

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: P636714

Luminaire Tested: GWS-SA4B-735-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636714
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11955.4 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

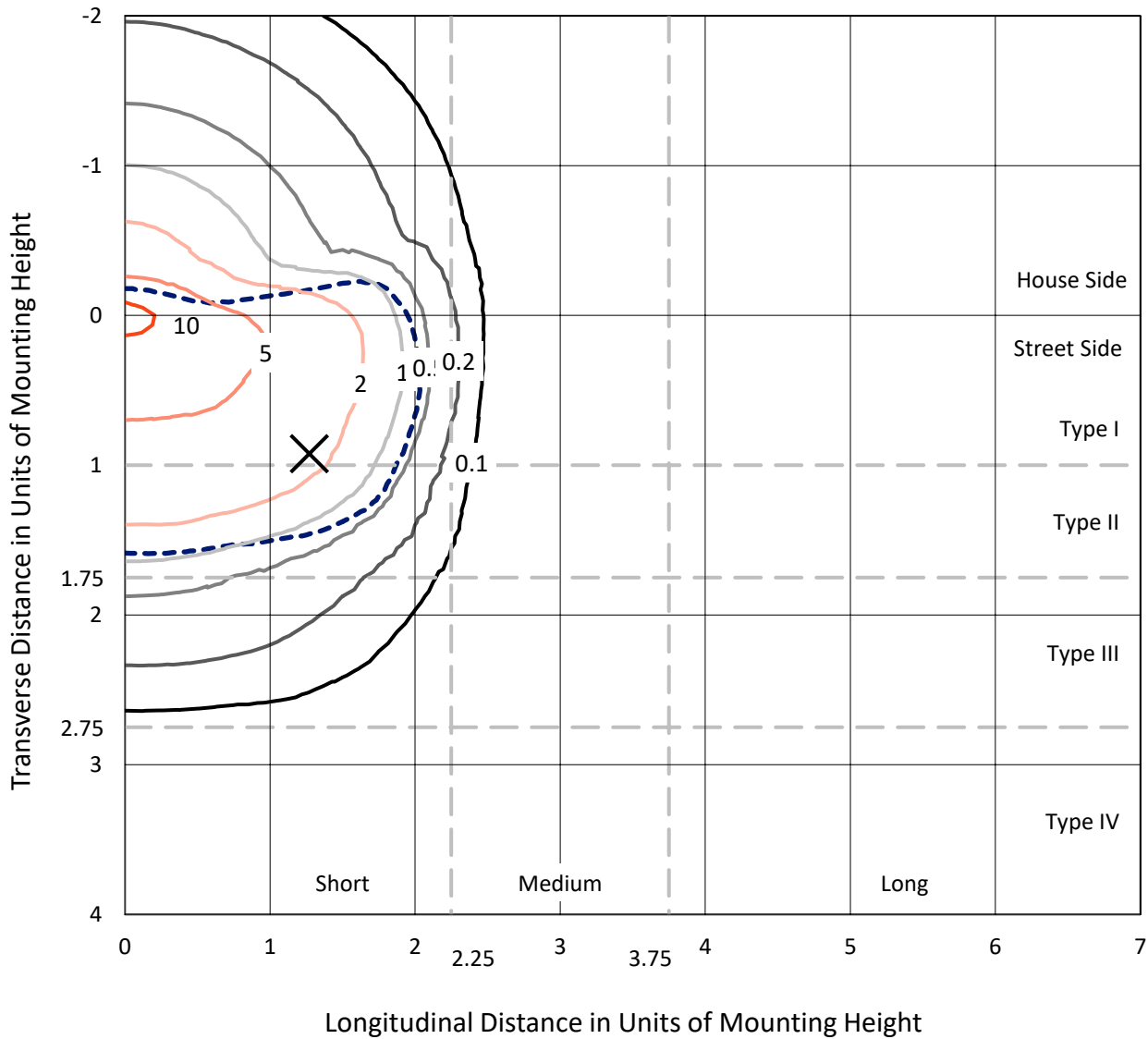
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

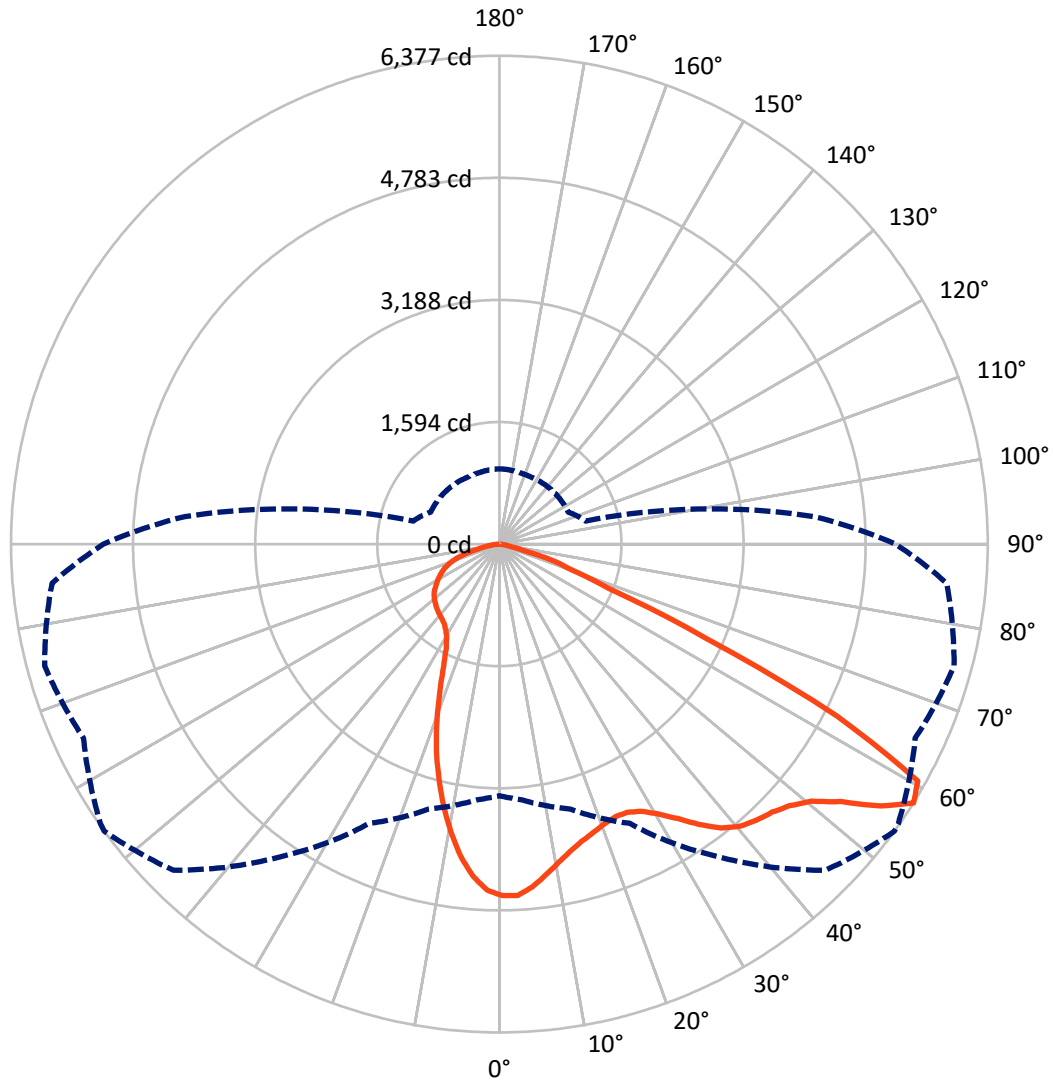
✕ Max cd
 - - - 1/2 Max cd



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	3475.6	0.0	3475.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	8479.8	0.0	8479.8
	% Fixture	70.9	0.0	70.9
Total	Lumens	11955.4	0.0	11955.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	3.4
10°-20°	962.7	8.1
20°-30°	1332.2	11.1
30°-40°	1851.1	15.5
40°-50°	2444.8	20.4
50°-60°	2905.2	24.3
60°-70°	1609.6	13.5
70°-80°	400.8	3.4
80°-90°	45.6	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°	11955.4	100.0
0°-180°	11955.4	100.0

Coefficient of Utilization



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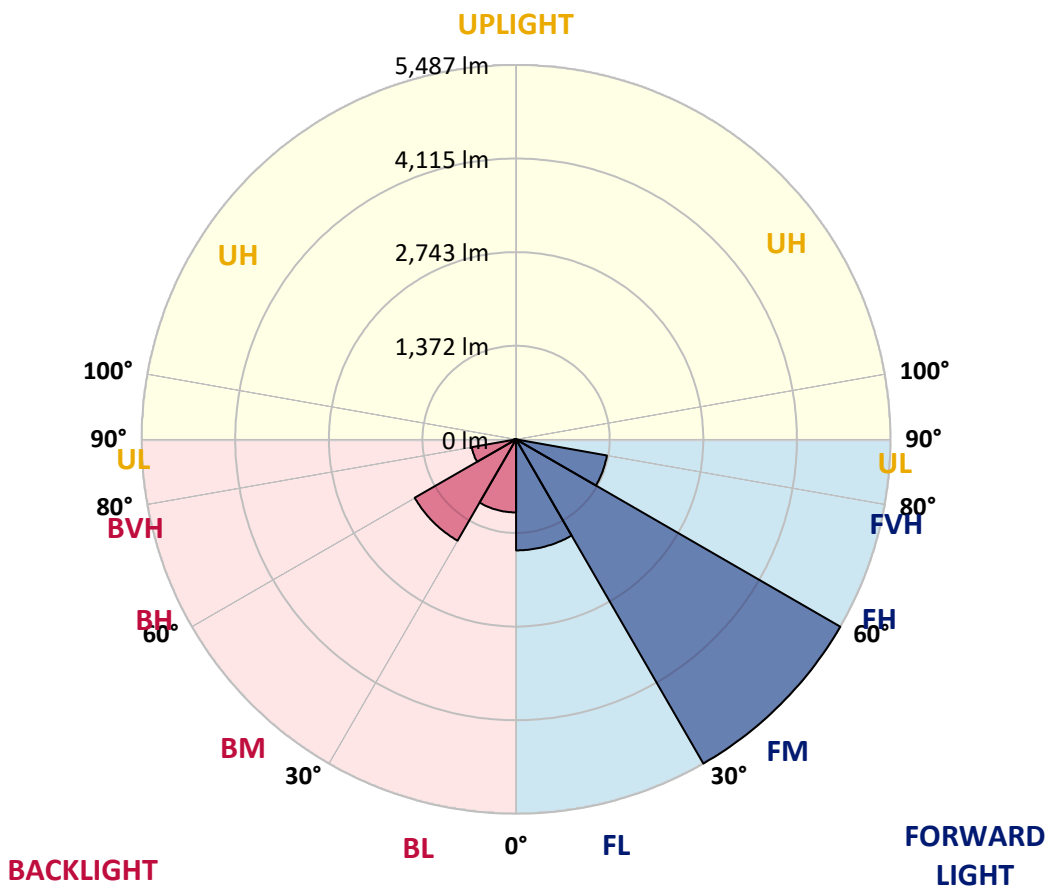
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.3	13.6			
FM (30°-60°)	5486.5	45.9			
FH (60°-80°)	1351.7	11.3			G1/1800
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1071.0	9.0	B3/2500		
BM (30°-60°)	1714.6	14.3	B2/2500		
BH (60°-80°)	658.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	31.3	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9
