

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: P632809

Luminaire Tested: GWS-SA2D-740-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632809
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9778.1 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

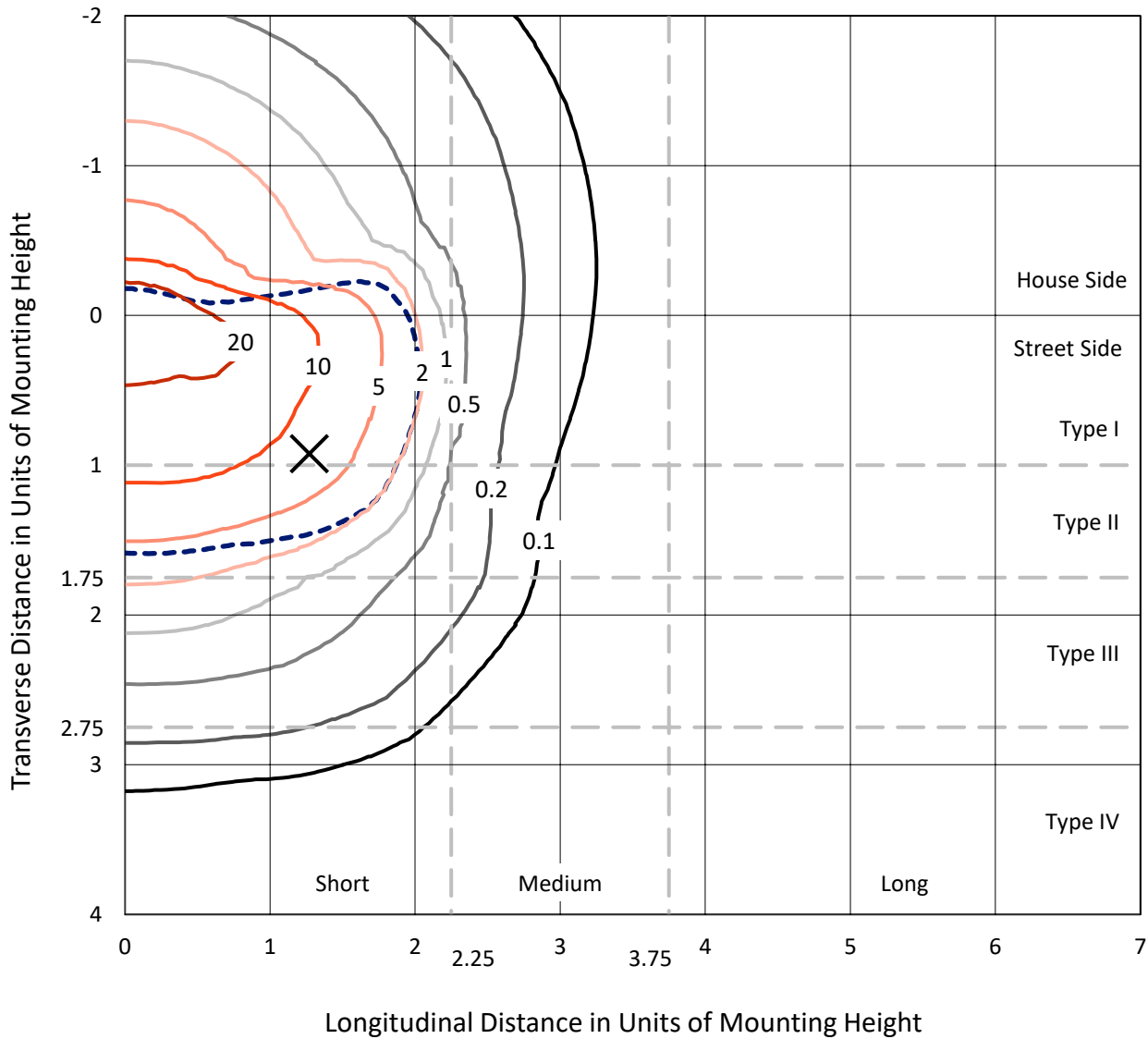
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

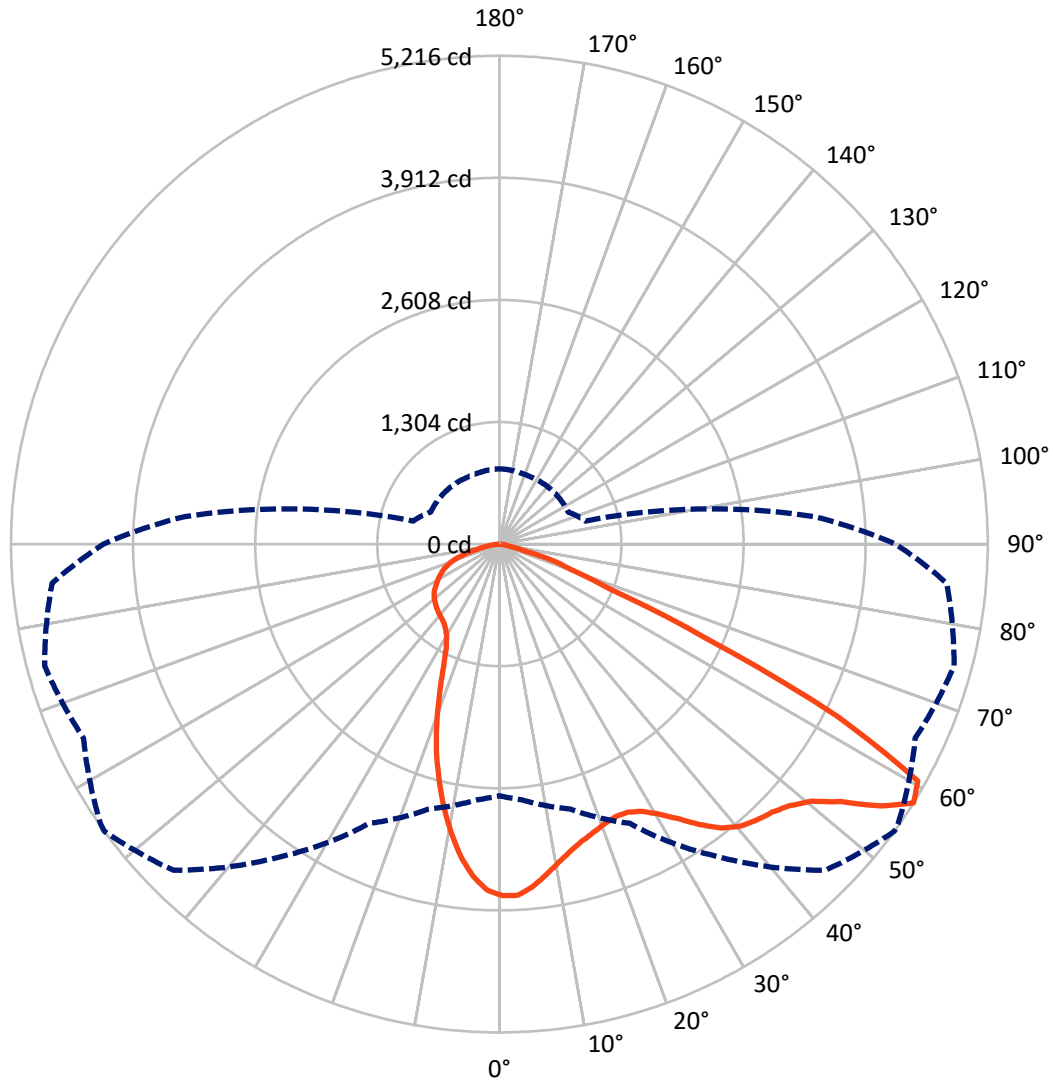
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.5 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	2842.6	0.0	2842.6
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	6935.5	0.0	6935.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	9778.1	0.0	9778.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.0	3.4
10°-20°	787.4	8.1
20°-30°	1089.6	11.1
30°-40°	1514.0	15.5
40°-50°	1999.5	20.4
50°-60°	2376.1	24.3
60°-70°	1316.4	13.5
70°-80°	327.8	3.4
80°-90°	37.3	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°	9778.1	100.0
0°-180°	9778.1	100.0

Coefficient of Utilization



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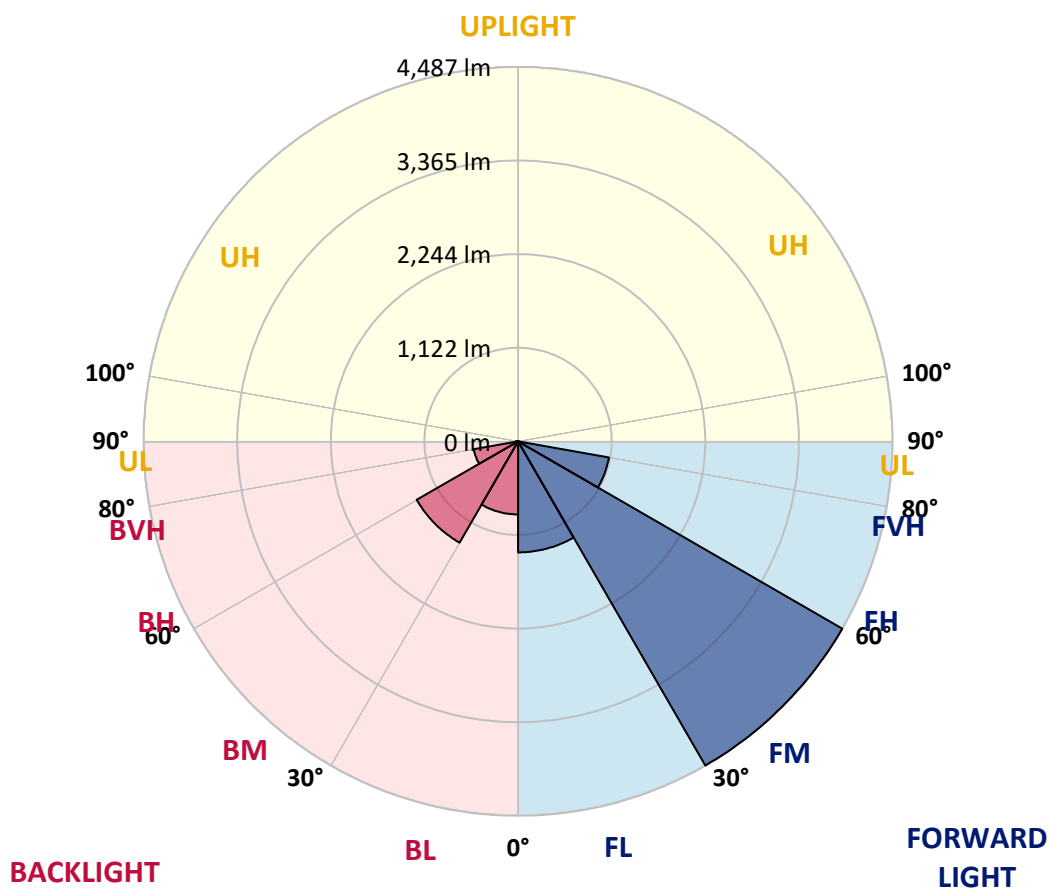
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.0	13.6			
FM (30°-60°)	4487.3	45.9			
FH (60°-80°)	1105.5	11.3			G1/1800
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	876.0	9.0	B2/1000		
BM (30°-60°)	1402.3	14.3	B2/2500		
BH (60°-80°)	538.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	25.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0
