

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: P639271

Luminaire Tested: GWS-SA5B-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15567.1 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

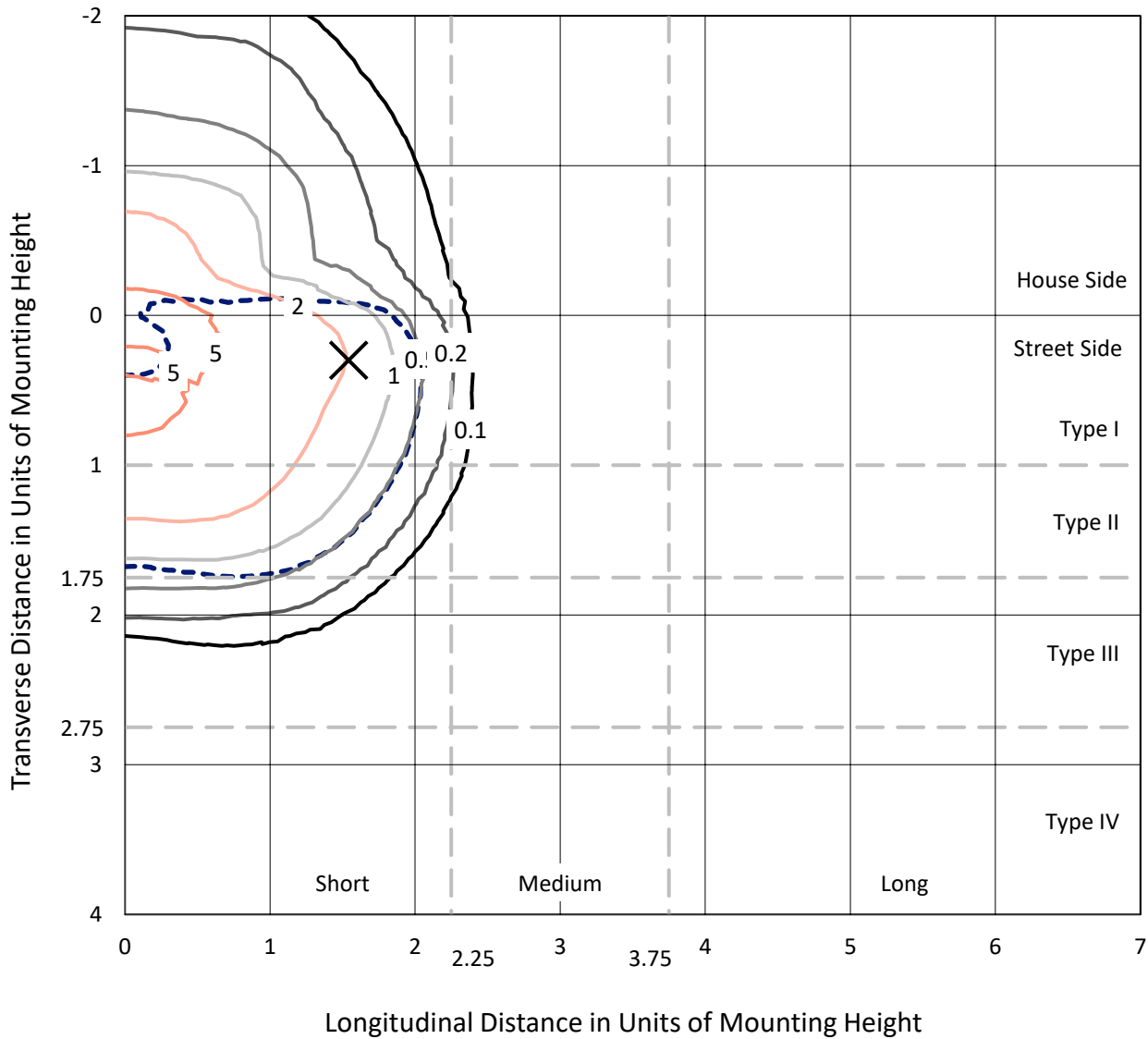
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639271
 CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

