

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: P636875

Luminaire Tested: GWS-SA4B-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR 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: 12437.7 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

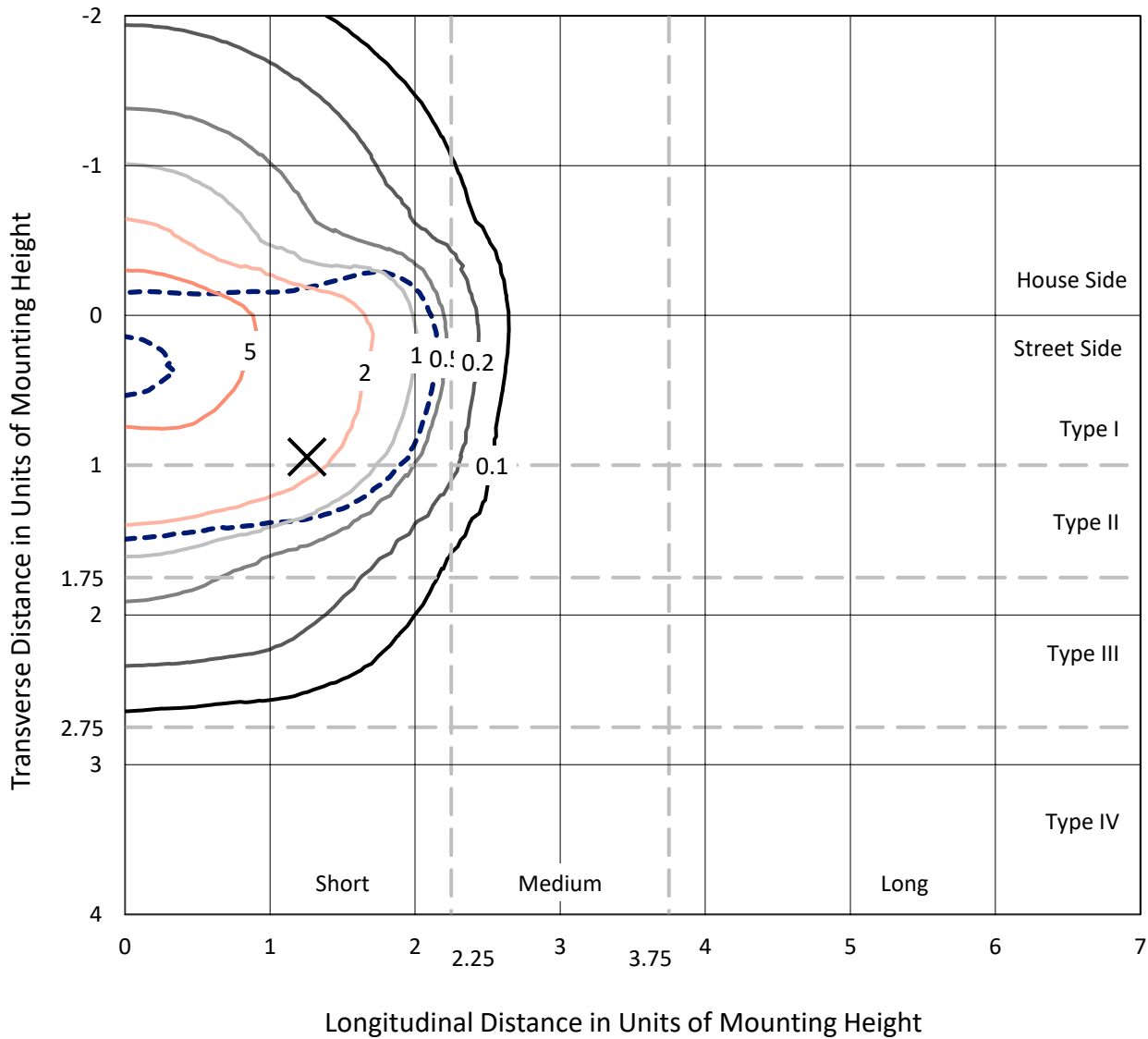
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