2.5°	3683.7	3691.3	3696.3	3713.9	3728.9	3742.3	3756.5	3756.5	3755.7	3753.2	3748.2
5°	3538.1	3546.5	3558.2	3582.4	3615.1	3638.5	3677.0	3680.4	3697.1	3703.8	3700.5
7.5°	3369.0	3371.5	3386.6	3418.4	3470.3	3512.1	3567.4	3574.1	3614.3	3637.7	3633.5
10°	3184.0	3175.7	3202.4	3249.3	3317.1	3387.4	3458.6	3464.4	3528.9	3573.2	3569.9
12.5°	3014.9	3015.8	3042.6	3099.5	3184.0	3271.1	3366.5	3379.9	3459.4	3516.3	3510.5
15°	2873.5	2876.8	2909.5	2973.9	3070.2	3174.0	3292.8	3305.4	3405.8	3481.2	3464.4
17.5°	2760.5	2763.8	2792.3	2866.0	2968.9	3094.5	3239.3	3251.8	3376.5	3466.1	3431.8
20°	2682.6	2681.0	2708.6	2778.9	2885.2	3021.6	3192.4	3210.8	3367.3	3472.0	3410.0
22.5°	2650.8	2650.0	2670.1	2727.8	2827.5	2965.6	3163.9	3189.0	3377.4	3497.9	3396.6
25°	2666.7	2663.4	2681.0	2723.7	2803.2	2943.8	3172.3	3199.1	3420.1	3551.5	3399.1
27.5°	2716.1	2711.9	2727.0	2765.5	2825.8	2966.4	3230.9	3261.9	3510.5	3649.4	3432.6
30°	2791.5	2789.0	2804.0	2840.8	2893.6	3041.7	3343.1	3378.2	3650.2	3801.7	3505.4
32.5°	2879.3	2875.2	2901.9	2944.6	3005.7	3179.0	3493.7	3539.8	3816.0	3997.6	3627.6
35°	2978.1	2974.8	3011.6	3073.5	3161.4	3369.8	3676.2	3726.4	3985.1	4219.4	3790.0
37.5°	3074.4	3074.4	3145.5	3237.6	3348.1	3577.4	3847.8	3879.6	4102.2	4416.1	3964.1
40°	3159.8	3164.8	3271.9	3410.0	3550.6	3764.9	3960.8	3987.6	4154.1	4551.7	4115.6
