

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: P638383

Luminaire Tested: GWS-SA4E-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638383
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-SA4E-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27173.1 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

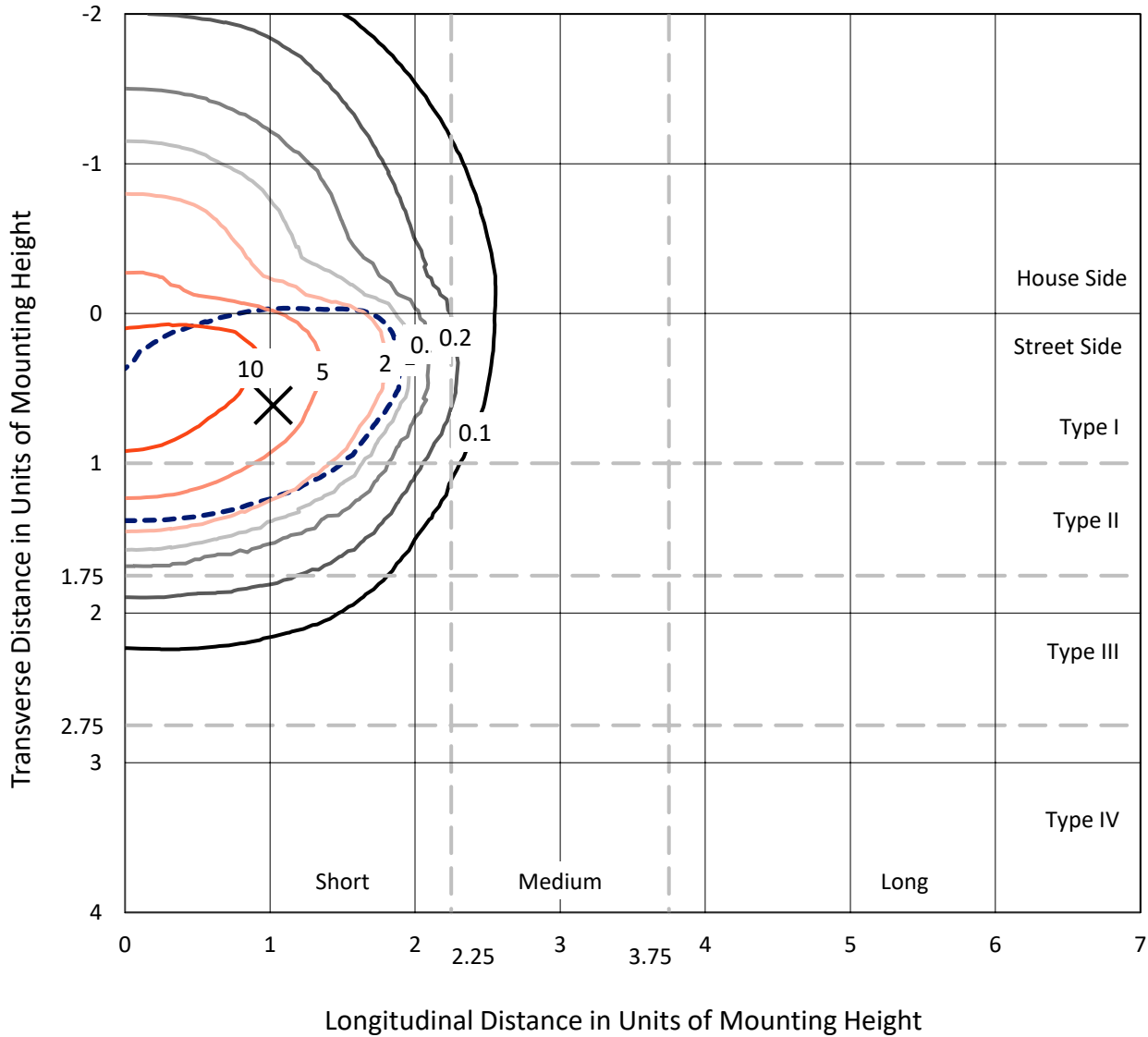
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638383
 CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

