368.4	3373.6
30°	5655.9	4279.9	2877.7	2834.1	2947.6	3043.6	3082.0	3085.5	3109.9	3109.9	3113.4
32.5°	5860.2	4161.1	2753.7	2767.7	2867.2	2930.1	2935.3	2895.2	2865.5	2816.6	2814.8
35°	6095.9	4040.7	2652.4	2692.6	2772.9	2811.4	2795.6	2718.8	2647.2	2566.9	2563.4
37.5°	6314.2	3916.7	2566.9	2615.8	2666.4	2694.4	2657.7	2565.1	2505.8	2423.7	2411.5
40°	6494.0	3804.9	2484.8	2535.5	2559.9	2584.3	2525.0	2449.9	2458.6	2413.2	2411.5
42.5°	6598.8	3696.7	2408.0	2446.4	2462.1	2479.6	2427.2	2371.3	2418.5	2383.5	2385.3
45°	6675.6	3602.4	2338.1	2352.1	2390.5	2416.7	2367.8	2305.0	2315.4	2181.0	2149.5
47.5°	6763.0	3550.0	2271.8	2257.8	2325.9	2371.3	2296.2	2205.4	2142.6	2009.9	1997.6
50°	6855.5	3530.8	2201.9	2163.5	2245.6	2289.2	2201.9	2088.4	2006.4	1934.8	1927.8
52.5°	6886.9	3529.0	2114.6	2050.0	2132.1	2193.2	2119.9	2004.6	1906.8	1837.0	1833.5
55°	7010.9	3579.7	2002.9	1894.6	1971.4	2097.2	2043.0	1877.1	1798.6	1767.1	1763.6
57.5°	7155.8	3588.4	1826.5	1725.2	1831.7	1980.2	1912.1	1768.9	1683.3	1644.9	1641.4
60°	7096.5	3373.6	1637.9	1596.0	1713.0	1870.2	1807.3	1683.3	1583.8	1547.1	1543.6
62.5°	5407.9	2381.8	1500.0	1484.3	1585.5	1711.3	1699.0	1569.8	1475.5	1449.3	1445.8
65°	3253.1	1672.8	1367.3	1365.5	1437.1	1557.6	1573.3	1468.5	1369.0	1332.3	1332.3
67.5°	1608.2	1280.0	1217.1	1208.4	1253.8	1339.3	1405.7	1320.1	1236.3	1201.4	1196.1
70°	1136.8	1128.0	1107.1	1082.6	1091.4	1126.3	1154.2	1082.6	993.6	958.7	951.7
72.5°	983.1	984.8	970.9	951.7	944.7	920.2	895.8	843.4	789.3	752.6	756.1
75°	763.1	766.6	775.3	768.3	749.1	722.9	696.7	630.4	586.7	551.8	544.8
77.5°	445.3	462.7	490.7	483.7	487.2	450.5	440.0	375.4	335.3	310.8	305.6
80°	251.5	261.9	274.2	282.9	272.4	256.7	234.0	199.1	186.8	169.4	165.9
82.5°	151.9	162.4	167.6	174.6	171.1	150.2	132.7	110.0	99.5	90.8	89.1
85°	76.8	83.8	89.1	92.5	82.1	68.1	61.1	48.9	41.9	36.7	36.7
87.5°	19.2	21.0	24.4	21.0	19.2	8.7	7.0	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)