42.5°	3254.3	3258.5	3383.2	3564.0	3731.4	3916.4	4029.4	4042.8	4164.2	4619.5	4222.8
45°	3329.7	3335.5	3490.4	3683.7	3888.8	4030.3	4083.8	4095.5	4178.4	4656.3	4300.6
47.5°	3369.0	3377.4	3554.8	3780.0	3995.1	4132.4	4173.4	4178.4	4237.0	4720.8	4394.4
50°	3362.3	3379.0	3579.1	3827.7	4073.8	4235.3	4317.3	4325.7	4356.7	4815.4	4504.0
52.5°	3421.7	3429.3	3631.0	3884.6	4185.9	4425.3	4567.6	4579.3	4565.1	4886.5	4569.3
55°	3323.0	3359.0	3566.5	3876.2	4356.7	4719.1	4938.4	4932.6	4754.3	4966.0	4678.1
57.5°	2687.7	2740.4	2930.4	3290.3	4075.5	4925.0	5215.5	5201.2	4900.8	5027.1	4796.1
60°	1860.7	1869.1	2040.7	2295.9	3145.5	4350.8	5134.3	5165.3	4927.5	4950.1	4577.7
62.5°	1488.2	1485.7	1501.6	1508.3	2000.5	3058.5	4052.9	4165.8	4093.9	3857.0	3244.3
65°	1270.6	1279.8	1326.7	1302.4	1305.8	1722.6	2421.5	2437.4	2387.2	2301.8	1715.9
67.5°	994.4	1010.3	1093.1	1187.7	1157.6	1109.1	1256.4	1248.8	984.3	761.7	629.4
70°	622.7	632.8	721.5	932.4	1007.8	910.7	807.7	804.4	527.3	433.6	475.4
72.5°	363.3	364.9	390.1	519.8	668.8	622.7	594.3	572.5	339.0	345.7	379.2
75°	200.0	200.0	199.2	224.3	263.7	233.5	226.0	220.1	226.8	257.0	282.1
77.5°	41.9	42.7	45.2	59.4	77.0	93.7	118.0	118.9	148.2	171.6	191.7
80°	19.3	20.1	25.1	31.8	41.0	54.4	72.0	72.8	89.6	108.0	121.4
82.5°	10.0	10.9	13.4	16.7	21.8	28.5	40.2	40.2	53.6	63.6	72.0
85°	3.3	3.3	5.0	6.7	9.2	11.7	15.9	15.9	23.4	31.0	36.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	3.3	3.3	4.2	5.0	8.4
