

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: P636765

Luminaire Tested: GWS-SA4B-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636765
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12328 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

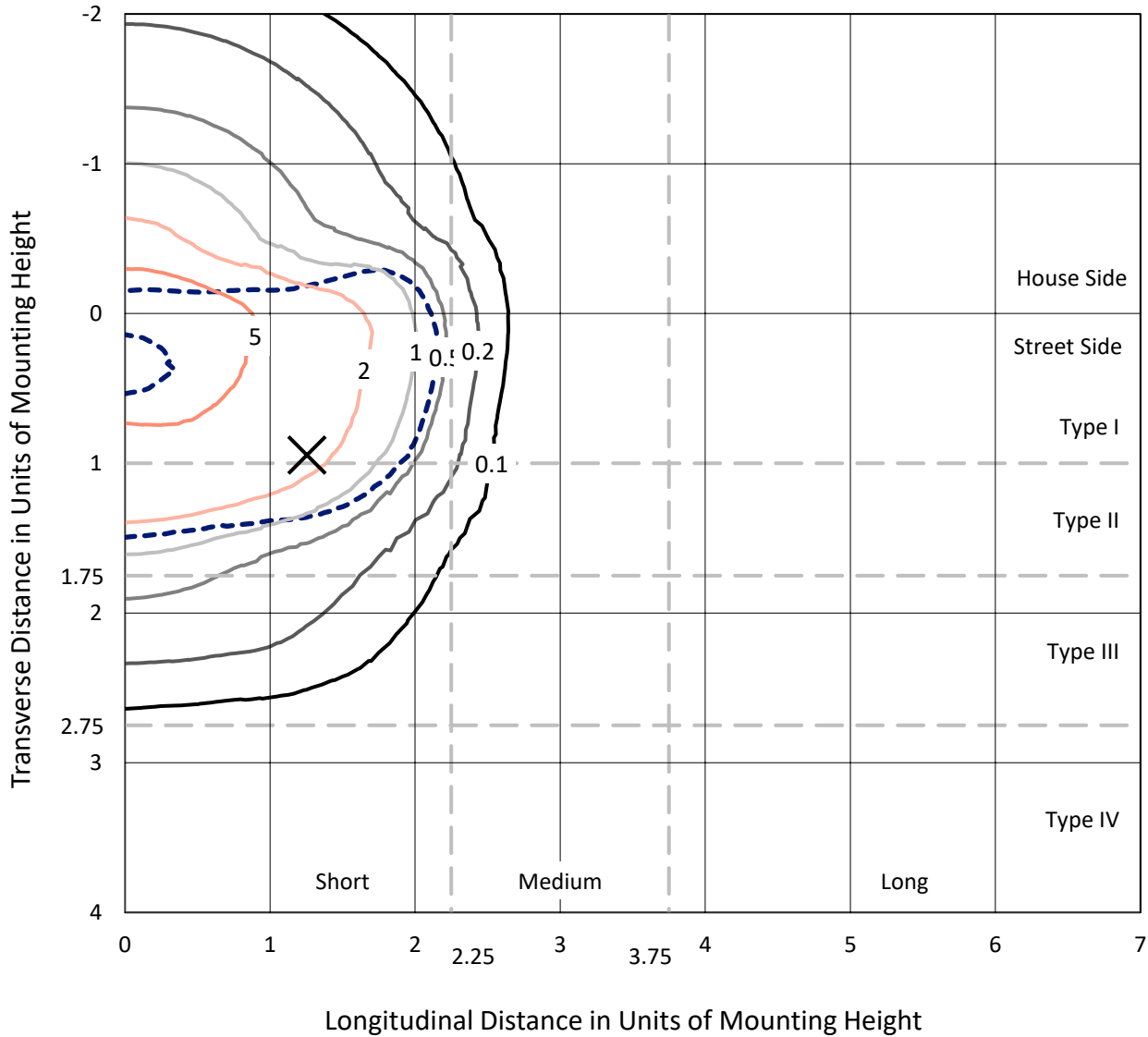
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636765
 CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