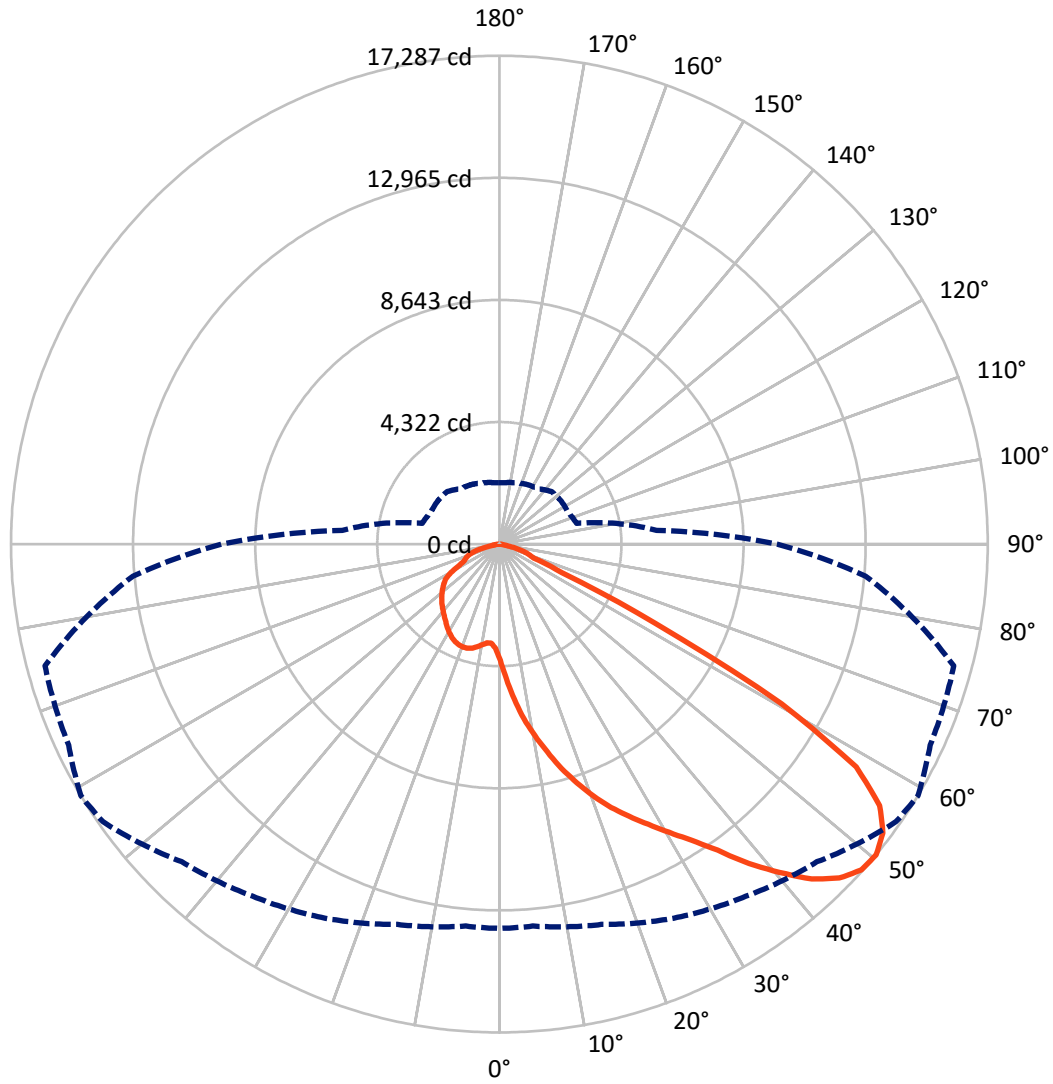
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

REPORT NUMBER: P638383
CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638383

CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6250.3	0.0	6250.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20922.8	0.0	20922.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	27173.1	0.0	27173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	1.7
10°-20°	1676.6	6.2
20°-30°	3174.8	11.7
30°-40°	5264.8	19.4
40°-50°	7192.0	26.5
50°-60°	6528.4	24.0
60°-70°	2174.0	8.0
70°-80°	634.1	2.3
80°-90°	66.6	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°	27173.1	100.0
0°-180°	27173.1	100.0

