

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: P637044

Luminaire Tested: GWS-SA4C-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11974.3 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

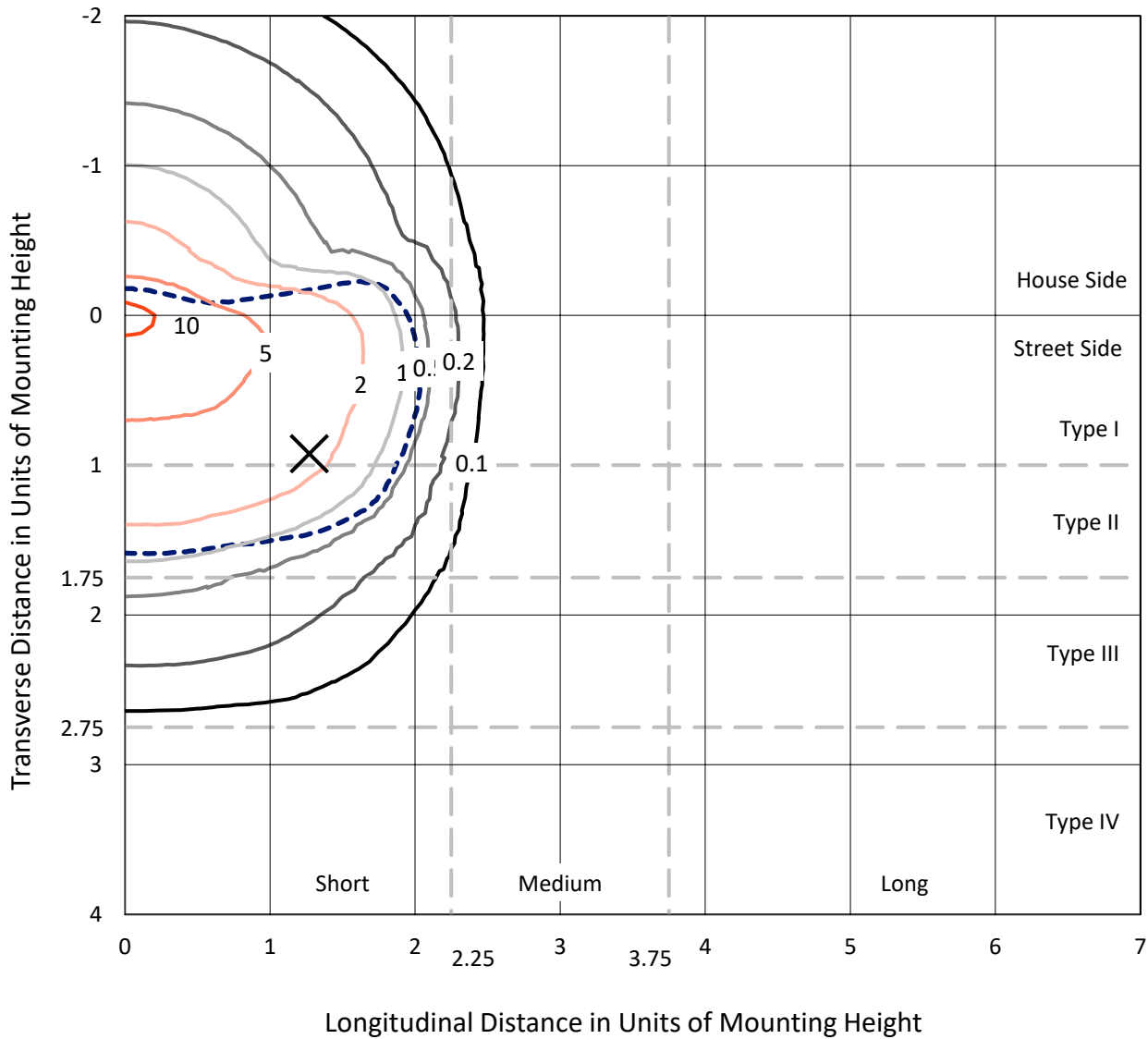
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

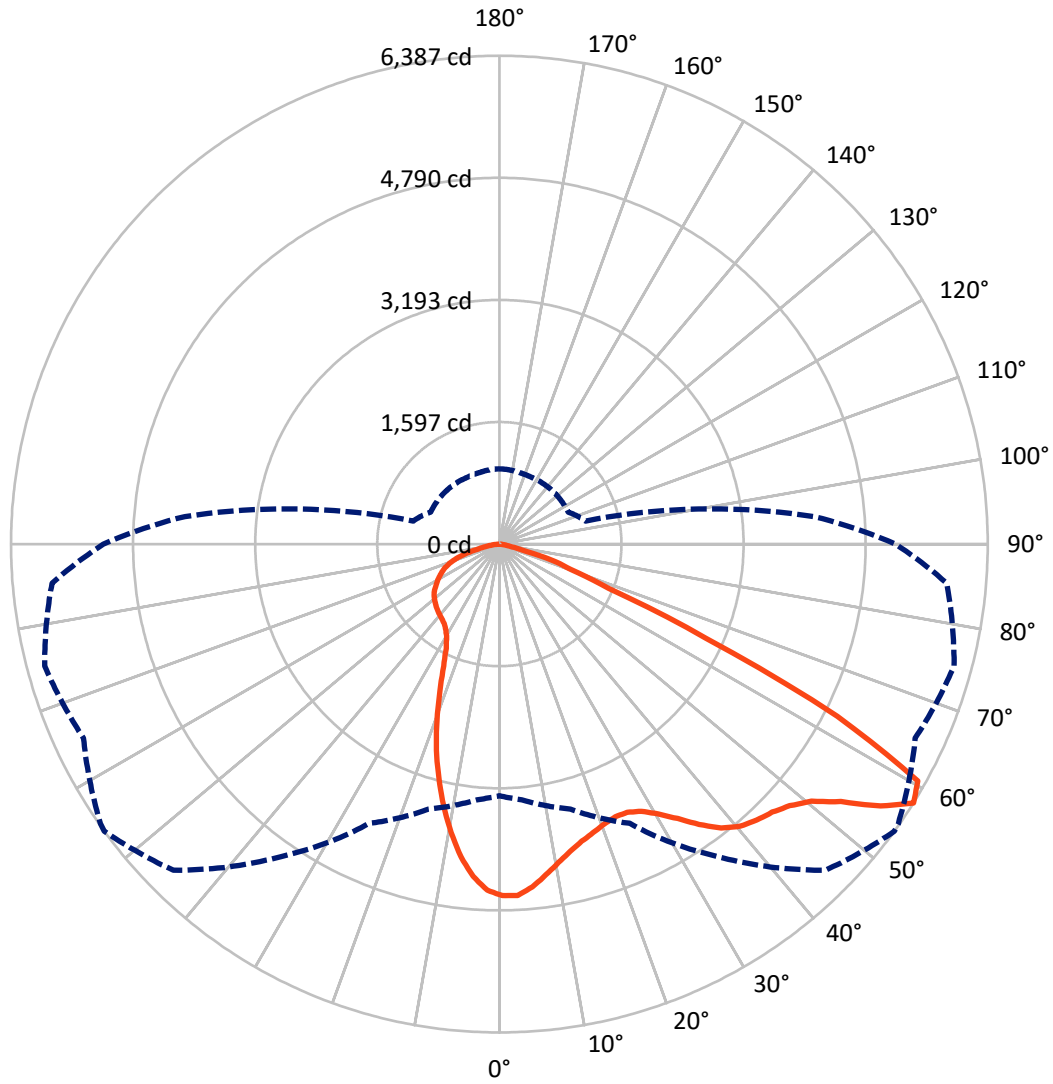
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3481.1	0.0	3481.1
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8493.2	0.0	8493.2
	% Fixture	70.9	0.0	70.9
Total	Lumens	11974.3	0.0	11974.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.1	3.4
10°-20°	964.2	8.1
20°-30°	1334.3	11.1
30°-40°	1854.0	15.5
40°-50°	2448.6	20.4
50°-60°	2909.8	24.3
60°-70°	1612.1	13.5
70°-80°	401.4	3.4
80°-90°	45.7	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°	11974.3	100.0
0°-180°	11974.3	100.0

Coefficient of Utilization



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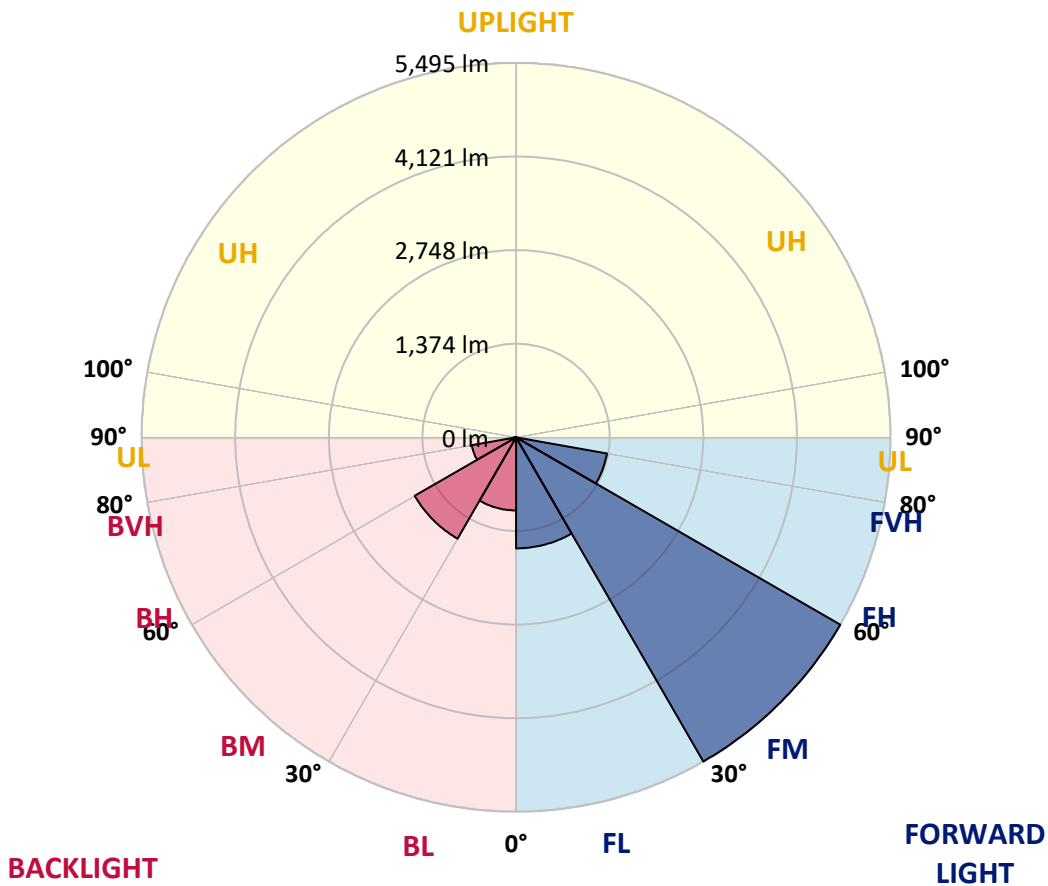
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.9	13.6			
FM (30°-60°)	5495.2	45.9			
FH (60°-80°)	1353.9	11.3			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1072.7	9.0	B3/2500		
BM (30°-60°)	1717.3	14.3	B2/2500		
BH (60°-80°)	659.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.4	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2
2.5°	4511.1	4520.3	4526.5	4548.0	4566.5	4582.9	4600.3	4600.3	4599.3	4596.2	4590.0