2.5°	4504.0	4513.2	4519.3	4540.8	4559.2	4575.6	4593.0	4593.0	4592.0	4588.9	4582.8
5°	4325.9	4336.1	4350.5	4380.2	4420.1	4448.7	4495.8	4499.9	4520.4	4528.5	4524.5
7.5°	4119.2	4122.3	4140.7	4179.6	4243.0	4294.2	4361.7	4369.9	4419.0	4447.7	4442.6
10°	3893.0	3882.8	3915.5	3972.8	4055.7	4141.7	4228.7	4235.9	4314.7	4368.9	4364.8
12.5°	3686.3	3687.3	3720.1	3789.7	3893.0	3999.4	4116.1	4132.5	4229.7	4299.3	4292.1
15°	3513.3	3517.4	3557.3	3636.1	3753.8	3880.7	4026.1	4041.4	4164.2	4256.3	4235.9
17.5°	3375.2	3379.3	3414.1	3504.1	3630.0	3783.5	3960.6	3975.9	4128.4	4237.9	4195.9
20°	3280.0	3278.0	3311.7	3397.7	3527.7	3694.5	3903.2	3925.8	4117.1	4245.1	4169.3
22.5°	3241.1	3240.1	3264.6	3335.3	3457.0	3625.9	3868.5	3899.2	4129.4	4276.8	4153.0
25°	3260.6	3256.5	3278.0	3330.1	3427.4	3599.3	3878.7	3911.4	4181.6	4342.3	4156.0
27.5°	3320.9	3315.8	3334.2	3381.3	3455.0	3626.9	3950.3	3988.2	4292.1	4462.0	4197.0
30°	3413.0	3410.0	3428.4	3473.4	3537.9	3719.0	4087.5	4130.4	4463.0	4648.3	4286.0
32.5°	3520.5	3515.4	3548.1	3600.3	3675.0	3886.9	4271.7	4328.0	4665.7	4887.8	4435.4
35°	3641.3	3637.2	3682.2	3757.9	3865.4	4120.2	4494.8	4556.2	4872.4	5159.0	4634.0
37.5°	3758.9	3758.9	3845.9	3958.5	4093.6	4374.0	4704.6	4743.5	5015.7	5399.5	4846.8
40°	3863.3	3869.5	4000.5	4169.3	4341.3	4603.3	4842.7	4875.5	5079.1	5565.2	5032.1
42.5°	3979.0	3984.1	4136.6	4357.6	4562.3	4788.5	4926.6	4943.0	5091.4	5648.1	5163.1