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°	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0	3754.0
2.5°	3737.3	3711.3	3712.2	3717.2	3701.3	3677.0	3661.1	3641.0	3628.5	3626.0	3635.2
5°	3683.7	3653.6	3632.7	3610.9	3565.7	3512.1	3470.3	3436.0	3413.4	3405.0	3395.0
7.5°	3610.1	3570.7	3518.0	3456.9	3374.9	3279.4	3212.5	3149.7	3106.2	3093.6	3087.8
10°	3536.4	3479.5	3385.7	3271.9	3135.5	3006.6	2885.2	2792.3	2718.6	2676.8	2690.2
12.5°	3460.2	3389.9	3243.5	3068.5	2878.5	2684.3	2525.3	2371.3	2252.4	2193.0	2175.4
15°	3393.3	3297.9	3093.6	2856.7	2604.0	2359.6	2129.4	1898.4	1747.7	1665.7	1643.1
17.5°	3336.4	3212.5	2935.4	2640.8	2338.6	1990.4	1707.5	1493.2	1390.3	1345.1	1341.7
20°	3280.3	3128.8	2778.9	2408.1	2032.3	1642.2	1389.5	1289.0	1252.2	1236.3	1235.4
22.5°	3230.1	3040.9	2614.0	2175.4	1727.6	1380.2	1241.3	1197.8	1187.7	1187.7	1186.1
25°	3187.4	2953.0	2444.9	1928.5	1452.2	1228.7	1164.3	1145.9	1150.1	1157.6	1158.4
27.5°	3169.8	2884.4	2281.7	1674.9	1262.2	1140.9	1111.6	1109.1	1120.8	1132.5	1134.2
30°	3188.2	2837.5	2114.3	1432.1	1148.4	1087.3	1073.9	1078.9	1093.1	1104.9	1104.9
32.5°	3245.1	2814.1	1943.6	1254.7	1082.3	1049.6	1045.4	1050.5	1061.3	1068.0	1068.9
35°	3341.4	2823.3	1766.9	1135.0	1039.6	1022.0	1021.2	1024.5	1028.7	1032.9	1033.7
37.5°	3462.8	2864.3	1577.8	1065.5	1012.0	1001.9	1000.2	999.4	1000.2	1000.2	1001.1
40°	3581.6	2926.2	1408.7	1024.5	992.7	984.3	980.2	974.3	973.5	971.8	970.9