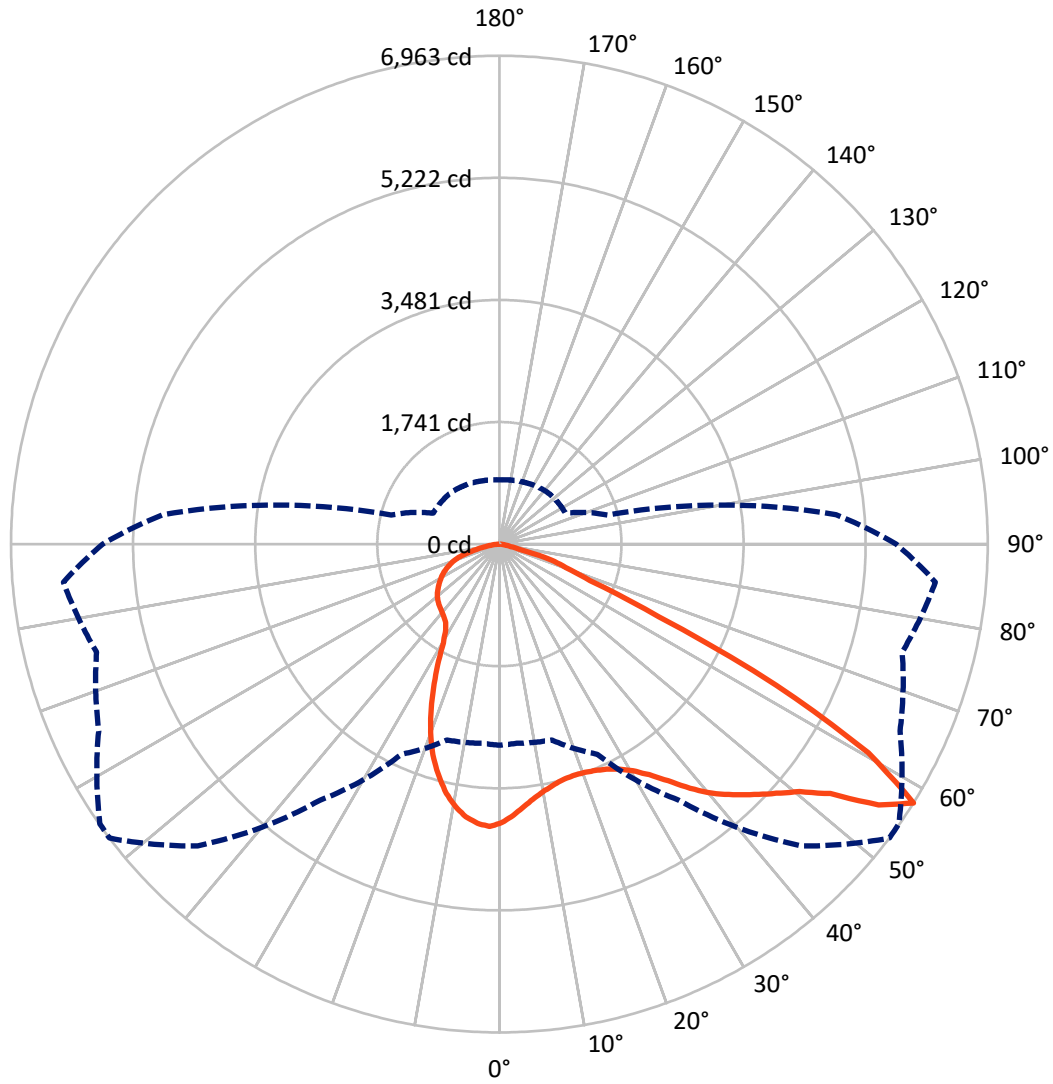
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

REPORT NUMBER: P636875
CATALOG NUMBER: GWS-SA4B-760-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA4B-760-U-SL2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3888.8	0.0	3888.8
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8548.9	0.0	8548.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	12437.7	0.0	12437.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	2.9
10°-20°	942.3	7.6
20°-30°	1388.3	11.2
30°-40°	1943.3	15.6
40°-50°	2554.6	20.5
50°-60°	2995.2	24.1
60°-70°	1764.5	14.2
70°-80°	439.0	3.5
80°-90°	51.5	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°	12437.7	100.0
0°-180°	12437.7	100.0

