

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: P636879

Luminaire Tested: GWS-SA4B-760-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636879
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-SA4B-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12229.3 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

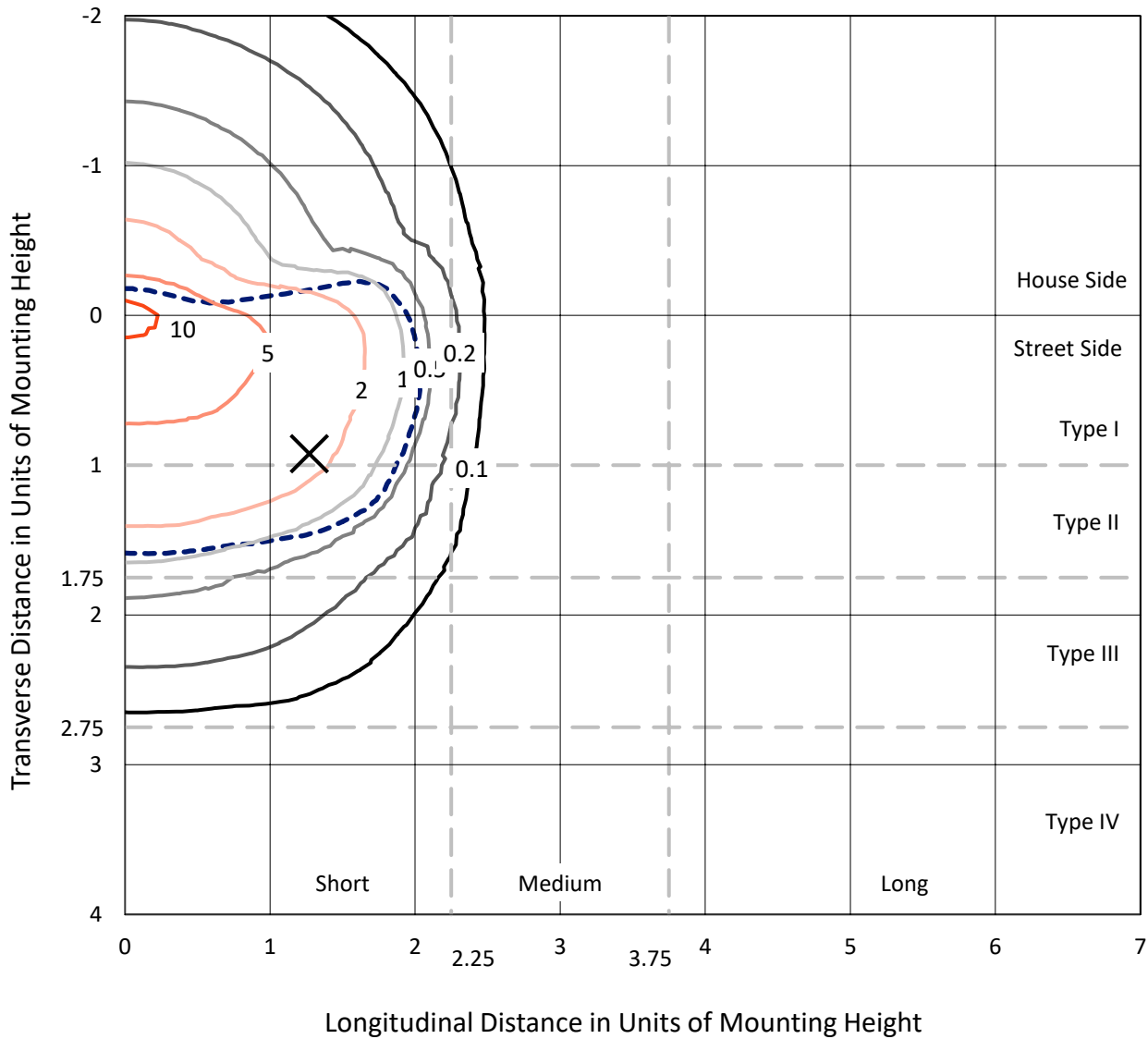
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

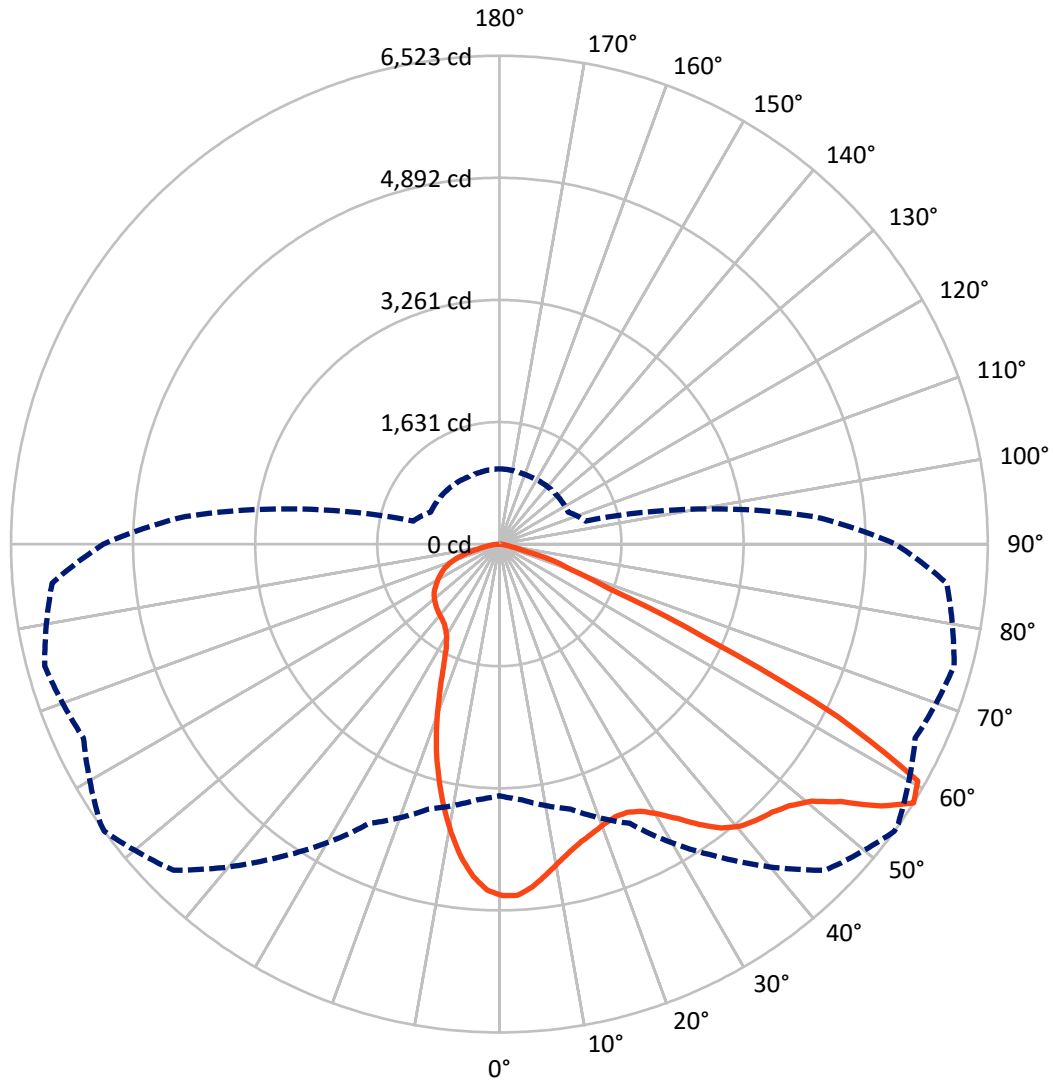
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 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	3555.2	0.0	3555.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8674.1	0.0	8674.1
	% Fixture	70.9	0.0	70.9
Total	Lumens	12229.3	0.0	12229.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.7	3.4
10°-20°	984.7	8.1
20°-30°	1362.7	11.1
30°-40°	1893.5	15.5
40°-50°	2500.8	20.4
50°-60°	2971.8	24.3
60°-70°	1646.4	13.5
70°-80°	410.0	3.4
80°-90°	46.6	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°	12229.3	100.0
0°-180°	12229.3	100.0

Coefficient of Utilization



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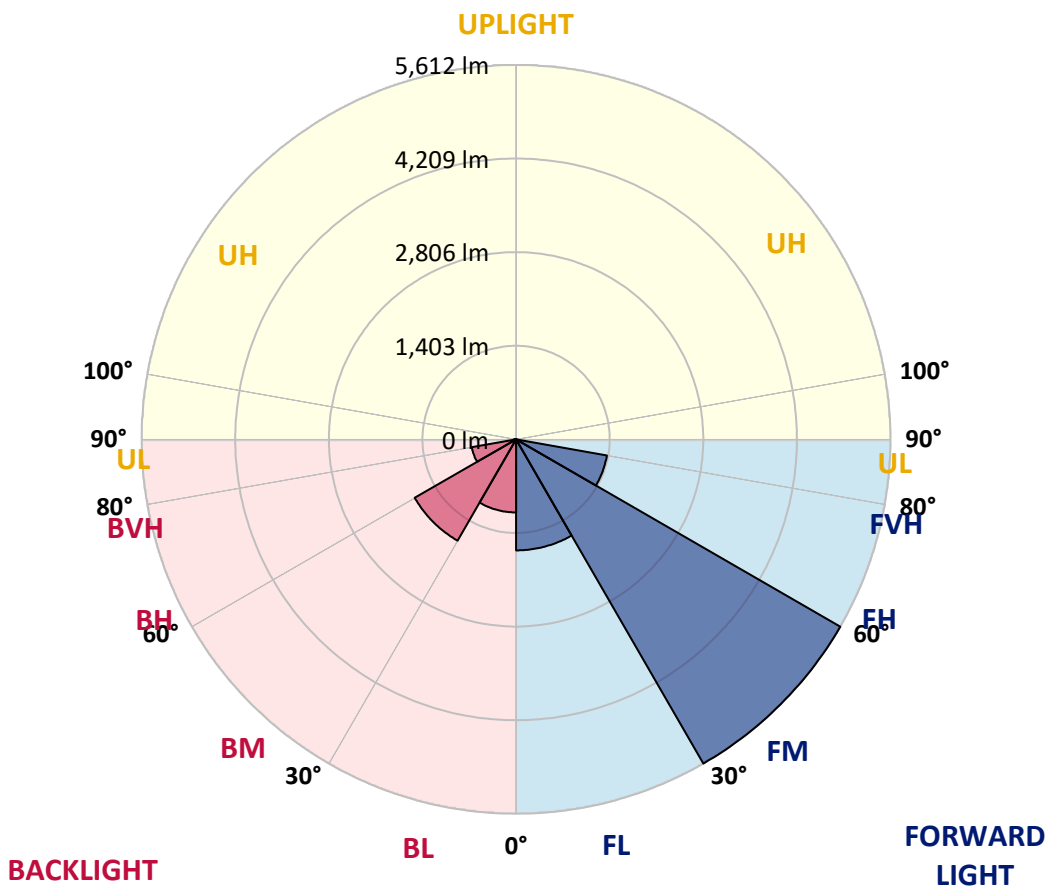
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.6	13.6			
FM (30°-60°)	5612.2	45.9			
FH (60°-80°)	1382.7	11.3			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	1095.6	9.0	B3/2500		
BM (30°-60°)	1753.9	14.3	B2/2500		
