

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: P633249

Luminaire Tested: GWS-SA2E-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633249
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-SA2E-735-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12051.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

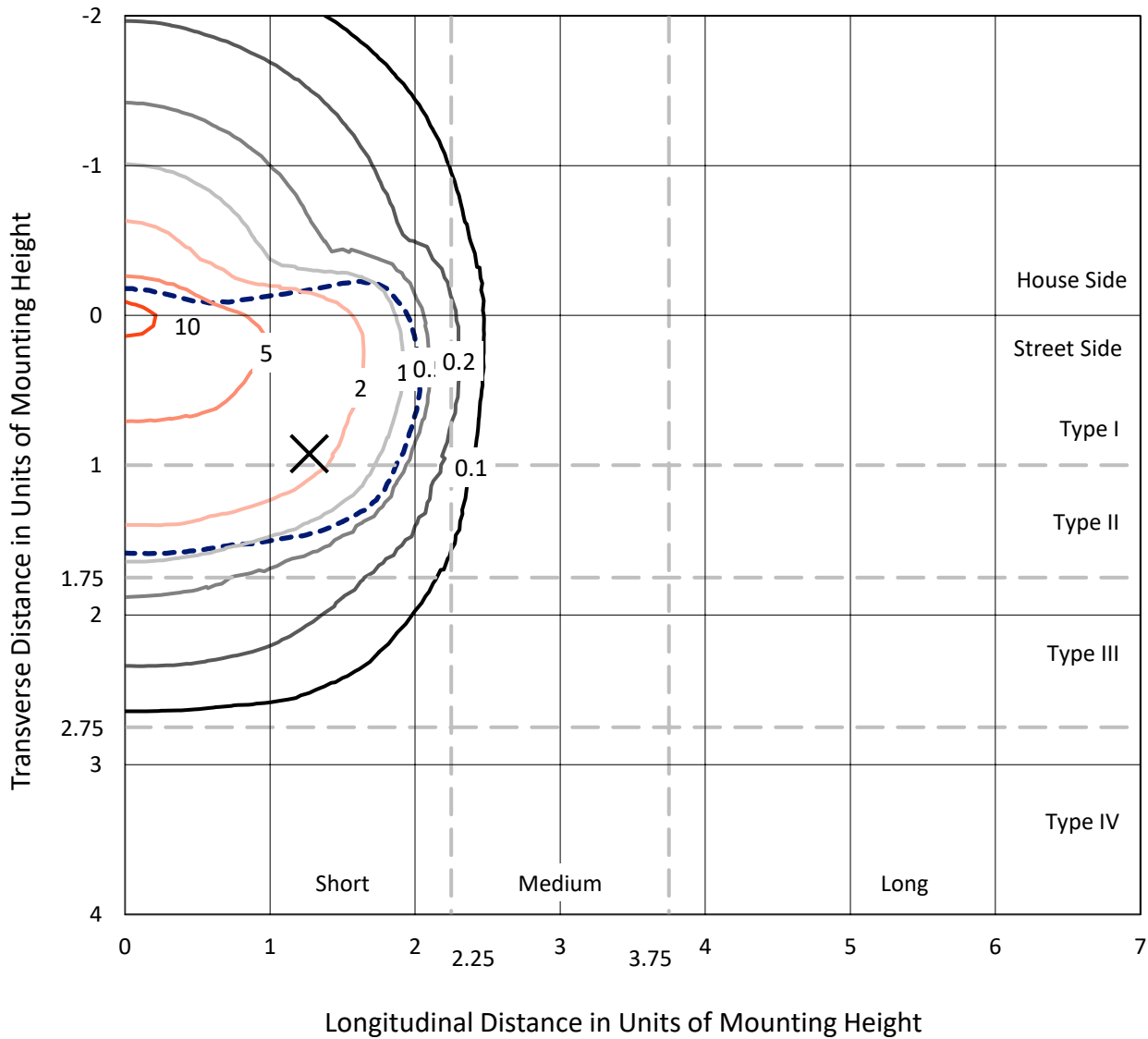
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

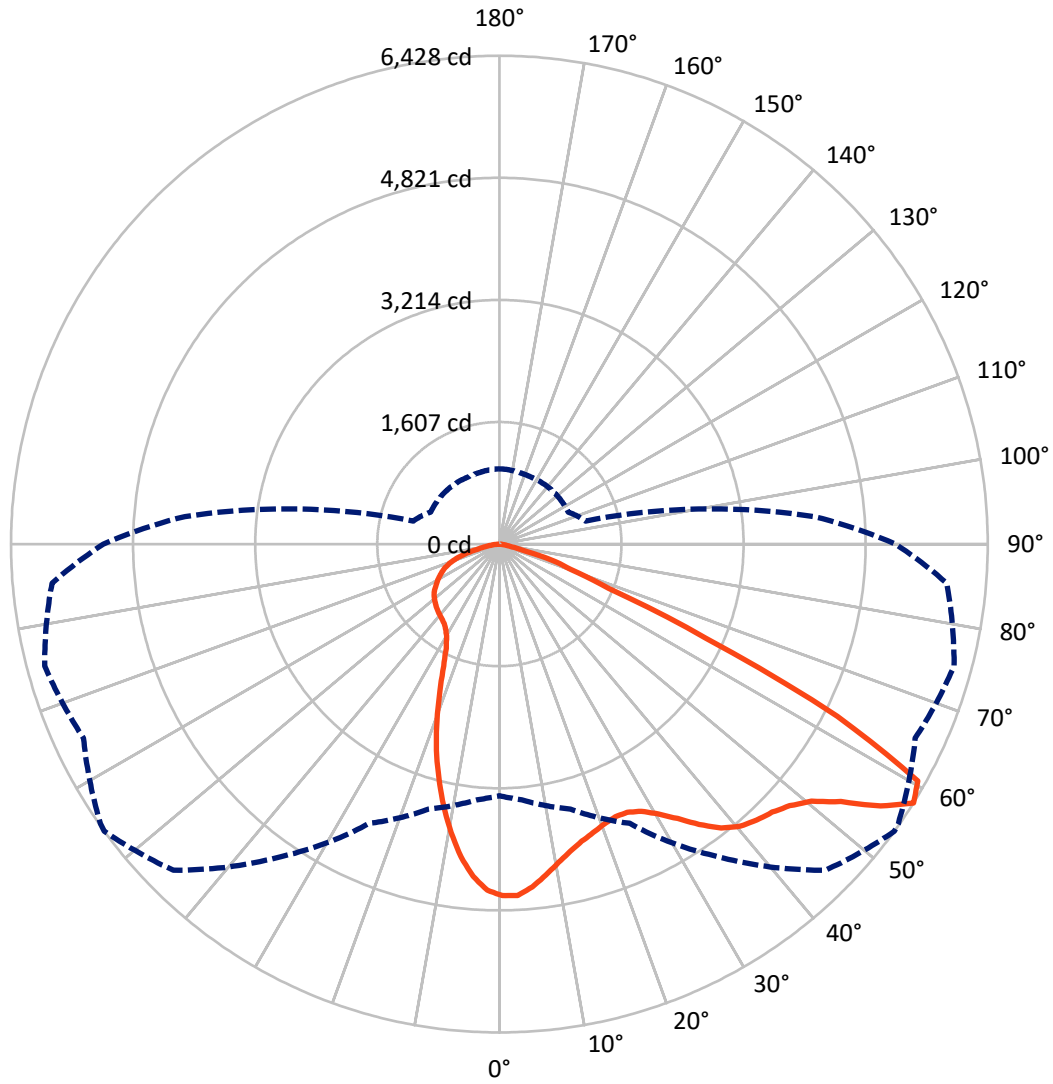
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 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	3503.6	0.0	3503.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8548.2	0.0	8548.2
	% Fixture	70.9	0.0	70.9
Total	Lumens	12051.8	0.0	12051.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.7	3.4
10°-20°	970.5	8.1
20°-30°	1343.0	11.1
30°-40°	1866.0	15.5
40°-50°	2464.5	20.4
50°-60°	2928.7	24.3
60°-70°	1622.5	13.5
70°-80°	404.0	3.4
80°-90°	45.9	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°	12051.8	100.0
0°-180°	12051.8	100.0

Coefficient of Utilization



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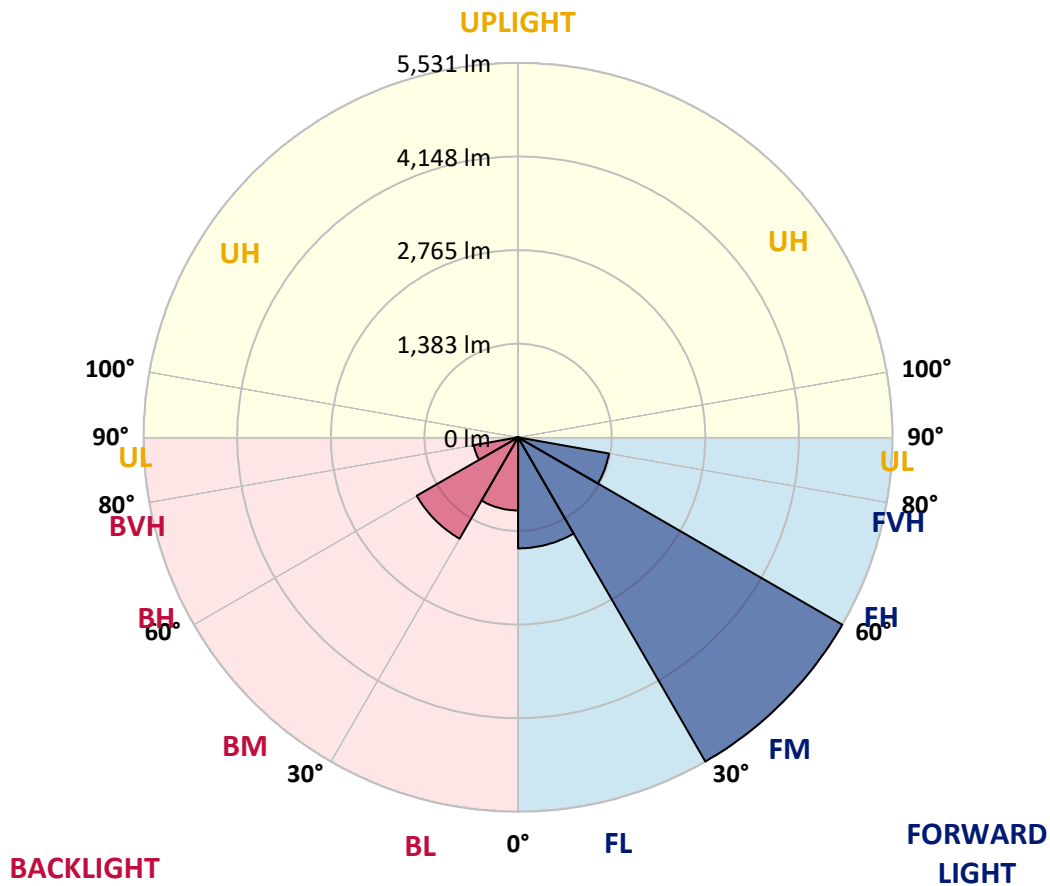
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.4	13.6			
FM (30°-60°)	5530.8	45.9			
FH (60°-80°)	1362.6	11.3			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1079.7	9.0	B3/2500		
BM (30°-60°)	1728.4	14.3	B2/2500		
