

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: P640968

Luminaire Tested: GWS-SA5E-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640968
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26246.3 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

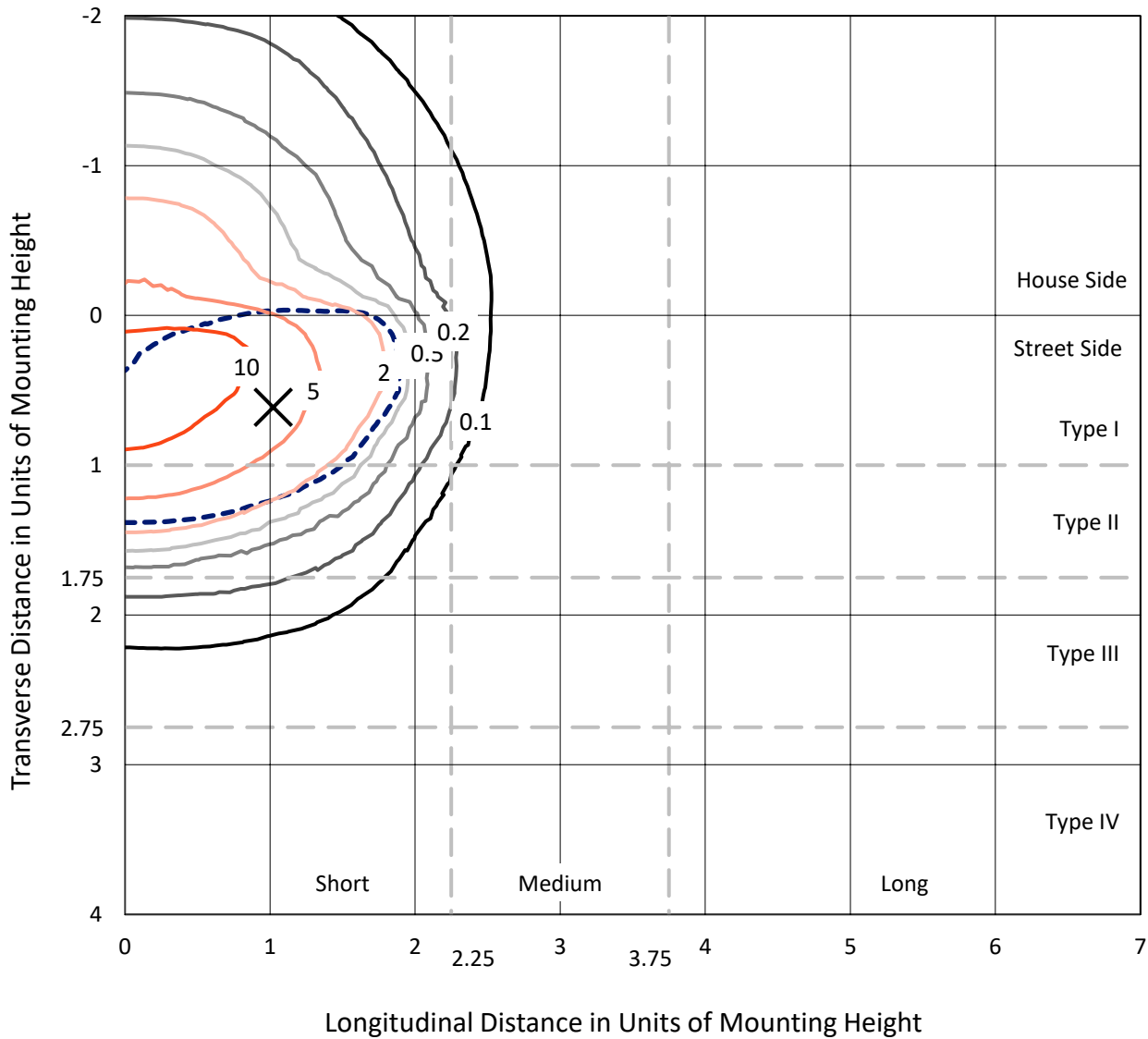
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640968
 CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