Coefficient of Utilization



REPORT NUMBER: P638383

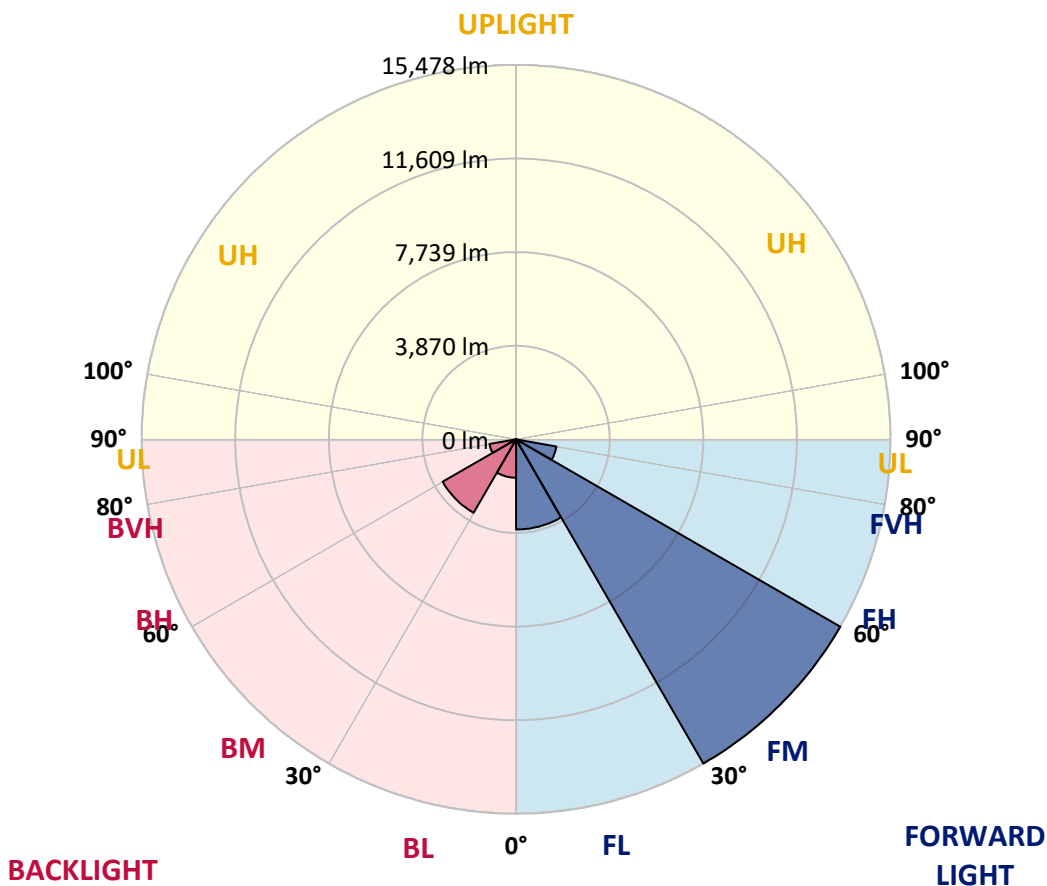
CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3726.1	13.7			
FM (30°-60°)	15478.1	57.0			
FH (60°-80°)	1692.5	6.2			G1/1800
FVH (80°-90°)	26.0	0.1			G1/100
BL (0°-30°)	1587.1	5.8	B3/2500		
BM (30°-60°)	3507.0	12.9	B3/5000		
BH (60°-80°)	1115.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	40.6	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: P638383

CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9
2.5°	5334.3	5374.1	5312.2	5316.6	5161.6	5090.8	4891.6	4774.3	4696.8	4479.9	4282.9
5°	6410.0	6363.5	6314.8	6286.0	6151.0	5960.7	5712.8	5515.8	5334.3	4909.3	4499.8
7.5°	7069.6	7045.2	7012.0	6994.3	6861.5	6662.3	6414.4	6246.2	5982.8	5407.3	4763.2
10°	7629.6	7600.8	7580.9	7594.2	7485.7	7357.3	7087.3	6894.7	6598.1	5934.1	5082.0
12.5°	8063.4	8078.9	8085.5	8156.4	8109.9	8032.4	7753.5	7549.9	7220.1	6489.7	5456.0
15°	8406.5	8402.1	8479.5	8614.5	8689.8	8641.1	8417.5	8247.1	7844.3	7036.4	5858.9
17.5°	8486.2	8490.6	8612.3	8849.2	9094.8	9214.4	9088.2	8884.6	8486.2	7576.5	6277.2
20°	8550.3	8559.2	8685.4	8955.4	9314.0	9648.2	9668.1	9522.0	9179.0	8160.8	6702.2
22.5°	8955.4	8975.3	9008.5	9179.0	9502.1	9924.9	10157.3	10126.3	9838.5	8773.9	7160.3
25°	10020.0	9960.3	9798.7	9750.0	9874.0	10217.0	10613.2	10673.0	10531.3	9449.0	7653.9
27.5°	11334.8	11270.6	11031.6	10779.2	10511.4	10630.9	11053.7	11233.0	11235.2	10192.7	8149.7
30°	12527.8	12476.9	12282.1	11921.4	11458.8	11286.1	11598.2	11839.5	11983.3	11051.5	8714.1
32.5°	13548.2	13501.7	13238.3	12943.9	12492.4	12144.9	12257.8	12490.2	12826.6	12162.6	9415.8
35°	14407.0	14360.5	14108.2	13811.6	13393.3	13185.2	13145.4	13304.7	13740.8	13322.4	10221.5
37.5°	15104.2	15057.7	14794.3	14515.5	14196.7	14210.0	14269.8	14347.2	14597.3	14564.1	11082.5
40°	15555.7	15507.1	15318.9	15119.7	14918.3	15077.7	15374.2	15281.3	15414.1	15566.8	11874.9
42.5°	15757.2	15695.2	15586.7	15542.5	15480.5	15728.4	16299.4	16206.5	16047.1	16235.3	12463.6
45°	15555.7	15502.6	15500.4	15635.4	15779.3	16098.0	16939.1	16863.9	16461.0	16558.4	12815.6
47.5°	14938.2	14891.7	15017.9	15372.0	15726.2	16191.0	17224.6	17237.9	16755.4	16693.4	13043.5
50°	13603.5	13572.5	13937.8	14608.4	15219.3	15901.0	17133.9	17286.6	16826.2	16651.4	13014.8
52.5°	10889.9	11033.8	11828.4	12948.4	14134.7	15392.0	16797.5	16996.7	16485.4	16374.7	12859.8
55°	7454.7	7521.1	8315.7	9951.4	11832.8	14289.7	16025.0	16332.7	16082.5	16328.2	13021.4
57.5°	3860.2	3913.3	4539.7	5991.7	8025.8	11292.7	13880.2	14889.5	15270.2	16562.8	13523.9
60°	1584.8	1629.1	1888.0	2589.7	4048.3	6576.0	9989.1	11485.3	12379.5	15126.3	12009.9
62.5°	1151.0	1173.1	1297.1	1545.0	2120.4	3222.7	5653.0	6204.1	6832.8	9480.0	7625.1
65°	969.5	993.8	1093.4	1243.9	1547.2	1976.6	2414.8	2428.1	2676.0	3862.4	2826.5
67.5°	812.3	834.5	923.0	1051.4	1250.6	1403.3	1297.1	1299.3	1294.8	1401.1	1354.6
70°	633.0	650.7	739.3	876.5	980.5	900.9	1013.7	1122.2	1075.7	1117.8	1182.0
72.5°	462.6	482.5	560.0	664.0	637.5	641.9	821.2	931.8	905.3	951.8	1011.5
75°	334.2	347.5	387.3	332.0	349.7	422.8	577.7	637.5	664.0	703.9	757.0
77.5°	108.5	108.5	121.7	152.7	190.4	234.6	294.4	318.7	358.6	402.8	440.5
80°	55.3	57.5	68.6	84.1	106.2	135.0	172.6	183.7	203.6	228.0	243.5
82.5°	26.6	28.8	33.2	42.1	55.3	70.8	95.2	106.2	119.5	135.0	146.1
85°	6.6	6.6	8.9	13.3	17.7	26.6	35.4	42.1	53.1	64.2	70.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.9	11.1	13.3	17.7
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: P638383