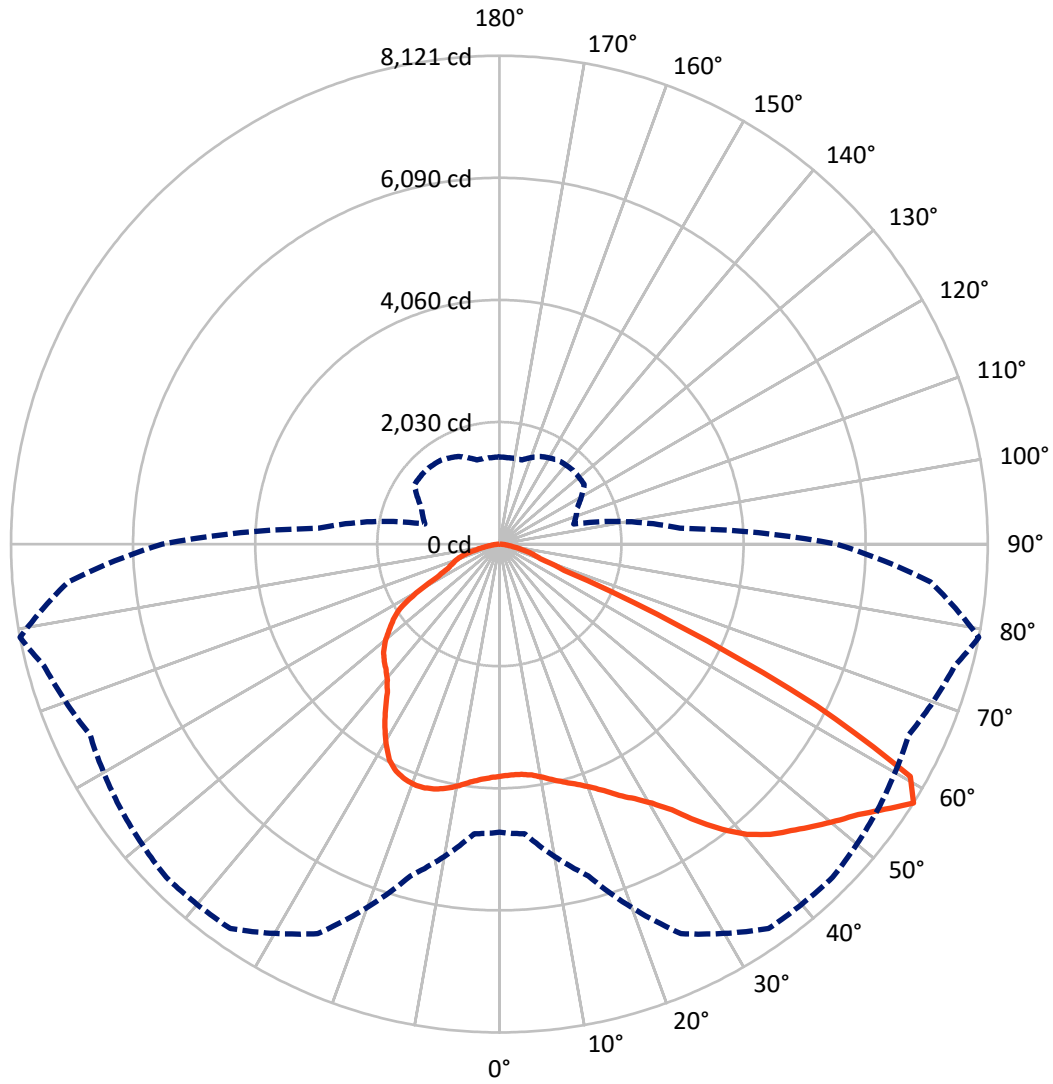
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P639271
CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P639271

CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4627.4	0.0	4627.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	10939.7	0.0	10939.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	15567.1	0.0	15567.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	2.3
10°-20°	992.9	6.4
20°-30°	1683.0	10.8
30°-40°	2576.0	16.5
40°-50°	3434.8	22.1
50°-60°	3966.9	25.5
60°-70°	2061.4	13.2
70°-80°	438.2	2.8
80°-90°	56.8	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°	15567.1	100.0
0°-180°	15567.1	100.0