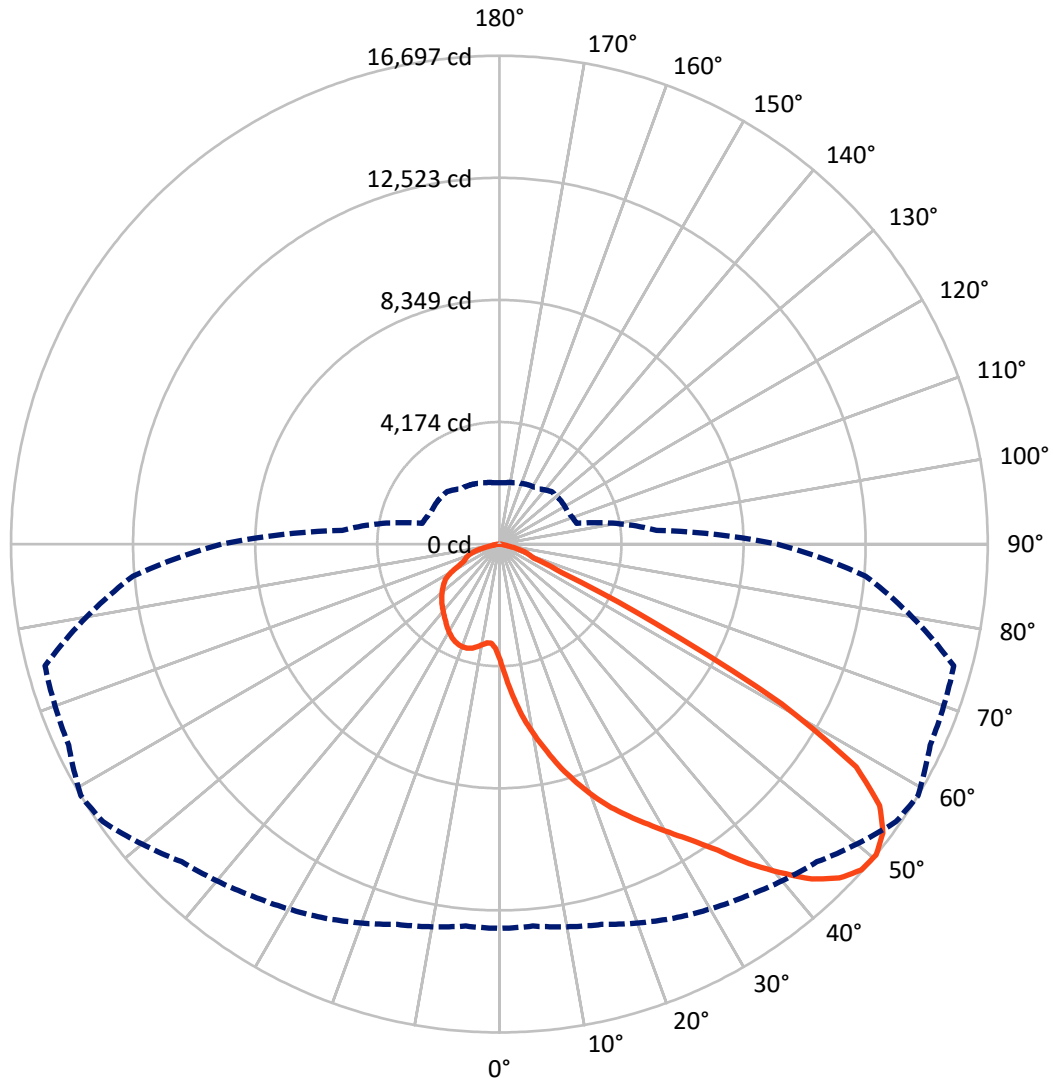
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

REPORT NUMBER: P640968
CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640968

CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6037.1	0.0	6037.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20209.1	0.0	20209.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	26246.3	0.0	26246.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.1	1.7
10°-20°	1619.4	6.2
20°-30°	3066.5	11.7
30°-40°	5085.2	19.4
40°-50°	6946.7	26.5
50°-60°	6305.8	24.0
60°-70°	2099.9	8.0
70°-80°	612.5	2.3
80°-90°	64.3	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°	26246.3	100.0
0°-180°	26246.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640968