45°	4071.1	4078.2	4267.6	4504.0	4754.7	4927.7	4993.2	5007.5	5108.8	5693.2	5258.2
47.5°	4119.2	4129.4	4346.4	4621.7	4884.7	5052.5	5102.7	5108.8	5180.5	5772.0	5372.9
50°	4111.0	4131.5	4376.1	4680.0	4980.9	5178.4	5278.7	5288.9	5326.8	5887.6	5506.9
52.5°	4183.7	4192.9	4439.5	4749.6	5118.0	5410.7	5584.7	5599.0	5581.6	5974.6	5586.7
55°	4062.9	4106.9	4360.7	4739.4	5326.8	5769.9	6038.1	6030.9	5812.9	6071.8	5719.8
57.5°	3286.1	3350.6	3582.9	4023.0	4982.9	6021.7	6376.8	6359.4	5992.0	6146.5	5864.1
60°	2275.0	2285.3	2495.0	2807.2	3845.9	5319.6	6277.5	6315.4	6024.8	6052.4	5597.0
62.5°	1819.6	1816.5	1836.0	1844.2	2445.9	3739.5	4955.3	5093.5	5005.5	4715.8	3966.7
65°	1553.5	1564.8	1622.1	1592.4	1596.5	2106.2	2960.7	2980.1	2918.7	2814.4	2098.0
67.5°	1215.8	1235.2	1336.6	1452.2	1415.4	1356.0	1536.1	1526.9	1203.5	931.3	769.6
70°	761.4	773.7	882.2	1140.1	1232.2	1113.5	987.6	983.5	644.7	530.1	581.3
72.5°	444.2	446.2	476.9	635.5	817.7	761.4	726.6	700.0	414.5	422.7	463.6
75°	244.6	244.6	243.6	274.3	322.4	285.5	276.3	269.2	277.3	314.2	344.9
77.5°	51.2	52.2	55.3	72.7	94.2	114.6	144.3	145.3	181.1	209.8	234.4
80°	23.5	24.6	30.7	38.9	50.1	66.5	88.0	89.0	109.5	132.0	148.4
82.5°	12.3	13.3	16.4	20.5	26.6	34.8	49.1	49.1	65.5	77.8	88.0
85°	4.1	4.1	6.1	8.2	11.3	14.3	19.4	19.4	28.7	37.9	44.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.1	4.1	5.1	6.1	10.2