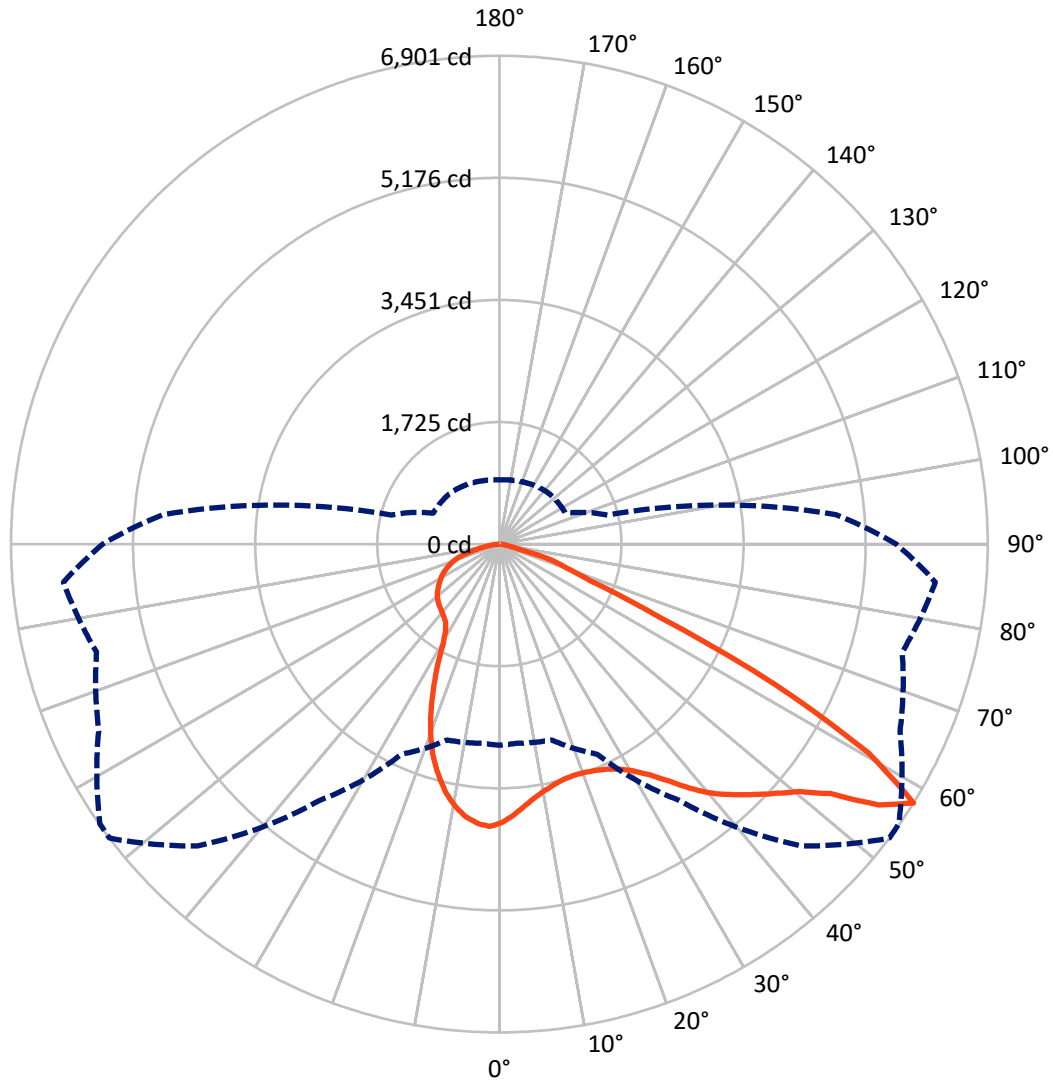
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P636765
CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636765

CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3854.5	0.0	3854.5
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8473.5	0.0	8473.5
	% Fixture	68.7	0.0	68.7
Total	Lumens	12328.0	0.0	12328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	2.9
10°-20°	934.0	7.6
20°-30°	1376.1	11.2
30°-40°	1926.1	15.6
40°-50°	2532.0	20.5
50°-60°	2968.8	24.1
60°-70°	1748.9	14.2
70°-80°	435.1	3.5
80°-90°	51.0	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°	12328.0	100.0
0°-180°	12328.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636765