Coefficient of Utilization



REPORT NUMBER: P639271

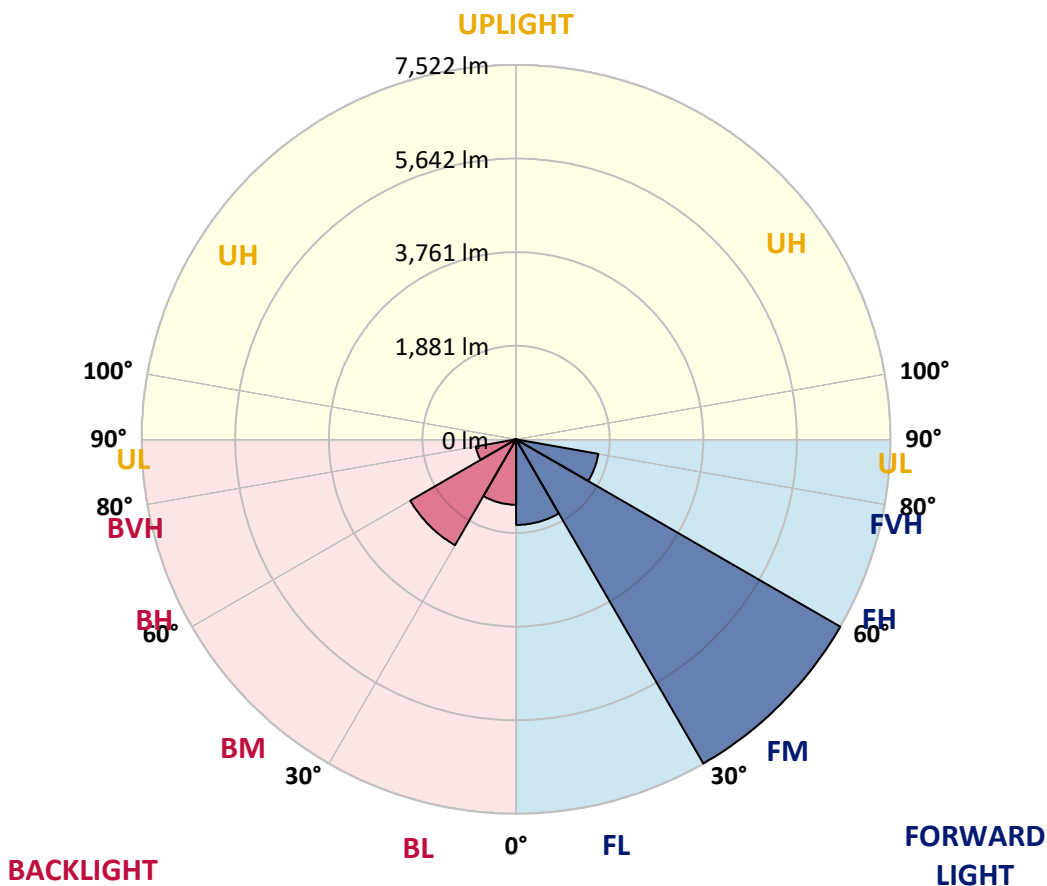
CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1719.0	11.0			
FM (30°-60°)	7522.5	48.3			
FH (60°-80°)	1678.5	10.8			G1/1800
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1314.1	8.4	B3/2500		
BM (30°-60°)	2455.3	15.8	B2/2500		
BH (60°-80°)	821.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.0	0.2			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: P639271

CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9
2.5°	3682.2	3674.6	3677.1	3687.3	3725.5	3753.5	3782.8	3809.5	3835.0	3842.6	3849.0
5°	3551.1	3537.1	3541.0	3557.5	3602.1	3649.1	3701.3	3765.0	3826.1	3846.4	3873.2
7.5°	3458.2	3455.7	3462.0	3487.5	3534.6	3579.1	3646.6	3737.0	3842.6	3877.0	3924.1
10°	3334.8	3329.7	3355.1	3407.3	3485.0	3556.2	3636.4	3743.3	3891.0	3941.9	4014.4
12.5°	3236.8	3234.2	3260.9	3333.5	3432.8	3546.0	3656.8	3776.4	3955.9	4025.9	4115.0
15°	3294.0	3282.6	3283.8	3334.8	3423.9	3557.5	3707.7	3836.2	4020.8	4109.9	4224.5
17.5°	3460.8	3440.4	3425.1	3434.0	3485.0	3623.7	3785.3	3916.4	4095.9	4200.3	4340.3
20°	3691.1	3679.7	3637.7	3609.7	3621.1	3743.3	3907.5	4029.7	4193.9	4311.0	4461.2
22.5°	4000.4	3972.4	3915.2	3870.6	3836.2	3931.7	4083.2	4188.8	4330.1	4452.3	4608.8
25°	4383.6	4342.8	4252.5	4182.5	4108.6	4206.6	4341.6	4421.7	4517.2	4630.5	4779.4
27.5°	4774.3	4739.9	4639.4	4545.2	4453.6	4514.7	4675.0	4720.9	4710.7	4793.4	4920.7
30°	5190.5	5147.2	5051.8	4950.0	4831.6	4871.0	5014.9	5037.8	4929.6	4998.3	5084.9
32.5°	5629.6	5587.6	5504.9	5386.5	5252.9	5268.2	5307.6	5329.3	5226.2	5265.6	5331.8
35°	6076.4	6036.9	5952.9	5835.8	5737.8	5644.9	5545.6	5632.2	5572.4	5648.7	5643.6
37.5°	6485.0	6445.5	6393.3	6303.0	6134.9	5951.7	5722.6	5829.5	5922.4	6019.1	6002.6
40°	6761.2	6734.4	6747.2	6733.2	6516.8	6154.0	5809.1	5926.2	6179.5	6345.0	6336.0
42.5°	6999.2	6972.5	7046.3	7099.7	6845.2	6341.1	5851.1	5963.1	6343.7	6602.1	6589.3
45°	7104.8	7097.2	7219.4	7388.7	7145.6	6539.7	5959.3	6039.5	6468.4	6799.4	6751.0
47.5°	6978.8	7005.5	7246.1	7532.5	7395.0	6775.2	6180.8	6201.1	6631.3	7013.2	6877.0
50°	6728.1	6786.6	7111.2	7536.3	7577.0	7041.2	6487.5	6436.6	6850.3	7241.0	6943.2
52.5°	6362.8	6423.9	6953.4	7507.0	7681.4	7349.2	6896.1	6823.5	7126.5	7468.8	6954.6
55°	5524.0	5606.7	6591.9	7440.8	7783.2	7629.2	7356.8	7209.2	7482.9	7782.0	7067.9
57.5°	4792.1	4835.4	5711.1	7146.8	7803.6	7835.4	7685.2	7509.6	7836.7	8120.5	7195.2
60°	3516.8	3527.0	4314.8	5913.5	7178.6	7715.8	7658.5	7397.6	7668.7	7849.4	6612.2
62.5°	1986.9	1988.1	2616.9	3947.0	5362.3	6289.0	6324.6	6094.2	5866.4	5919.8	4602.5
65°	745.9	815.9	1195.2	1939.8	3091.7	3712.8	3860.4	3913.9	3534.6	3299.1	2468.0
67.5°	498.9	515.5	697.5	997.9	1375.9	1588.5	1776.8	1781.9	1303.4	1162.1	972.4
70°	380.6	397.1	548.6	714.0	697.5	644.0	696.2	677.1	700.0	719.1	739.5
72.5°	283.8	300.4	425.1	504.0	418.8	412.4	467.1	519.3	567.7	588.0	619.9
75°	188.4	201.1	286.4	269.8	231.7	273.7	341.1	393.3	421.3	445.5	469.7
77.5°	119.6	128.6	152.7	123.5	128.6	160.4	198.6	245.7	272.4	296.6	309.3
80°	54.7	53.5	52.2	58.5	72.6	94.2	119.6	147.6	168.0	178.2	185.8
82.5°	21.6	24.2	26.7	31.8	39.5	50.9	67.5	86.6	103.1	105.6	112.0
85°	8.9	10.2	11.5	14.0	17.8	22.9	28.0	39.5	49.6	53.5	57.3
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	6.4	11.5	12.7	14.0
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: P639271