5°	4332.8	4343.0	4357.4	4387.1	4427.1	4455.8	4502.9	4507.0	4527.5	4535.7	4531.6
7.5°	4125.7	4128.8	4147.2	4186.2	4249.7	4301.0	4368.6	4376.8	4426.0	4454.7	4449.6
10°	3899.2	3888.9	3921.7	3979.1	4062.1	4148.2	4235.4	4242.5	4321.5	4375.8	4371.7
12.5°	3692.1	3693.1	3725.9	3795.6	3899.2	4005.8	4122.6	4139.0	4236.4	4306.1	4298.9
15°	3518.9	3523.0	3563.0	3641.9	3759.8	3886.9	4032.4	4047.8	4170.8	4263.0	4242.5
17.5°	3380.5	3384.6	3419.5	3509.7	3635.7	3789.5	3966.8	3982.2	4134.9	4244.6	4202.6
20°	3285.2	3283.1	3317.0	3403.1	3533.2	3700.3	3909.4	3932.0	4123.6	4251.8	4175.9
22.5°	3246.2	3245.2	3269.8	3340.5	3462.5	3631.6	3874.6	3905.3	4135.9	4283.6	4159.5
25°	3265.7	3261.6	3283.1	3335.4	3432.8	3605.0	3884.8	3917.6	4188.2	4349.2	4162.6
27.5°	3326.2	3321.1	3339.5	3386.7	3460.5	3632.7	3956.6	3994.5	4298.9	4469.1	4203.6
30°	3418.4	3415.4	3433.8	3478.9	3543.5	3724.9	4093.9	4137.0	4470.1	4655.6	4292.8
32.5°	3526.1	3520.9	3553.7	3606.0	3680.8	3893.0	4278.4	4334.8	4673.1	4895.5	4442.4
35°	3647.0	3642.9	3688.0	3763.9	3871.5	4126.7	4501.9	4563.4	4880.1	5167.1	4641.3
37.5°	3764.9	3764.9	3852.0	3964.8	4100.1	4380.9	4712.0	4751.0	5023.6	5408.0	4854.5
40°	3869.4	3875.6	4006.8	4175.9	4348.1	4610.5	4850.4	4883.2	5087.2	5574.0	5040.0
42.5°	3985.3	3990.4	4143.1	4364.5	4569.5	4796.1	4934.4	4950.8	5099.5	5657.1	5171.2
45°	4077.5	4084.7	4274.3	4511.1	4762.2	4935.5	5001.1	5015.4	5116.9	5702.2	5266.5