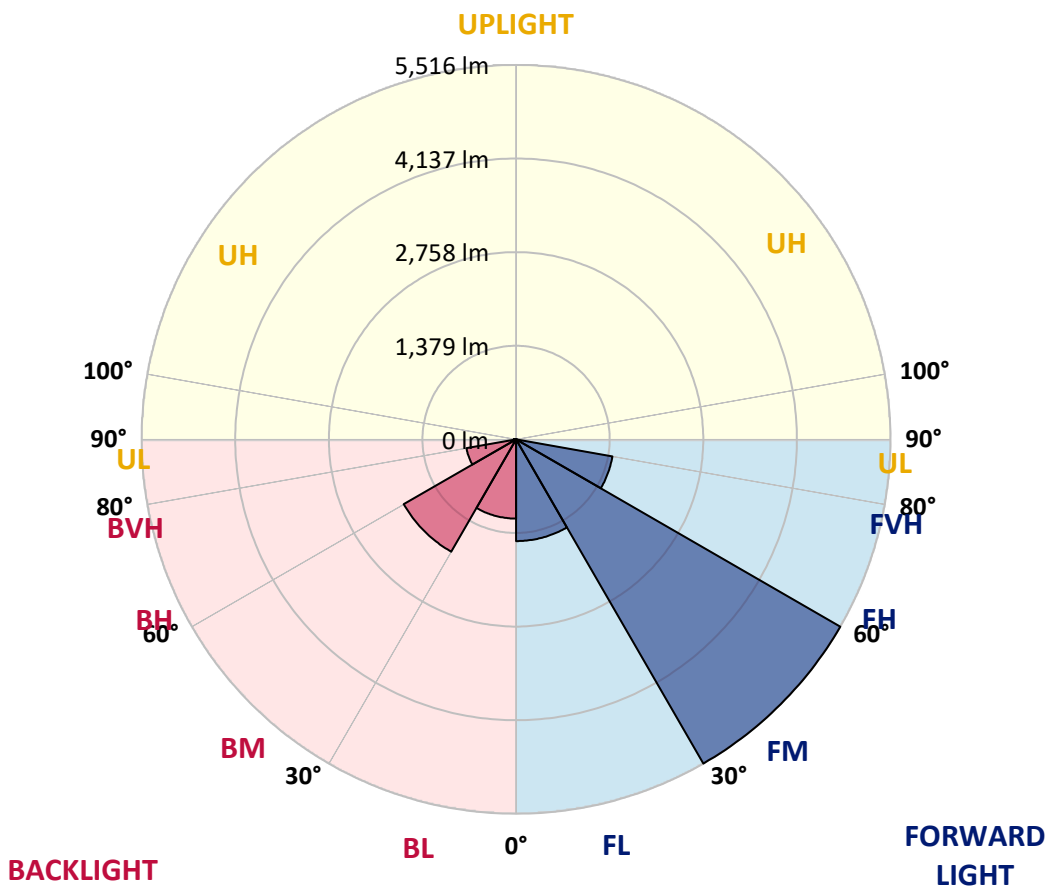
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.8	12.2			
FM (30°-60°)	5515.7	44.7			
FH (60°-80°)	1441.9	11.7			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1167.2	9.5	B3/2500		
BM (30°-60°)	1911.3	15.5	B2/2500		
BH (60°-80°)	742.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	34.0	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