CATALOG NUMBER: GWS-SA4E-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9	4116.9
2.5°	4194.4	4070.4	3911.1	3776.1	3652.1	3556.9	3475.0	3435.2	3397.6	3371.0	3379.9
5°	4309.5	4097.0	3800.4	3594.6	3468.4	3404.2	3359.9	3337.8	3333.4	3315.7	3309.0
7.5°	4477.7	4174.5	3778.3	3570.2	3486.1	3452.9	3428.6	3415.3	3421.9	3404.2	3397.6
10°	4685.8	4302.8	3833.6	3649.9	3576.8	3552.5	3525.9	3508.2	3499.4	3472.8	3468.4
12.5°	4944.7	4462.2	3933.2	3751.7	3678.7	3636.6	3601.2	3570.2	3550.3	3517.1	3508.2
15°	5223.6	4639.3	4050.5	3851.3	3765.0	3703.0	3645.5	3599.0	3563.6	3519.3	3512.7
17.5°	5526.9	4825.2	4147.9	3919.9	3809.3	3727.4	3643.3	3574.6	3525.9	3468.4	3461.8
20°	5843.4	5013.3	4220.9	3953.1	3811.5	3700.8	3587.9	3497.2	3435.2	3377.6	3373.2
22.5°	6170.9	5186.0	4265.2	3944.3	3776.1	3638.8	3503.8	3402.0	3328.9	3260.3	3255.9
25°	6500.7	5352.0	4276.3	3908.9	3705.2	3545.9	3410.8	3291.3	3209.4	3132.0	3123.1
27.5°	6835.0	5491.4	4249.7	3838.0	3610.0	3437.4	3302.4	3185.1	3101.0	3023.5	3010.2
30°	7191.3	5611.0	4192.2	3745.1	3499.4	3322.3	3189.5	3101.0	3021.3	2943.8	2930.5
32.5°	7572.0	5715.0	4110.3	3632.2	3371.0	3207.2	3109.8	3030.1	2950.5	2881.8	2868.6
35°	8025.8	5783.6	3988.5	3486.1	3251.5	3123.1	3056.7	2963.7	2866.3	2791.1	2784.5
37.5°	8495.0	5836.7	3842.5	3346.7	3147.4	3074.4	3019.1	2892.9	2771.2	2680.4	2669.4
40°	8948.8	5881.0	3661.0	3216.1	3052.3	3039.0	2963.7	2806.6	2596.3	2494.5	2485.6
42.5°	9371.5	5894.3	3470.6	3076.6	2966.0	2959.3	2875.2	2631.7	2470.2	2406.0	2397.1
45°	9661.5	5883.2	3273.6	2946.0	2879.6	2844.2	2755.7	2505.6	2406.0	2348.4	2337.3
47.5°	9876.2	5825.7	3052.3	2808.8	2782.2	2733.5	2543.2	2425.9	2332.9	2275.4	2264.3
50°	9838.5	5586.6	2828.7	2676.0	2664.9	2622.9	2388.3	2326.3	2244.4	2182.4	2173.6
52.5°	9643.8	5132.9	2600.7	2529.9	2552.0	2470.2	2277.6	2206.8	2135.9	2065.1	2049.6
55°	9692.5	4805.3	2428.1	2388.3	2428.1	2242.2	2153.6	2078.4	2012.0	1943.4	1930.1
57.5°	9904.9	4482.1	2244.4	2235.5	2277.6	2067.3	1994.3	1899.1	1803.9	1748.6	1748.6
60°	8317.9	3267.0	1921.2	1943.4	2038.5	1925.7	1861.5	1764.1	1660.0	1611.4	1611.4
62.5°	4918.2	2049.6	1593.6	1569.3	1629.1	1699.9	1735.3	1655.6	1531.7	1467.5	1469.7
65°	2166.9	1491.8	1405.5	1385.6	1367.9	1416.6	1514.0	1520.6	1390.0	1314.8	1317.0
67.5°	1334.7	1350.2	1314.8	1299.3	1283.8	1274.9	1266.1	1270.5	1235.1	1166.5	1164.2
70°	1204.1	1246.1	1221.8	1208.5	1188.6	1173.1	1120.0	1033.7	973.9	956.2	976.1
72.5°	1035.9	1093.4	1080.1	1073.5	1049.1	1011.5	940.7	856.6	785.8	741.5	750.3
75°	781.3	827.8	834.5	836.7	810.1	774.7	701.6	630.8	568.8	522.4	533.4
77.5°	449.3	475.9	482.5	489.2	469.2	456.0	407.3	356.4	323.2	274.5	287.7
80°	250.1	261.2	261.2	263.4	252.3	236.8	203.6	174.9	159.4	137.2	139.4
82.5°	150.5	154.9	157.2	159.4	152.7	137.2	112.9	93.0	84.1	73.0	70.8
85°	73.0	77.5	77.5	79.7	68.6	59.8	46.5	35.4	31.0	22.1	24.3
87.5°	17.7	19.9	19.9	17.7	15.5	11.1	6.6	2.2	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)