BH (60°-80°)	664.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.6	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°	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0
2.5°	4540.3	4549.6	4555.8	4577.4	4596.0	4612.5	4630.1	4630.1	4629.0	4625.9	4619.7
5°	4360.8	4371.1	4385.6	4415.5	4455.7	4484.6	4532.0	4536.2	4556.8	4565.1	4560.9
7.5°	4152.4	4155.5	4174.1	4213.3	4277.2	4328.8	4396.9	4405.2	4454.7	4483.6	4478.4
10°	3924.4	3914.1	3947.1	4004.9	4088.4	4175.1	4262.8	4270.0	4349.4	4404.1	4400.0
12.5°	3716.0	3717.0	3750.1	3820.2	3924.4	4031.7	4149.3	4165.8	4263.8	4334.0	4326.7
15°	3541.7	3545.8	3586.0	3665.5	3784.1	3912.0	4058.5	4074.0	4197.8	4290.6	4270.0
17.5°	3402.4	3406.5	3441.6	3532.4	3659.3	3814.0	3992.5	4008.0	4161.7	4272.1	4229.8
20°	3306.4	3304.4	3338.4	3425.1	3556.1	3724.3	3934.7	3957.4	4150.3	4279.3	4203.0
22.5°	3267.2	3266.2	3291.0	3362.2	3484.9	3655.1	3899.6	3930.6	4162.7	4311.3	4186.4
25°	3286.8	3282.7	3304.4	3357.0	3455.0	3628.3	3910.0	3943.0	4215.3	4377.3	4189.5
27.5°	3347.7	3342.6	3361.1	3408.6	3482.9	3656.2	3982.2	4020.3	4326.7	4498.0	4230.8
30°	3440.6	3437.5	3456.0	3501.4	3566.4	3749.0	4120.4	4163.7	4499.0	4685.8	4320.6
32.5°	3548.9	3543.7	3576.7	3629.4	3704.7	3918.2	4306.1	4362.9	4703.3	4927.2	4471.2
35°	3670.6	3666.5	3711.9	3788.2	3896.6	4153.4	4531.0	4592.9	4911.7	5200.6	4671.3
37.5°	3789.3	3789.3	3876.9	3990.4	4126.6	4409.3	4742.5	4781.7	5056.1	5443.0	4885.9
40°	3894.5	3900.7	4032.7	4203.0	4376.3	4640.4	4881.8	4914.8	5120.1	5610.1	5072.6