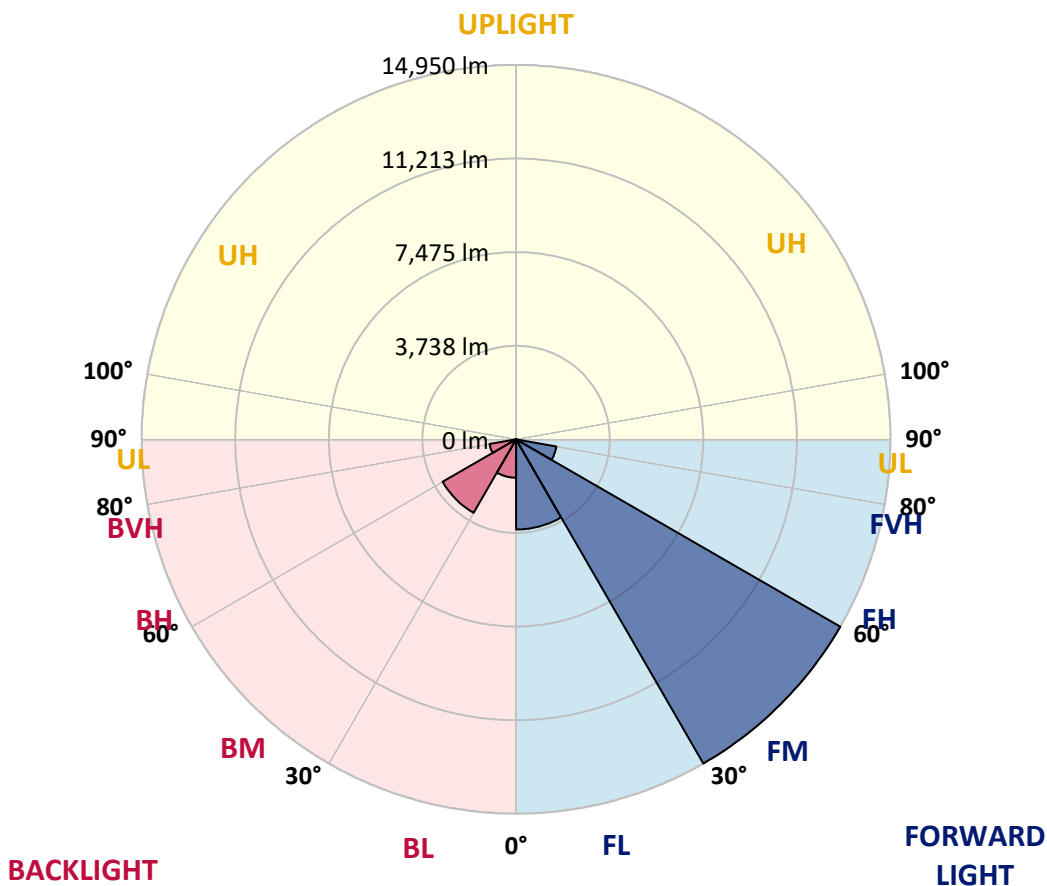
CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3599.0	13.7			
FM (30°-60°)	14950.2	57.0			
FH (60°-80°)	1634.8	6.2			G1/1800
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	1533.0	5.8	B3/2500		
BM (30°-60°)	3387.4	12.9	B3/5000		
BH (60°-80°)	1077.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	39.2	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-G3