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°	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9	4589.9
2.5°	4569.5	4537.8	4538.8	4544.9	4525.5	4495.8	4476.4	4451.8	4436.4	4433.4	4444.6
5°	4504.0	4467.1	4441.6	4414.9	4359.7	4294.2	4243.0	4201.1	4173.4	4163.2	4150.9
7.5°	4413.9	4365.8	4301.4	4226.6	4126.3	4009.7	3927.8	3851.1	3797.8	3782.5	3775.3
10°	4323.9	4254.3	4139.7	4000.5	3833.7	3676.1	3527.7	3414.1	3324.0	3272.8	3289.2
12.5°	4230.7	4144.8	3965.7	3751.8	3519.5	3282.0	3087.6	2899.3	2754.0	2681.3	2659.8
15°	4148.9	4032.2	3782.5	3492.9	3183.8	2885.0	2603.5	2321.1	2136.9	2036.6	2008.9
17.5°	4079.3	3927.8	3589.1	3228.8	2859.4	2433.6	2087.7	1825.7	1699.9	1644.6	1640.5
20°	4010.7	3825.5	3397.7	2944.3	2484.8	2007.9	1698.8	1576.0	1531.0	1511.6	1510.5
22.5°	3949.3	3718.0	3196.1	2659.8	2112.3	1687.6	1517.7	1464.5	1452.2	1452.2	1450.2
25°	3897.1	3610.6	2989.4	2357.9	1775.6	1502.4	1423.5	1401.0	1406.2	1415.4	1416.4
27.5°	3875.6	3526.6	2789.8	2047.8	1543.3	1394.9	1359.1	1356.0	1370.3	1384.7	1386.7
30°	3898.1	3469.3	2585.1	1751.0	1404.1	1329.4	1313.0	1319.2	1336.6	1350.9	1350.9
32.5°	3967.7	3440.7	2376.3	1534.1	1323.3	1283.3	1278.2	1284.4	1297.7	1305.9	1306.9
35°	4085.4	3451.9	2160.4	1387.7	1271.1	1249.6	1248.5	1252.6	1257.8	1262.9	1263.9
37.5°	4233.8	3502.1	1929.1	1302.8	1237.3	1225.0	1223.0	1221.9	1223.0	1223.0	1224.0
40°	4379.1	3577.8	1722.4	1252.6	1213.8	1203.5	1198.4	1191.2	1190.2	1188.2	1187.1