Coefficient of Utilization



REPORT NUMBER: P636875

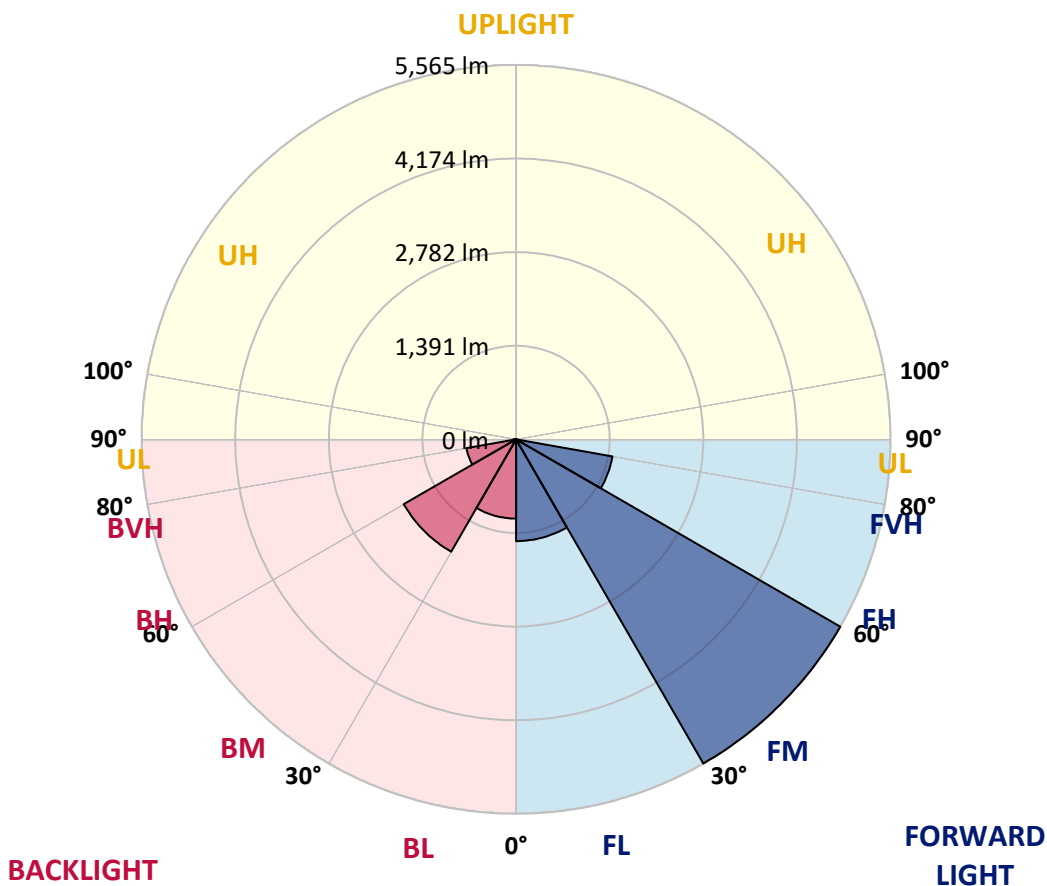
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1512.2	12.2			
FM (30°-60°)	5564.7	44.7			
FH (60°-80°)	1454.7	11.7			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1177.5	9.5	B3/2500		
BM (30°-60°)	1928.3	15.5	B2/2500		
BH (60°-80°)	748.7	6.0	B2/1000		G2/1000
BVH (80°-90°)	34.3	0.3			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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CATALOG NUMBER: GWS-SA4B-760-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7
2.5°	3743.5	3754.0	3756.0	3788.5	3790.6	3837.7	3869.1	3862.8	3895.3	3935.1	3966.5
5°	3564.5	3565.5	3576.0	3614.7	3635.7	3697.4	3749.8	3749.8	3812.6	3894.2	3964.4
7.5°	3416.9	3415.8	3425.2	3468.2	3502.7	3577.0	3648.2	3656.6	3744.5	3863.9	3978.0
10°	3279.7	3287.1	3297.5	3349.9	3393.8	3486.0	3570.8	3584.4	3695.3	3842.9	3996.8
12.5°	3191.8	3192.8	3208.6	3267.2	3323.7	3422.1	3511.1	3527.8	3655.5	3823.0	4010.4
15°	3135.3	3136.3	3153.1	3218.0	3283.9	3383.4	3474.4	3493.3	3632.5	3819.9	4036.6
17.5°	3110.1	3109.1	3124.8	3189.7	3261.9	3365.6	3462.9	3486.0	3643.0	3844.0	4082.7
20°	3110.1	3111.2	3119.6	3178.2	3251.5	3361.4	3474.4	3502.7	3683.8	3898.4	4153.8
22.5°	3154.1	3158.3	3162.5	3202.3	3259.8	3367.7	3504.8	3542.5	3771.7	3989.5	4247.0
25°	3240.0	3241.0	3245.2	3277.6	3303.8	3385.5	3555.1	3611.6	3908.9	4122.4	4364.3
27.5°	3355.1	3369.8	3374.0	3394.9	3394.9	3429.4	3633.6	3715.2	4094.2	4314.0	4514.0
30°	3516.3	3521.6	3528.9	3551.9	3526.8	3512.1	3748.7	3853.4	4308.8	4545.4	4694.0
32.5°	3657.6	3669.2	3708.9	3746.6	3701.6	3655.5	3918.3	4041.8	4515.0	4786.1	4885.6
35°	3778.0	3806.3	3882.7	3966.5	3935.1	3889.0	4143.4	4272.1	4684.6	4958.9	5055.2