REPORT NUMBER: P636765

CATALOG NUMBER: GWS-SA4B-740-U-SL2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7
2.5°	3710.5	3720.8	3722.9	3755.1	3757.2	3803.9	3835.0	3828.8	3860.9	3900.3	3931.5
5°	3533.0	3534.1	3544.4	3582.8	3603.6	3664.8	3716.7	3716.7	3778.9	3859.9	3929.4
7.5°	3386.7	3385.7	3395.0	3437.6	3471.8	3545.5	3616.0	3624.3	3711.5	3829.8	3942.9
10°	3250.8	3258.1	3268.4	3320.3	3363.9	3455.2	3539.3	3552.8	3662.7	3809.0	3961.6
12.5°	3163.6	3164.7	3180.3	3238.4	3294.4	3391.9	3480.1	3496.7	3623.3	3789.3	3975.1
15°	3107.6	3108.7	3125.3	3189.6	3255.0	3353.5	3443.8	3462.5	3600.5	3786.2	4001.0
17.5°	3082.7	3081.7	3097.2	3161.6	3233.2	3335.9	3432.4	3455.2	3610.9	3810.1	4046.6
20°	3082.7	3083.8	3092.1	3150.2	3222.8	3331.7	3443.8	3471.8	3651.3	3864.0	4117.2
22.5°	3126.3	3130.4	3134.6	3174.0	3231.1	3338.0	3473.9	3511.2	3738.5	3954.3	4209.6
25°	3211.4	3212.4	3216.6	3248.7	3274.7	3355.6	3523.7	3579.7	3874.4	4086.1	4325.8
27.5°	3325.5	3340.0	3344.2	3364.9	3364.9	3399.2	3601.5	3682.5	4058.1	4276.0	4474.1
30°	3485.3	3490.5	3497.8	3520.6	3495.7	3481.2	3715.7	3819.4	4270.8	4505.3	4652.6
32.5°	3625.4	3636.8	3676.2	3713.6	3669.0	3623.3	3883.7	4006.2	4475.2	4743.9	4842.5
35°	3744.7	3772.7	3848.5	3931.5	3900.3	3854.7	4106.8	4234.5	4643.3	4915.1	5010.6
37.5°	3888.9	3910.7	4014.5	4149.4	4177.4	4155.6	4378.7	4470.0	4755.3	4958.7	5101.9
40°	4035.2	4068.4	4202.3	4389.1	4495.9	4511.5	4629.8	4691.0	4793.7	4873.6	5084.3
42.5°	4184.7	4241.7	4425.4	4643.3	4833.2	4868.4	4841.5	4867.4	4781.3	4756.4	5002.3
45°	4367.3	4434.7	4642.2	4920.3	5170.4	5225.4	5049.0	5025.1	4779.2	4711.8	4951.4
47.5°	4583.1	4650.5	4848.7	5172.4	5492.0	5532.5	5261.7	5218.1	4851.8	4780.2	5019.9
50°	4774.0	4820.7	4998.1	5360.3	5791.9	5815.8	5496.2	5443.3	5032.4	4970.1	5233.7
52.5°	4580.0	4574.8	4761.6	5207.7	5947.5	6235.0	5857.3	5806.4	5381.0	5285.5	5564.7
55°	3885.8	3826.7	3993.7	4432.6	5512.8	6607.5	6504.7	6403.0	5845.9	5603.1	5874.9
57.5°	2841.0	2824.4	2864.8	3276.7	4416.0	6030.5	6901.1	6891.8	6247.4	5893.6	6184.1
60°	2221.5	2196.6	2088.7	2100.1	3010.1	4710.7	5989.0	6264.0	6496.4	6067.9	6399.9
62.5°	1972.5	1953.8	1897.8	1743.2	1793.0	3158.5	4390.1	4642.2	5676.7	5359.2	5497.2
65°	1633.2	1628.0	1674.7	1668.5	1502.4	1744.2	2477.8	2732.0	3569.4	3614.0	3569.4
67.5°	1187.0	1177.7	1296.0	1529.4	1446.4	1316.7	1381.0	1469.2	1830.3	1643.6	1479.6
70°	772.0	758.5	827.0	1105.0	1294.9	1147.6	995.1	980.5	1006.5	625.7	676.5
72.5°	517.8	502.2	501.2	608.0	782.4	773.0	770.9	763.7	681.7	493.9	547.9
75°	288.5	276.0	272.9	262.5	280.2	285.3	304.0	314.4	340.3	374.6	415.0
77.5°	48.8	47.7	60.2	76.8	105.8	135.9	168.1	177.4	218.9	259.4	285.3
80°	27.0	28.0	36.3	44.6	59.1	80.9	103.8	110.0	134.9	156.7	177.4
82.5°	14.5	14.5	18.7	23.9	32.2	42.5	56.0	61.2	77.8	91.3	105.8
85°	5.2	5.2	7.3	9.3	13.5	17.6	21.8	24.9	34.2	46.7	52.9
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	9.3	13.5
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: P636765

