

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: P633300

Luminaire Tested: GWS-SA2E-740-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633300
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-SA2E-740-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II 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: 12427.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

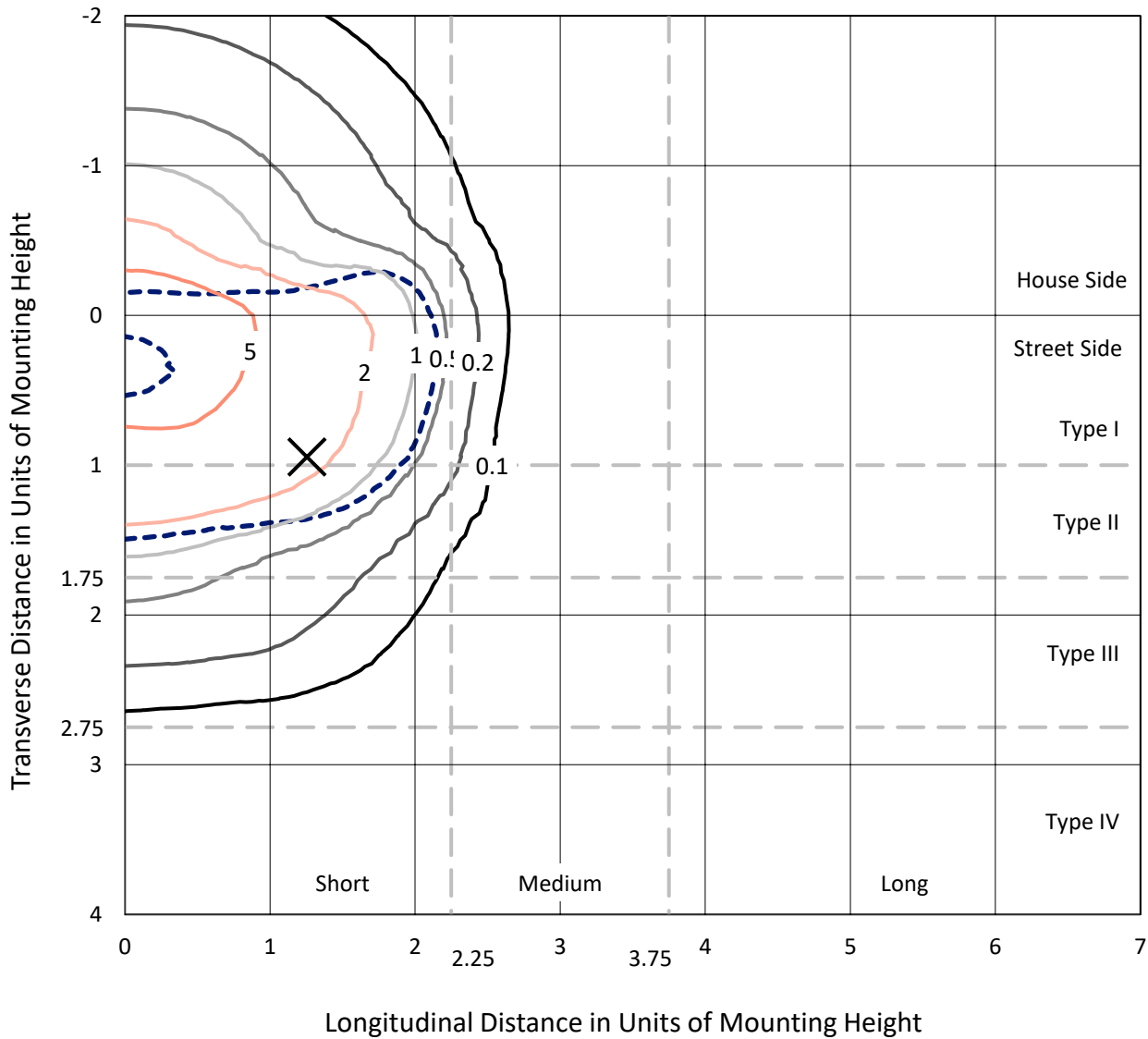
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