47.5°	4125.7	4135.9	4353.3	4629.0	4892.4	5060.5	5110.7	5116.9	5188.6	5781.1	5381.3
50°	4117.5	4138.0	4383.0	4687.4	4988.8	5186.6	5287.0	5297.3	5335.2	5896.9	5515.6
52.5°	4190.3	4199.5	4446.5	4757.1	5126.1	5419.3	5593.5	5607.9	5590.4	5984.1	5595.6
55°	4069.3	4113.4	4367.6	4746.9	5335.2	5779.1	6047.6	6040.4	5822.1	6081.4	5728.8
57.5°	3291.3	3355.9	3588.6	4029.3	4990.8	6031.2	6386.9	6369.5	6001.5	6156.3	5873.4
60°	2278.6	2288.9	2499.0	2811.6	3852.0	5328.0	6287.5	6325.4	6034.3	6062.0	5605.8
62.5°	1822.5	1819.4	1838.9	1847.1	2449.8	3745.4	4963.1	5101.5	5013.4	4723.3	3973.0
65°	1556.0	1567.3	1624.7	1594.9	1599.0	2109.5	2965.4	2984.9	2923.4	2818.8	2101.3
67.5°	1217.7	1237.2	1338.7	1454.5	1417.6	1358.1	1538.6	1529.3	1205.4	932.8	770.8
70°	762.6	774.9	883.6	1141.9	1234.1	1115.2	989.1	985.0	645.8	531.0	582.2
72.5°	444.9	446.9	477.7	636.5	819.0	762.6	727.8	701.1	415.1	423.3	464.3
75°	245.0	245.0	244.0	274.7	322.9	286.0	276.8	269.6	277.8	314.7	345.4
77.5°	51.3	52.3	55.4	72.8	94.3	114.8	144.5	145.6	181.4	210.1	234.7
80°	23.6	24.6	30.8	39.0	50.2	66.6	88.2	89.2	109.7	132.2	148.6
82.5°	12.3	13.3	16.4	20.5	26.7	34.9	49.2	49.2	65.6	77.9	88.2
85°	4.1	4.1	6.2	8.2	11.3	14.4	19.5	19.5	28.7	37.9	44.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	4.1	5.1	6.2	10.3
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°	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2	4597.2