42.5°	4011.1	4016.2	4169.9	4392.8	4599.1	4827.1	4966.4	4982.9	5132.5	5693.7	5204.7
45°	4103.9	4111.1	4302.0	4540.3	4793.1	4967.4	5033.4	5047.9	5150.0	5739.1	5300.6
47.5°	4152.4	4162.7	4381.4	4658.9	4924.1	5093.3	5143.8	5150.0	5222.2	5818.5	5416.2
50°	4144.1	4164.8	4411.3	4717.7	5021.1	5220.2	5321.3	5331.6	5369.7	5935.1	5551.3
52.5°	4217.4	4226.7	4475.3	4787.9	5159.3	5454.3	5629.7	5644.2	5626.6	6022.8	5631.8
55°	4095.7	4140.0	4395.9	4777.6	5369.7	5816.5	6086.7	6079.5	5859.8	6120.8	5765.9
57.5°	3312.6	3377.6	3611.8	4055.4	5023.1	6070.2	6428.2	6410.7	6040.3	6196.1	5911.4
60°	2293.4	2303.7	2515.2	2829.8	3876.9	5362.5	6328.2	6366.3	6073.3	6101.2	5642.1
62.5°	1834.3	1831.2	1850.8	1859.0	2465.6	3769.7	4995.3	5134.5	5045.8	4753.9	3998.7
65°	1566.0	1577.4	1635.2	1605.3	1609.4	2123.1	2984.6	3004.2	2942.3	2837.0	2114.9
67.5°	1225.6	1245.2	1347.3	1463.9	1426.8	1366.9	1548.5	1539.2	1213.2	938.8	775.8
70°	767.5	779.9	889.3	1149.3	1242.1	1122.4	995.5	991.4	649.9	534.4	586.0
72.5°	447.7	449.8	480.7	640.7	824.3	767.5	732.5	705.7	417.8	426.1	467.3
75°	246.6	246.6	245.5	276.5	325.0	287.8	278.5	271.3	279.6	316.7	347.7
77.5°	51.6	52.6	55.7	73.2	94.9	115.5	145.5	146.5	182.6	211.5	236.2
80°	23.7	24.8	30.9	39.2	50.6	67.1	88.7	89.8	110.4	133.1	149.6
82.5°	12.4	13.4	16.5	20.6	26.8	35.1	49.5	49.5	66.0	78.4	88.7
85°	4.1	4.1	6.2	8.3	11.3	14.4	19.6	19.6	28.9	38.2	44.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	4.1	5.2	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°	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0	4627.0