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7	3936.7
2.5°	3957.4	3929.4	3967.8	3985.4	3991.7	3995.8	3968.8	3950.2	3943.9	3924.2	3912.8
5°	3971.9	3953.3	3989.6	3989.6	3963.6	3936.7	3881.7	3843.3	3816.3	3784.1	3778.9
7.5°	3996.8	3983.4	4003.1	3962.6	3897.2	3824.6	3729.1	3654.4	3594.3	3554.8	3555.9
10°	4030.0	4013.4	3997.9	3907.6	3788.3	3654.4	3508.1	3399.2	3299.6	3253.9	3229.0
12.5°	4051.8	4028.0	3962.6	3813.2	3637.8	3458.3	3251.8	3090.0	2945.8	2880.4	2875.2
15°	4078.8	4035.2	3904.5	3690.8	3446.9	3202.0	2936.4	2711.3	2516.2	2414.5	2409.3
17.5°	4114.1	4042.5	3835.0	3550.7	3245.6	2884.5	2550.4	2267.2	2059.6	1980.8	1994.3
20°	4163.9	4050.8	3756.1	3395.0	2995.6	2523.4	2107.4	1846.9	1767.0	1761.8	1751.5
22.5°	4219.9	4056.0	3669.0	3220.7	2692.6	2138.5	1741.1	1630.1	1629.0	1655.0	1661.2
25°	4283.2	4060.1	3570.4	3017.3	2364.7	1754.6	1539.8	1506.6	1532.5	1581.3	1587.5
27.5°	4364.2	4068.4	3451.1	2794.3	2016.1	1515.9	1428.8	1420.5	1451.6	1497.3	1495.2
30°	4483.5	4098.5	3324.5	2538.0	1658.1	1402.8	1361.3	1362.4	1374.8	1396.6	1399.7
32.5°	4604.9	4145.2	3201.0	2249.5	1452.6	1338.5	1319.8	1317.8	1317.8	1327.1	1329.2
35°	4720.1	4198.1	3067.2	1948.6	1353.0	1301.2	1288.7	1282.5	1279.4	1277.3	1274.2
37.5°	4784.4	4224.1	2936.4	1651.9	1300.1	1276.3	1263.8	1255.5	1244.1	1235.8	1233.7
40°	4756.4	4194.0	2784.9	1429.8	1268.0	1252.4	1237.9	1226.4	1210.9	1203.6	1199.5
42.5°	4663.0	4100.6	2619.9	1325.0	1242.0	1226.4	1208.8	1190.1	1179.8	1173.5	1172.5
45°	4564.4	3987.5	2420.7	1263.8	1217.1	1198.4	1177.7	1156.9	1145.5	1142.4	1141.4
47.5°	4561.3	3931.5	2209.1	1215.0	1187.0	1168.3	1142.4	1121.6	1109.2	1105.0	1100.9
50°	4698.3	3988.5	1970.4	1172.5	1155.9	1136.2	1107.1	1084.3	1068.7	1063.5	1062.5
52.5°	4982.6	4203.3	1756.7	1129.9	1114.4	1091.6	1067.7	1044.9	1026.2	1016.9	1015.8
55°	5289.7	4476.2	1623.8	1086.4	1065.6	1045.9	1024.1	999.2	978.5	963.9	961.9
57.5°	5607.2	4774.0	1583.4	1031.4	1015.8	1002.3	976.4	949.4	925.5	912.1	908.9
60°	5868.7	5030.3	1659.1	973.3	965.0	947.3	923.5	897.5	880.9	870.5	868.5
62.5°	4913.0	4095.4	1339.5	910.0	910.0	891.3	864.3	845.6	834.2	827.0	824.9
65°	3118.0	2535.9	914.1	846.7	845.6	820.7	797.9	785.5	780.3	768.9	766.8
67.5°	1358.2	1159.0	781.3	782.4	778.2	751.2	728.4	719.1	708.7	696.2	695.2
70°	704.5	718.0	699.3	710.8	703.5	671.3	649.5	635.0	613.2	600.8	601.8
72.5°	568.6	583.1	603.9	621.5	606.0	580.0	545.8	528.1	500.1	486.6	487.7
75°	433.7	449.3	469.0	487.7	475.2	443.1	421.3	403.6	371.5	355.9	359.0
77.5°	298.8	307.1	331.0	330.0	325.8	316.5	284.3	263.6	230.3	211.7	213.7
80°	185.7	190.9	202.3	207.5	205.4	193.0	167.1	151.5	131.8	120.4	121.4
82.5°	112.1	115.2	125.5	126.6	125.5	116.2	96.5	85.1	72.6	66.4	66.4
85°	57.1	59.1	65.4	65.4	59.1	49.8	44.6	39.4	32.2	29.1	29.1
87.5°	15.6	15.6	19.7	16.6	13.5	12.5	6.2	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)