2.5°	4576.7	4544.9	4546.0	4552.1	4532.6	4502.9	4483.4	4458.8	4443.5	4440.4	4451.7
5°	4511.1	4474.2	4448.6	4421.9	4366.6	4301.0	4249.7	4207.7	4180.0	4169.8	4157.5
7.5°	4420.9	4372.7	4308.2	4233.3	4132.9	4016.0	3934.0	3857.1	3803.8	3788.5	3781.3
10°	4330.7	4261.0	4146.2	4006.8	3839.7	3681.9	3533.2	3419.5	3329.3	3278.0	3294.4
12.5°	4237.4	4151.3	3971.9	3757.7	3525.0	3287.2	3092.5	2903.9	2758.3	2685.5	2664.0
15°	4155.4	4038.6	3788.5	3498.4	3188.8	2889.5	2607.6	2324.7	2140.2	2039.8	2012.1
17.5°	4085.7	3934.0	3594.7	3233.9	2863.9	2437.5	2091.0	1828.6	1702.6	1647.2	1643.1
20°	4017.0	3831.5	3403.1	2949.0	2488.7	2011.1	1701.5	1578.5	1533.4	1514.0	1512.9
22.5°	3955.5	3723.9	3201.1	2664.0	2115.6	1690.3	1520.1	1466.8	1454.5	1454.5	1452.5
25°	3903.3	3616.3	2994.1	2361.6	1778.4	1504.7	1425.8	1403.2	1408.4	1417.6	1418.6
27.5°	3881.7	3532.2	2794.2	2051.1	1545.7	1397.1	1361.2	1358.1	1372.5	1386.8	1388.9
30°	3904.3	3474.8	2589.2	1753.8	1406.3	1331.5	1315.1	1321.2	1338.7	1353.0	1353.0
32.5°	3974.0	3446.1	2380.1	1536.5	1325.3	1285.4	1280.2	1286.4	1299.7	1307.9	1308.9
35°	4091.9	3457.4	2163.8	1389.9	1273.1	1251.5	1250.5	1254.6	1259.7	1264.9	1265.9
37.5°	4240.5	3507.6	1932.2	1304.8	1239.2	1226.9	1224.9	1223.9	1224.9	1224.9	1225.9
40°	4386.1	3583.5	1725.1	1254.6	1215.7	1205.4	1200.3	1193.1	1192.1	1190.0	1189.0
42.5°	4493.7	3641.9	1560.1	1218.7	1194.1	1181.8	1175.7	1164.4	1163.4	1162.4	1161.3