37.5°	3923.5	3945.5	4050.2	4186.3	4214.6	4192.6	4417.6	4509.8	4797.6	5002.8	5147.3
40°	4071.1	4104.6	4239.7	4428.1	4535.9	4551.6	4671.0	4732.7	4836.4	4917.0	5129.5
42.5°	4221.9	4279.5	4464.8	4684.6	4876.2	4911.8	4884.5	4910.7	4823.8	4798.7	5046.8
45°	4406.1	4474.2	4683.5	4964.1	5216.4	5271.9	5093.9	5069.8	4821.7	4753.7	4995.5
47.5°	4623.9	4691.9	4891.9	5218.5	5540.9	5581.7	5308.5	5264.5	4895.0	4822.8	5064.6
50°	4816.5	4863.6	5042.6	5408.0	5843.4	5867.5	5545.1	5491.7	5077.2	5014.3	5280.2
52.5°	4620.7	4615.5	4803.9	5254.1	6000.5	6290.4	5909.4	5858.1	5428.9	5332.6	5614.2
55°	3920.4	3860.7	4029.3	4472.1	5561.8	6666.2	6562.6	6460.0	5897.9	5652.9	5927.2
57.5°	2866.2	2849.5	2890.3	3305.9	4455.3	6084.2	6962.5	6953.1	6303.0	5946.0	6239.1
60°	2241.3	2216.2	2107.3	2118.8	3036.9	4752.6	6042.3	6319.7	6554.2	6121.9	6456.9
62.5°	1990.0	1971.2	1914.7	1758.7	1808.9	3186.6	4429.2	4683.5	5727.2	5406.9	5546.1
65°	1647.7	1642.5	1689.6	1683.3	1515.8	1759.7	2499.8	2756.3	3601.1	3646.1	3601.1
67.5°	1197.6	1188.2	1307.5	1543.0	1459.3	1328.4	1393.3	1482.3	1846.6	1658.2	1492.8
70°	778.8	765.2	834.3	1114.9	1306.5	1157.8	1003.9	989.3	1015.4	631.2	682.5
72.5°	522.4	506.7	505.6	613.4	789.3	779.9	777.8	770.5	687.8	498.3	552.7
75°	291.0	278.5	275.3	264.8	282.6	287.9	306.7	317.2	343.4	377.9	418.7
77.5°	49.2	48.2	60.7	77.5	106.8	137.1	169.6	179.0	220.9	261.7	287.9
80°	27.2	28.3	36.6	45.0	59.7	81.7	104.7	111.0	136.1	158.1	179.0
82.5°	14.7	14.7	18.8	24.1	32.5	42.9	56.5	61.8	78.5	92.1	106.8
85°	5.2	5.2	7.3	9.4	13.6	17.8	22.0	25.1	34.5	47.1	53.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	9.4	13.6
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: P636875