42.5°	3669.5	2973.9	1273.9	995.2	975.1	965.1	960.1	950.9	950.0	949.2	948.3
45°	3735.6	3014.1	1161.8	966.8	956.7	947.5	936.6	928.3	929.9	931.6	931.6
47.5°	3810.1	3049.3	1079.8	940.0	934.1	924.9	911.5	905.7	911.5	917.4	917.4
50°	3900.5	3098.6	1012.8	913.2	910.7	899.8	888.1	885.6	892.3	900.6	900.6
52.5°	3966.6	3141.3	965.1	886.4	886.4	872.2	862.1	861.3	868.8	877.2	878.0
55°	4090.5	3240.9	948.3	855.4	852.1	841.2	833.7	827.8	837.0	844.6	844.6
57.5°	4230.3	3373.2	952.5	811.1	806.9	803.5	797.7	791.0	793.5	801.9	802.7
60°	3934.0	3117.1	906.5	766.7	764.2	762.5	755.0	743.3	746.6	753.3	754.2
62.5°	2747.9	2071.6	733.2	711.5	719.8	719.0	709.0	695.6	696.4	705.6	705.6
65°	1426.3	1120.8	643.7	661.2	673.8	668.8	652.0	640.3	638.6	650.4	647.9
67.5°	615.2	611.9	585.9	608.5	621.9	611.0	593.4	574.2	575.9	580.1	576.7
70°	495.5	510.6	521.5	545.7	556.6	536.5	517.3	506.4	497.2	496.4	490.5
72.5°	395.9	416.8	441.1	466.2	469.6	449.5	425.2	415.2	400.9	400.1	394.2
75°	298.0	315.6	334.8	354.9	354.9	335.6	319.7	314.7	298.0	293.0	287.9
77.5°	203.4	214.3	229.3	234.4	239.4	231.9	216.0	207.6	188.3	183.3	176.6
80°	128.1	135.6	144.8	148.2	153.2	144.0	131.4	122.2	108.8	104.6	101.3
82.5°	77.0	82.0	87.9	89.6	93.7	87.1	75.3	68.6	61.1	57.8	55.2
85°	39.3	41.9	45.2	46.0	45.2	38.5	34.3	31.0	25.9	25.1	23.4
87.5°	10.0	11.7	12.6	11.7	10.9	8.4	5.9	4.2	1.7	1.7	0.8
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)