45°	4574.7	3691.1	1422.7	1183.9	1171.6	1160.3	1147.0	1136.7	1138.8	1140.8	1140.8
47.5°	4665.9	3734.1	1322.3	1151.1	1143.9	1132.6	1116.2	1109.1	1116.2	1123.4	1123.4
50°	4776.6	3794.6	1240.3	1118.3	1115.2	1101.9	1087.5	1084.5	1092.7	1102.9	1102.9
52.5°	4857.6	3846.9	1181.8	1085.5	1085.5	1068.1	1055.8	1054.7	1064.0	1074.2	1075.2
55°	5009.3	3968.9	1161.3	1047.6	1043.5	1030.1	1020.9	1013.7	1025.0	1034.2	1034.2
57.5°	5180.4	4130.8	1166.5	993.2	988.1	984.0	976.8	968.6	971.7	982.0	983.0
60°	4817.6	3817.2	1110.1	938.9	935.8	933.8	924.6	910.2	914.3	922.5	923.5
62.5°	3365.1	2536.9	897.9	871.3	881.5	880.5	868.2	851.8	852.8	864.1	864.1
65°	1746.6	1372.5	788.2	809.8	825.1	819.0	798.5	784.1	782.1	796.4	793.4
67.5°	753.4	749.3	717.5	745.2	761.6	748.3	726.7	703.2	705.2	710.3	706.2
70°	606.8	625.3	638.6	668.3	681.6	657.0	633.5	620.1	608.9	607.8	600.7
72.5°	484.8	510.5	540.2	570.9	575.0	550.4	520.7	508.4	491.0	490.0	482.8
75°	364.9	386.4	410.0	434.6	434.6	411.0	391.6	385.4	364.9	358.8	352.6
77.5°	249.1	262.4	280.9	287.0	293.2	283.9	264.5	254.2	230.6	224.5	216.3
80°	156.8	166.1	177.3	181.4	187.6	176.3	160.9	149.7	133.3	128.1	124.0
82.5°	94.3	100.5	107.6	109.7	114.8	106.6	92.3	84.1	74.8	70.7	67.7
85°	48.2	51.3	55.4	56.4	55.4	47.2	42.0	37.9	31.8	30.8	28.7
87.5°	12.3	14.4	15.4	14.4	13.3	10.3	7.2	5.1	2.1	2.1	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)