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7	3971.7
2.5°	3992.6	3964.4	4003.1	4020.9	4027.2	4031.4	4004.1	3985.3	3979.0	3959.1	3947.6
5°	4007.3	3988.4	4025.1	4025.1	3998.9	3971.7	3916.2	3877.5	3850.3	3817.8	3812.6
7.5°	4032.4	4018.8	4038.7	3997.9	3931.9	3858.6	3762.3	3687.0	3626.2	3586.5	3587.5
10°	4065.9	4049.2	4033.5	3942.4	3822.0	3687.0	3539.4	3429.4	3328.9	3282.9	3257.8
12.5°	4087.9	4063.8	3997.9	3847.1	3670.2	3489.1	3280.8	3117.5	2972.0	2906.0	2900.8
15°	4115.1	4071.1	3939.2	3723.6	3477.6	3230.5	2962.5	2735.4	2538.6	2436.0	2430.8
17.5°	4150.7	4078.5	3869.1	3582.3	3274.5	2910.2	2573.1	2287.3	2078.0	1998.4	2012.0
20°	4201.0	4086.8	3789.5	3425.2	3022.2	2545.9	2126.1	1863.4	1782.8	1777.5	1767.1
22.5°	4257.5	4092.1	3701.6	3249.4	2716.5	2157.5	1756.6	1644.6	1643.5	1669.7	1676.0
25°	4321.3	4096.3	3602.2	3044.2	2385.7	1770.2	1553.5	1520.0	1546.2	1595.4	1601.7
27.5°	4403.0	4104.6	3481.8	2819.1	2034.0	1529.4	1441.5	1433.1	1464.5	1510.6	1508.5
30°	4523.4	4135.0	3354.1	2560.6	1672.8	1415.3	1373.4	1374.5	1387.1	1409.0	1412.2
32.5°	4645.9	4182.1	3229.5	2269.5	1465.6	1350.4	1331.6	1329.5	1329.5	1338.9	1341.0
35°	4762.1	4235.5	3094.4	1966.0	1365.1	1312.7	1300.2	1293.9	1290.7	1288.7	1285.5
37.5°	4827.0	4261.7	2962.5	1666.6	1311.7	1287.6	1275.0	1266.7	1255.2	1246.8	1244.7
40°	4798.7	4231.3	2809.7	1442.5	1279.2	1263.5	1248.9	1237.4	1221.7	1214.3	1210.1
42.5°	4704.5	4137.1	2643.3	1336.8	1253.1	1237.4	1219.6	1200.7	1190.3	1184.0	1182.9
45°	4605.0	4023.0	2442.3	1275.0	1227.9	1209.1	1188.2	1167.2	1155.7	1152.6	1151.5
47.5°	4601.9	3966.5	2228.7	1225.8	1197.6	1178.7	1152.6	1131.6	1119.1	1114.9	1110.7
50°	4740.1	4024.0	1987.9	1182.9	1166.2	1146.3	1117.0	1093.9	1078.2	1073.0	1072.0
52.5°	5026.9	4240.7	1772.3	1140.0	1124.3	1101.3	1077.2	1054.2	1035.3	1025.9	1024.9
55°	5336.8	4516.0	1638.3	1096.0	1075.1	1055.2	1033.2	1008.1	987.2	972.5	970.4
57.5°	5657.1	4816.5	1597.5	1040.6	1024.9	1011.2	985.1	957.9	933.8	920.2	917.0
60°	5920.9	5075.1	1673.9	981.9	973.6	955.8	931.7	905.5	888.8	878.3	876.2
62.5°	4956.8	4131.9	1351.5	918.1	918.1	899.2	872.0	853.2	841.7	834.3	832.2
65°	3145.7	2558.5	922.3	854.2	853.2	828.0	805.0	792.5	787.2	775.7	773.6
67.5°	1370.3	1169.3	788.3	789.3	785.1	757.9	734.9	725.5	715.0	702.4	701.4
70°	710.8	724.4	705.6	717.1	709.8	677.3	655.3	640.7	618.7	606.1	607.2
72.5°	573.7	588.3	609.3	627.1	611.4	585.2	550.6	532.8	504.6	491.0	492.0
75°	437.6	453.3	473.2	492.0	479.5	447.0	425.0	407.2	374.8	359.1	362.2
77.5°	301.5	309.9	333.9	332.9	328.7	319.3	286.8	265.9	232.4	213.6	215.6
80°	187.4	192.6	204.1	209.4	207.3	194.7	168.5	152.8	132.9	121.4	122.5
82.5°	113.1	116.2	126.7	127.7	126.7	117.2	97.4	85.8	73.3	67.0	67.0
85°	57.6	59.7	66.0	66.0	59.7	50.2	45.0	39.8	32.5	29.3	29.3
87.5°	15.7	15.7	19.9	16.7	13.6	12.6	6.3	5.2	2.1	1.0	1.0
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)