2.5°	4606.3	4574.3	4575.4	4581.6	4562.0	4532.0	4512.4	4487.7	4472.2	4469.1	4480.5
5°	4540.3	4503.2	4477.4	4450.5	4394.8	4328.8	4277.2	4234.9	4207.1	4196.8	4184.4
7.5°	4449.5	4401.0	4336.0	4260.7	4159.6	4042.0	3959.5	3882.1	3828.5	3813.0	3805.8
10°	4358.7	4288.6	4173.0	4032.7	3864.6	3705.7	3556.1	3441.6	3350.8	3299.2	3315.7
12.5°	4264.8	4178.2	3997.7	3782.0	3547.9	3308.5	3112.5	2922.7	2776.2	2702.9	2681.3
15°	4182.3	4064.7	3813.0	3521.0	3209.5	2908.2	2624.5	2339.8	2154.1	2053.0	2025.1
17.5°	4112.2	3959.5	3618.0	3254.9	2882.4	2453.3	2104.6	1840.5	1713.6	1657.9	1653.7
20°	4043.0	3856.3	3425.1	2968.1	2504.9	2024.1	1712.5	1588.7	1543.4	1523.8	1522.7
22.5°	3981.1	3748.0	3221.8	2681.3	2129.3	1701.2	1529.9	1476.3	1463.9	1463.9	1461.9
25°	3928.5	3639.7	3013.5	2376.9	1789.9	1514.5	1435.0	1412.3	1417.5	1426.8	1427.8
27.5°	3906.9	3555.1	2812.3	2064.3	1555.7	1406.1	1370.0	1366.9	1381.4	1395.8	1397.9
30°	3929.6	3497.3	2606.0	1765.2	1415.4	1340.1	1323.6	1329.8	1347.3	1361.8	1361.8
32.5°	3999.7	3468.4	2395.5	1546.4	1333.9	1293.7	1288.5	1294.7	1308.1	1316.4	1317.4
35°	4118.4	3479.8	2177.8	1398.9	1281.3	1259.6	1258.6	1262.7	1267.9	1273.1	1274.1
37.5°	4267.9	3530.3	1944.7	1313.3	1247.3	1234.9	1232.8	1231.8	1232.8	1232.8	1233.9
40°	4414.4	3606.7	1736.3	1262.7	1223.5	1213.2	1208.1	1200.8	1199.8	1197.7	1196.7