Type II Short





REPORT NUMBER: P640968

CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5
2.5°	5152.3	5190.8	5131.0	5135.2	4985.6	4917.2	4724.8	4611.5	4536.6	4327.1	4136.8
5°	6191.4	6146.5	6099.4	6071.6	5941.2	5757.4	5517.9	5327.7	5152.3	4741.9	4346.4
7.5°	6828.5	6804.9	6772.9	6755.8	6627.5	6435.1	6195.6	6033.2	5778.8	5222.9	4600.8
10°	7369.4	7341.6	7322.3	7335.1	7230.4	7106.4	6845.6	6659.6	6373.1	5731.7	4908.6
12.5°	7788.4	7803.3	7809.8	7878.2	7833.3	7758.5	7489.1	7292.4	6973.8	6268.3	5269.9
15°	8119.8	8115.5	8190.3	8320.7	8393.4	8346.4	8130.4	7965.8	7576.7	6796.4	5659.0
17.5°	8196.7	8201.0	8318.6	8547.3	8784.6	8900.1	8778.2	8581.5	8196.7	7318.0	6063.1
20°	8258.7	8267.3	8389.1	8650.0	8996.3	9319.1	9338.4	9197.3	8865.9	7882.4	6473.6
22.5°	8650.0	8669.2	8701.3	8865.9	9178.0	9586.4	9810.8	9780.9	9503.0	8474.6	6916.1
25°	9678.3	9620.6	9464.5	9417.5	9537.2	9868.6	10251.2	10309.0	10172.1	9126.7	7392.9
27.5°	10948.2	10886.2	10655.3	10411.6	10152.9	10268.3	10676.7	10849.9	10852.0	9845.0	7871.8
30°	12100.5	12051.4	11863.2	11514.7	11067.9	10901.2	11202.6	11435.6	11574.6	10674.6	8416.9
32.5°	13086.1	13041.2	12786.8	12502.5	12066.3	11730.7	11839.7	12064.2	12389.1	11747.8	9094.6
35°	13915.6	13870.7	13627.0	13340.5	12936.5	12735.5	12697.0	12850.9	13272.1	12868.0	9872.8
37.5°	14589.1	14544.2	14289.7	14020.4	13712.5	13725.3	13783.1	13857.9	14099.5	14067.4	10704.5
40°	15025.2	14978.2	14796.4	14604.0	14409.5	14563.4	14849.9	14760.1	14888.4	15035.9	11469.9
42.5°	15219.7	15159.9	15055.1	15012.4	14952.5	15191.9	15743.5	15653.7	15499.8	15681.5	12038.5
45°	15025.2	14973.9	14971.7	15102.1	15241.1	15549.0	16361.4	16288.7	15899.6	15993.7	12378.5
47.5°	14428.7	14383.8	14505.7	14847.7	15189.8	15638.8	16637.2	16650.0	16183.9	16124.1	12598.7
50°	13139.6	13109.6	13462.4	14110.2	14700.2	15358.7	16549.5	16697.0	16252.3	16083.4	12570.9
52.5°	10518.5	10657.4	11425.0	12506.7	13652.7	14867.0	16224.5	16417.0	15923.1	15816.2	12421.2
55°	7200.5	7264.6	8032.1	9612.0	11429.2	13802.3	15478.4	15775.6	15534.0	15771.3	12577.3
57.5°	3728.5	3779.8	4384.8	5787.3	7752.0	10907.6	13406.8	14381.7	14749.4	15997.9	13062.6
60°	1530.7	1573.5	1823.6	2501.3	3910.2	6351.7	9648.4	11093.6	11957.3	14610.4	11600.3
62.5°	1111.7	1133.1	1252.8	1492.3	2048.1	3112.8	5460.2	5992.5	6599.7	9156.6	7365.1
65°	936.4	959.9	1056.1	1201.5	1494.4	1909.1	2332.5	2345.3	2584.7	3730.6	2730.1
67.5°	784.6	806.0	891.5	1015.5	1207.9	1355.4	1252.8	1254.9	1250.7	1353.3	1308.4
70°	611.4	628.5	714.1	846.6	947.1	870.1	979.2	1083.9	1039.0	1079.6	1141.6
72.5°	446.8	466.1	540.9	641.4	615.7	620.0	793.2	900.1	874.4	919.3	977.0
75°	322.8	335.7	374.1	320.7	337.8	408.3	558.0	615.7	641.4	679.9	731.2
77.5°	104.8	104.8	117.6	147.5	183.9	226.6	284.3	307.9	346.3	389.1	425.4
80°	53.4	55.6	66.3	81.2	102.6	130.4	166.8	177.4	196.7	220.2	235.2
82.5°	25.7	27.8	32.1	40.6	53.4	68.4	91.9	102.6	115.4	130.4	141.1
85°	6.4	6.4	8.6	12.8	17.1	25.7	34.2	40.6	51.3	62.0	68.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	6.4	8.6	10.7	12.8	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640968