BH (60°-80°)	673.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1
2.5°	4607.2	4616.6	4622.9	4644.9	4663.7	4680.5	4698.2	4698.2	4697.2	4694.1	4687.8
5°	4425.0	4435.5	4450.1	4480.5	4521.3	4550.6	4598.8	4603.0	4623.9	4632.3	4628.1
7.5°	4213.6	4216.7	4235.5	4275.3	4340.2	4392.6	4461.7	4470.0	4520.3	4549.6	4544.4
10°	3982.2	3971.7	4005.2	4063.9	4148.7	4236.6	4325.6	4332.9	4413.5	4469.0	4464.8
12.5°	3770.7	3771.8	3805.3	3876.5	3982.2	4091.1	4210.4	4227.2	4326.6	4397.8	4390.5
15°	3593.8	3598.0	3638.8	3719.4	3839.8	3969.6	4118.3	4134.0	4259.6	4353.8	4332.9
17.5°	3452.5	3456.7	3492.3	3584.4	3713.2	3870.2	4051.3	4067.0	4223.0	4335.0	4292.1
20°	3355.1	3353.0	3387.6	3475.5	3608.5	3779.1	3992.7	4015.7	4211.5	4342.3	4264.9
22.5°	3315.4	3314.3	3339.4	3411.7	3536.2	3709.0	3957.1	3988.5	4224.0	4374.8	4248.1
25°	3335.3	3331.1	3353.0	3406.4	3505.9	3681.8	3967.5	4001.0	4277.4	4441.8	4251.2
27.5°	3397.0	3391.8	3410.6	3458.8	3534.2	3710.0	4040.8	4079.6	4390.5	4564.3	4293.1
30°	3491.2	3488.1	3506.9	3553.0	3618.9	3804.2	4181.1	4225.1	4565.3	4754.8	4384.2
32.5°	3601.2	3595.9	3629.4	3682.8	3759.2	3975.9	4369.5	4427.1	4772.6	4999.7	4537.0
35°	3724.7	3720.5	3766.6	3844.0	3953.9	4214.6	4597.7	4660.6	4984.0	5277.2	4740.1
37.5°	3845.1	3845.1	3934.0	4049.2	4187.4	4474.2	4812.4	4852.1	5130.6	5523.2	4957.9
40°	3951.8	3958.1	4092.1	4264.9	4440.7	4708.7	4953.7	4987.2	5195.5	5692.8	5147.3
42.5°	4070.1	4075.4	4231.4	4457.5	4666.8	4898.2	5039.5	5056.3	5208.1	5777.5	5281.3