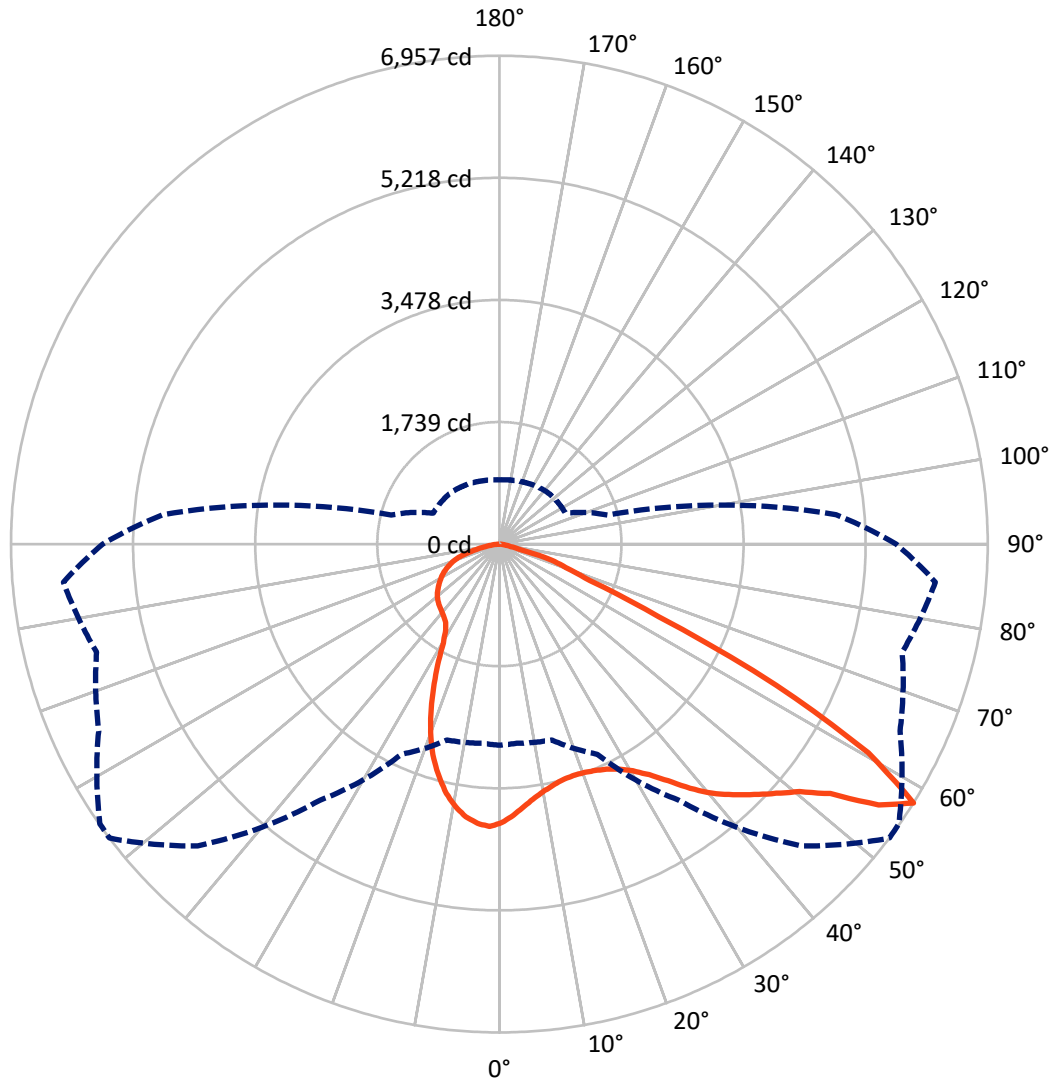
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.6	0.0	3885.6
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8541.8	0.0	8541.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	12427.4	0.0	12427.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	2.9
10°-20°	941.5	7.6
20°-30°	1387.1	11.2
30°-40°	1941.6	15.6
40°-50°	2552.4	20.5
50°-60°	2992.7	24.1
60°-70°	1763.1	14.2
70°-80°	438.6	3.5
80°-90°	51.5	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°	12427.4	100.0
0°-180°	12427.4	100.0