42.5°	4522.8	3665.5	1570.2	1226.6	1201.9	1189.5	1183.3	1172.0	1170.9	1169.9	1168.9
45°	4604.3	3715.0	1431.9	1191.6	1179.2	1167.8	1154.4	1144.1	1146.2	1148.2	1148.2
47.5°	4696.1	3758.3	1330.8	1158.5	1151.3	1140.0	1123.5	1116.2	1123.5	1130.7	1130.7
50°	4807.5	3819.2	1248.3	1125.5	1122.4	1109.0	1094.6	1091.5	1099.7	1110.1	1110.1
52.5°	4889.0	3871.8	1189.5	1092.5	1092.5	1075.0	1062.6	1061.6	1070.9	1081.2	1082.2
55°	5041.7	3994.6	1168.9	1054.3	1050.2	1036.8	1027.5	1020.3	1031.7	1040.9	1040.9
57.5°	5214.0	4157.6	1174.0	999.7	994.5	990.4	983.2	974.9	978.0	988.3	989.4
60°	4848.8	3841.9	1117.3	945.0	941.9	939.8	930.6	916.1	920.2	928.5	929.5
62.5°	3386.9	2553.3	903.7	876.9	887.2	886.2	873.8	857.3	858.3	869.7	869.7
65°	1757.9	1381.4	793.3	815.0	830.5	824.3	803.7	789.2	787.2	801.6	798.5
67.5°	758.3	754.1	722.2	750.0	766.5	753.1	731.4	707.7	709.8	714.9	710.8
70°	610.7	629.3	642.7	672.6	686.0	661.3	637.6	624.1	612.8	611.8	604.5
72.5°	488.0	513.8	543.7	574.6	578.8	554.0	524.1	511.7	494.2	493.1	485.9
75°	367.3	388.9	412.7	437.4	437.4	413.7	394.1	387.9	367.3	361.1	354.9
77.5°	250.7	264.1	282.7	288.9	295.1	285.8	266.2	255.8	232.1	225.9	217.7
80°	157.8	167.1	178.5	182.6	188.8	177.4	162.0	150.6	134.1	129.0	124.8
82.5°	94.9	101.1	108.3	110.4	115.5	107.3	92.8	84.6	75.3	71.2	68.1
85°	48.5	51.6	55.7	56.7	55.7	47.5	42.3	38.2	32.0	30.9	28.9
87.5°	12.4	14.4	15.5	14.4	13.4	10.3	7.2	5.2	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)