45°	4164.4	4171.7	4365.3	4607.2	4863.6	5040.6	5107.6	5122.2	5225.9	5823.6	5378.7
47.5°	4213.6	4224.0	4446.0	4727.6	4996.6	5168.3	5219.6	5225.9	5299.1	5904.2	5495.9
50°	4205.2	4226.1	4476.3	4787.2	5095.0	5297.0	5399.6	5410.1	5448.8	6022.5	5633.1
52.5°	4279.5	4288.9	4541.2	4858.4	5235.3	5534.7	5712.6	5727.3	5709.5	6111.5	5714.7
55°	4156.0	4201.0	4460.6	4847.9	5448.8	5902.1	6176.4	6169.1	5946.1	6210.9	5850.8
57.5°	3361.4	3427.4	3665.0	4115.2	5097.1	6159.6	6522.9	6505.1	6129.3	6287.4	5998.4
60°	2327.1	2337.6	2552.2	2871.5	3934.0	5441.5	6421.4	6460.1	6162.8	6191.0	5725.2
62.5°	1861.3	1858.2	1878.0	1886.4	2502.0	3825.2	5068.8	5210.2	5120.1	4823.9	4057.6
65°	1589.1	1600.6	1659.3	1628.9	1633.1	2154.4	3028.5	3048.4	2985.6	2878.8	2146.0
67.5°	1243.7	1263.5	1367.2	1485.5	1447.8	1387.1	1571.3	1561.9	1231.1	952.6	787.2
70°	778.9	791.4	902.4	1166.2	1260.4	1139.0	1010.2	1006.0	659.5	542.3	594.6
72.5°	454.3	456.4	487.8	650.1	836.4	778.9	743.3	716.0	424.0	432.3	474.2
75°	250.2	250.2	249.1	280.6	329.8	292.1	282.6	275.3	283.7	321.4	352.8
77.5°	52.3	53.4	56.5	74.3	96.3	117.2	147.6	148.7	185.3	214.6	239.7
80°	24.1	25.1	31.4	39.8	51.3	68.0	90.0	91.1	112.0	135.0	151.8
82.5°	12.6	13.6	16.7	20.9	27.2	35.6	50.2	50.2	67.0	79.6	90.0
85°	4.2	4.2	6.3	8.4	11.5	14.7	19.9	19.9	29.3	38.7	45.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	6.3	10.5