CATALOG NUMBER: GWS-SA5E-830-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5	3976.5
2.5°	4051.3	3931.6	3777.7	3647.3	3527.5	3435.6	3356.5	3318.0	3281.7	3256.0	3264.6
5°	4162.5	3957.3	3670.8	3472.0	3350.1	3288.1	3245.3	3224.0	3219.7	3202.6	3196.2
7.5°	4325.0	4032.1	3649.4	3448.4	3367.2	3335.1	3311.6	3298.8	3305.2	3288.1	3281.7
10°	4525.9	4156.1	3702.8	3525.4	3454.9	3431.3	3405.7	3388.6	3380.0	3354.4	3350.1
12.5°	4776.1	4310.0	3799.1	3623.7	3553.2	3512.6	3478.4	3448.4	3429.2	3397.1	3388.6
15°	5045.5	4481.0	3912.4	3720.0	3636.6	3576.7	3521.1	3476.2	3442.0	3399.3	3392.9
17.5°	5338.3	4660.6	4006.4	3786.2	3679.3	3600.2	3519.0	3452.7	3405.7	3350.1	3343.7
20°	5644.1	4842.4	4077.0	3818.3	3681.5	3574.6	3465.5	3377.9	3318.0	3262.4	3258.2
22.5°	5960.5	5009.1	4119.7	3809.7	3647.3	3514.7	3384.3	3286.0	3215.4	3149.1	3144.9
25°	6279.0	5169.5	4130.4	3775.5	3578.9	3424.9	3294.5	3179.1	3100.0	3025.1	3016.6
27.5°	6601.8	5304.1	4104.8	3707.1	3486.9	3320.2	3189.8	3076.4	2995.2	2920.4	2907.5
30°	6946.0	5419.6	4049.2	3617.3	3380.0	3209.0	3080.7	2995.2	2918.2	2843.4	2830.6
32.5°	7313.8	5520.1	3970.1	3508.3	3256.0	3097.8	3003.8	2926.8	2849.8	2783.6	2770.7
35°	7752.0	5586.3	3852.5	3367.2	3140.6	3016.6	2952.4	2862.7	2768.6	2695.9	2689.5
37.5°	8205.3	5637.7	3711.4	3232.5	3040.1	2969.5	2916.1	2794.2	2676.7	2589.0	2578.3
40°	8643.5	5680.4	3536.1	3106.4	2948.2	2935.3	2862.7	2710.9	2507.8	2409.4	2400.9
42.5°	9051.9	5693.2	3352.2	2971.7	2864.8	2858.4	2777.1	2542.0	2385.9	2323.9	2315.3
45°	9331.9	5682.5	3162.0	2845.5	2781.4	2747.2	2661.7	2420.1	2323.9	2268.3	2257.6
47.5°	9539.3	5627.0	2948.2	2713.0	2687.3	2640.3	2456.5	2343.1	2253.4	2197.8	2187.1
50°	9503.0	5396.1	2732.2	2584.7	2574.0	2533.4	2306.8	2246.9	2167.8	2108.0	2099.4
52.5°	9314.8	4957.8	2512.0	2443.6	2465.0	2385.9	2199.9	2131.5	2063.1	1994.7	1979.7
55°	9361.9	4641.4	2345.3	2306.8	2345.3	2165.7	2080.2	2007.5	1943.4	1877.1	1864.3
57.5°	9567.1	4329.3	2167.8	2159.3	2199.9	1996.8	1926.3	1834.3	1742.4	1688.9	1688.9
60°	8034.2	3155.5	1855.7	1877.1	1969.0	1860.0	1798.0	1703.9	1603.4	1556.4	1556.4
62.5°	4750.4	1979.7	1539.3	1515.8	1573.5	1641.9	1676.1	1599.2	1479.4	1417.4	1419.6
65°	2093.0	1440.9	1357.6	1338.3	1321.2	1368.3	1462.3	1468.7	1342.6	1269.9	1272.1
67.5°	1289.2	1304.1	1269.9	1254.9	1240.0	1231.4	1222.9	1227.2	1193.0	1126.7	1124.5
70°	1163.0	1203.6	1180.1	1167.3	1148.1	1133.1	1081.8	998.4	940.7	923.6	942.8
72.5°	1000.5	1056.1	1043.3	1036.9	1013.4	977.0	908.6	827.4	759.0	716.2	724.7
75°	754.7	799.6	806.0	808.1	782.5	748.3	677.7	609.3	549.4	504.5	515.2
77.5°	434.0	459.6	466.1	472.5	453.2	440.4	393.4	344.2	312.1	265.1	277.9
80°	241.6	252.3	252.3	254.4	243.7	228.8	196.7	168.9	153.9	132.6	134.7
82.5°	145.4	149.7	151.8	153.9	147.5	132.6	109.0	89.8	81.2	70.6	68.4
85°	70.6	74.8	74.8	77.0	66.3	57.7	44.9	34.2	29.9	21.4	23.5
87.5°	17.1	19.2	19.2	17.1	15.0	10.7	6.4	2.1	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)