CATALOG NUMBER: GWS-SA5B-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9	3857.9
2.5°	3883.3	3866.8	3894.8	3913.9	3931.7	3912.6	3906.3	3889.7	3887.2	3887.2	3896.1
5°	3919.0	3907.5	3936.8	3948.3	3947.0	3905.0	3879.5	3846.4	3829.9	3829.9	3832.4
7.5°	3982.6	3976.3	3992.8	3975.0	3934.3	3849.0	3765.0	3695.0	3647.9	3623.7	3631.3
10°	4088.3	4080.6	4066.6	4000.4	3883.3	3706.4	3534.6	3407.3	3330.9	3287.7	3290.2
12.5°	4191.4	4178.6	4129.0	3982.6	3742.1	3460.8	3235.5	3092.9	3008.9	2958.0	2946.6
15°	4304.6	4271.6	4164.6	3891.0	3511.7	3160.4	2924.9	2770.9	2680.5	2650.0	2648.7
17.5°	4412.8	4354.3	4160.8	3728.1	3235.5	2846.0	2609.3	2513.8	2498.5	2512.5	2516.3
20°	4522.3	4428.1	4118.8	3502.8	2907.1	2532.9	2410.7	2450.2	2507.4	2545.6	2554.5
22.5°	4635.6	4489.2	4023.4	3212.6	2560.9	2321.6	2372.5	2459.1	2530.3	2581.3	2586.4
25°	4762.9	4546.5	3880.8	2857.5	2283.4	2263.1	2363.6	2455.3	2531.6	2590.2	2600.4
27.5°	4835.4	4547.8	3681.0	2492.2	2156.1	2240.1	2342.0	2428.5	2504.9	2568.5	2580.0
30°	4906.7	4513.4	3364.0	2195.6	2119.2	2213.4	2305.1	2385.2	2457.8	2520.2	2534.2
32.5°	5007.2	4481.6	2998.7	2025.0	2097.6	2188.0	2263.1	2334.3	2390.3	2418.3	2426.0
35°	5132.0	4440.8	2610.5	1951.2	2083.6	2167.6	2233.8	2272.0	2199.4	2184.1	2200.7
37.5°	5306.3	4402.6	2223.6	1919.4	2074.7	2160.0	2218.5	2120.5	2031.4	1995.8	2008.5
40°	5494.7	4381.0	1961.4	1893.9	2078.5	2167.6	2154.9	2009.8	1881.2	1806.1	1803.6
42.5°	5655.1	4347.9	1793.4	1877.4	2088.7	2196.9	2068.3	1911.8	1720.8	1676.3	1677.6
45°	5763.3	4263.9	1704.3	1859.6	2097.6	2203.2	2027.6	1776.8	1640.7	1612.7	1611.4
47.5°	5807.8	4111.2	1647.0	1831.6	2096.3	2151.0	1944.9	1720.8	1584.6	1577.0	1582.1
50°	5778.6	3860.4	1588.5	1776.8	2065.8	2096.3	1849.4	1671.2	1546.5	1588.5	1619.0
52.5°	5670.4	3535.9	1518.5	1701.7	2011.0	2034.0	1801.0	1640.7	1518.5	1574.5	1598.6
55°	5642.4	3272.4	1429.4	1603.7	1929.6	1923.2	1750.1	1625.4	1499.4	1477.7	1481.6
57.5°	5605.5	3015.3	1281.7	1428.1	1723.4	1733.6	1701.7	1607.6	1449.7	1443.4	1449.7
60°	4869.8	2311.4	1143.0	1232.1	1415.4	1470.1	1647.0	1574.5	1369.5	1342.8	1341.5
62.5°	3180.8	1400.1	1017.0	1074.3	1153.2	1216.8	1501.9	1479.0	1281.7	1265.2	1276.6
65°	1710.7	997.9	925.3	959.7	1003.0	1051.3	1244.8	1317.4	1158.3	1099.7	1101.0
67.5°	874.4	849.0	856.6	880.8	913.9	938.1	1004.2	1067.9	987.7	938.1	936.8
70°	748.4	768.8	780.2	794.2	815.9	812.1	818.4	829.9	823.5	799.3	798.1
72.5°	637.7	669.5	672.0	674.6	682.2	664.4	653.0	633.9	635.1	639.0	640.2
75°	484.9	515.5	523.1	519.3	526.9	504.0	488.8	469.7	446.8	442.9	445.5
77.5°	315.7	339.8	351.3	348.7	352.6	334.7	327.1	306.7	280.0	269.8	269.8
80°	190.9	204.9	213.8	216.4	220.2	207.5	194.7	176.9	165.5	154.0	154.0
82.5°	115.8	124.7	131.1	131.1	134.9	120.9	110.7	98.0	92.9	82.7	82.7
85°	58.5	64.9	67.5	66.2	63.6	52.2	48.4	42.0	39.5	34.4	34.4
87.5°	14.0	17.8	17.8	12.7	12.7	6.4	3.8	1.3	0.0	0.0	0.0
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)