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°	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1	4695.1
2.5°	4674.2	4641.7	4642.8	4649.0	4629.2	4598.8	4578.9	4553.8	4538.1	4534.9	4546.5
5°	4607.2	4569.5	4543.3	4516.1	4459.6	4392.6	4340.2	4297.3	4269.0	4258.6	4246.0
7.5°	4515.0	4465.8	4399.9	4323.5	4220.9	4101.5	4017.8	3939.3	3884.8	3869.1	3861.8
10°	4422.9	4351.7	4234.5	4092.1	3921.5	3760.3	3608.5	3492.3	3400.2	3347.8	3364.6
12.5°	4327.7	4239.7	4056.5	3837.7	3600.1	3357.2	3158.3	2965.7	2817.1	2742.7	2720.8
15°	4243.9	4124.6	3869.1	3572.9	3256.7	2951.1	2663.2	2374.2	2185.8	2083.2	2055.0
17.5°	4172.7	4017.8	3671.3	3302.8	2924.9	2489.4	2135.6	1867.6	1738.8	1682.3	1678.1
20°	4102.6	3913.1	3475.5	3011.8	2541.7	2053.9	1737.8	1612.1	1566.1	1546.2	1545.1
22.5°	4039.8	3803.2	3269.3	2720.8	2160.7	1726.2	1552.5	1498.0	1485.5	1485.5	1483.4
25°	3986.4	3693.3	3057.8	2411.9	1816.3	1536.8	1456.2	1433.1	1438.4	1447.8	1448.8
27.5°	3964.4	3607.4	2853.7	2094.7	1578.6	1426.9	1390.2	1387.1	1401.7	1416.4	1418.5
30°	3987.4	3548.8	2644.3	1791.2	1436.3	1359.9	1343.1	1349.4	1367.2	1381.8	1381.8
32.5°	4058.6	3519.5	2430.8	1569.2	1353.6	1312.7	1307.5	1313.8	1327.4	1335.8	1336.8
35°	4179.0	3531.0	2209.9	1419.5	1300.2	1278.2	1277.2	1281.3	1286.6	1291.8	1292.9
37.5°	4330.8	3582.3	1973.3	1332.6	1265.6	1253.1	1251.0	1249.9	1251.0	1251.0	1252.0
40°	4479.5	3659.8	1761.8	1281.3	1241.6	1231.1	1225.9	1218.5	1217.5	1215.4	1214.3