42.5°	4486.6	3636.1	1557.6	1216.8	1192.3	1180.0	1173.8	1162.6	1161.6	1160.5	1159.5
45°	4567.4	3685.3	1420.5	1182.0	1169.7	1158.5	1145.2	1135.0	1137.0	1139.0	1139.0
47.5°	4658.5	3728.2	1320.2	1149.3	1142.1	1130.9	1114.5	1107.3	1114.5	1121.6	1121.6
50°	4769.0	3788.6	1238.3	1116.5	1113.5	1100.2	1085.8	1082.8	1090.9	1101.2	1101.2
52.5°	4849.9	3840.8	1180.0	1083.8	1083.8	1066.4	1054.1	1053.1	1062.3	1072.5	1073.5
55°	5001.4	3962.6	1159.5	1045.9	1041.8	1028.5	1019.3	1012.1	1023.4	1032.6	1032.6
57.5°	5172.3	4124.3	1164.6	991.7	986.6	982.5	975.3	967.1	970.2	980.4	981.4
60°	4810.0	3811.1	1108.3	937.4	934.4	932.3	923.1	908.8	912.9	921.1	922.1
62.5°	3359.8	2532.9	896.5	869.9	880.1	879.1	866.8	850.4	851.5	862.7	862.7
65°	1743.9	1370.3	787.0	808.5	823.8	817.7	797.2	782.9	780.9	795.2	792.1
67.5°	752.2	748.1	716.4	744.0	760.4	747.1	725.6	702.1	704.1	709.2	705.1
70°	605.9	624.3	637.6	667.3	680.6	656.0	632.5	619.2	607.9	606.9	599.7
72.5°	484.1	509.7	539.3	570.0	574.1	549.6	519.9	507.6	490.2	489.2	482.0
75°	364.3	385.8	409.4	433.9	433.9	410.4	390.9	384.8	364.3	358.2	352.0
77.5°	248.7	262.0	280.4	286.6	292.7	283.5	264.0	253.8	230.3	224.1	215.9
80°	156.6	165.8	177.0	181.1	187.3	176.0	160.7	149.4	133.0	127.9	123.8
82.5°	94.2	100.3	107.5	109.5	114.6	106.4	92.1	83.9	74.7	70.6	67.5
85°	48.1	51.2	55.3	56.3	55.3	47.1	42.0	37.9	31.7	30.7	28.7
87.5°	12.3	14.3	15.4	14.3	13.3	10.2	7.2	5.1	2.0	2.0	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)