42.5°	4589.4	3719.4	1593.3	1244.7	1219.6	1207.0	1200.7	1189.2	1188.2	1187.1	1186.1
45°	4672.1	3769.7	1453.0	1209.1	1196.5	1185.0	1171.4	1161.0	1163.0	1165.1	1165.1
47.5°	4765.2	3813.7	1350.4	1175.6	1168.3	1156.8	1140.0	1132.7	1140.0	1147.3	1147.3
50°	4878.3	3875.4	1266.7	1142.1	1139.0	1125.4	1110.7	1107.6	1115.9	1126.4	1126.4
52.5°	4961.0	3928.8	1207.0	1108.6	1108.6	1090.8	1078.3	1077.2	1086.6	1097.1	1098.1
55°	5115.9	4053.4	1186.1	1069.9	1065.7	1052.1	1042.7	1035.3	1046.8	1056.3	1056.3
57.5°	5290.8	4218.8	1191.3	1014.4	1009.2	1005.0	997.6	989.3	992.4	1002.9	1003.9
60°	4920.2	3898.5	1133.7	958.9	955.8	953.7	944.3	929.6	933.8	942.2	943.2
62.5°	3436.8	2590.9	917.0	889.8	900.3	899.2	886.7	869.9	871.0	882.5	882.5
65°	1783.8	1401.7	805.0	827.0	842.7	836.4	815.5	800.8	798.7	813.4	810.3
67.5°	769.4	765.2	732.8	761.1	777.8	764.2	742.2	718.1	720.2	725.5	721.3
70°	619.7	638.6	652.2	682.5	696.2	671.0	647.0	633.3	621.8	620.8	613.5
72.5°	495.2	521.3	551.7	583.1	587.3	562.2	531.8	519.2	501.4	500.4	493.1
75°	372.7	394.7	418.7	443.9	443.9	419.8	399.9	393.6	372.7	366.4	360.1
77.5°	254.4	268.0	286.8	293.1	299.4	290.0	270.1	259.6	235.5	229.3	220.9
80°	160.2	169.6	181.1	185.3	191.6	180.1	164.4	152.8	136.1	130.9	126.7
82.5°	96.3	102.6	109.9	112.0	117.2	108.9	94.2	85.8	76.4	72.2	69.1
85°	49.2	52.3	56.5	57.6	56.5	48.2	42.9	38.7	32.5	31.4	29.3
87.5°	12.6	14.7	15.7	14.7	13.6	10.5	7.3	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)