Coefficient of Utilization



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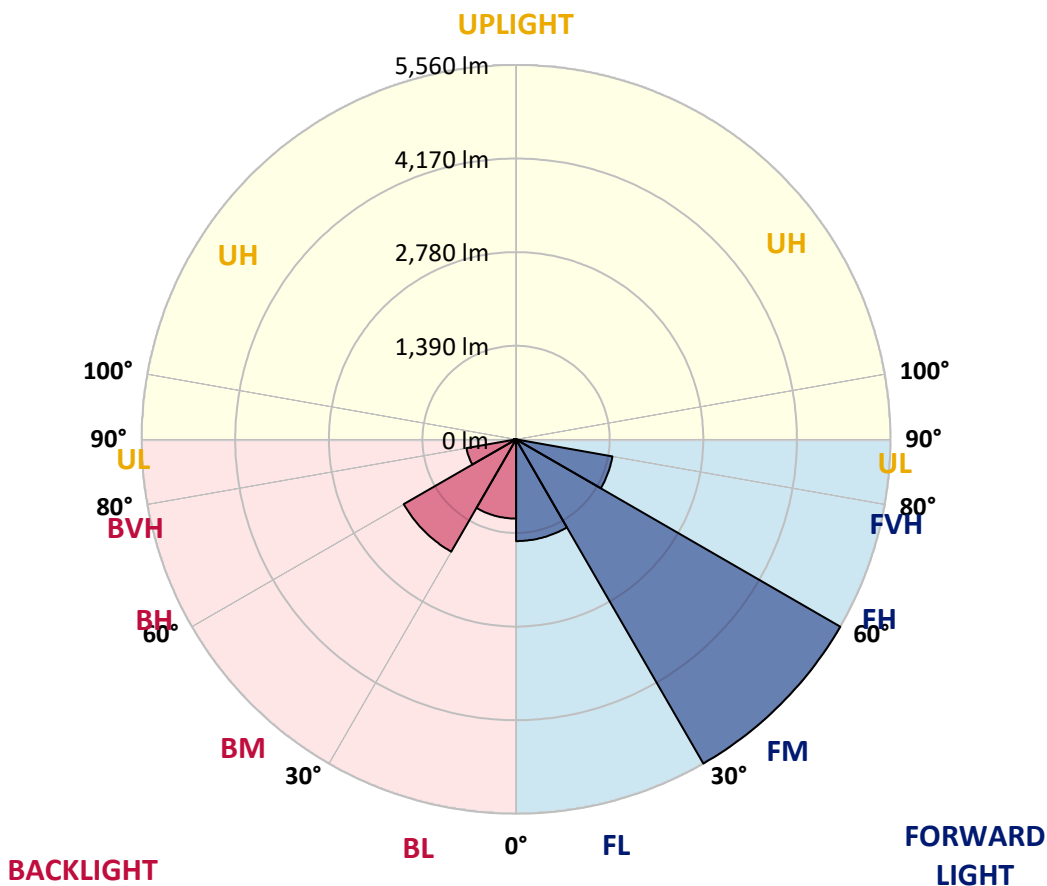
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.9	12.2			
FM (30°-60°)	5560.1	44.7			
FH (60°-80°)	1453.5	11.7			G1/1800
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1176.6	9.5	B3/2500		
BM (30°-60°)	1926.7	15.5	B2/2500		
BH (60°-80°)	748.1	6.0	B2/1000		G2/1000
BVH (80°-90°)	34.2	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°	53°	55°	65°	75°	85°
0°	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4
2.5°	3740.4	3750.8	3752.9	3785.4	3787.5	3834.5	3865.9	3859.6	3892.0	3931.8	3963.2
5°	3561.5	3562.6	3573.0	3611.7	3632.6	3694.4	3746.7	3746.7	3809.4	3891.0	3961.1
7.5°	3414.0	3413.0	3422.4	3465.3	3499.8	3574.1	3645.2	3653.6	3741.4	3860.7	3974.7
10°	3277.0	3284.3	3294.8	3347.1	3391.0	3483.1	3567.8	3581.4	3692.3	3839.8	3993.5
12.5°	3189.2	3190.2	3205.9	3264.5	3321.0	3419.3	3508.2	3524.9	3652.5	3819.9	4007.1
15°	3132.7	3133.7	3150.5	3215.3	3281.2	3380.6	3471.6	3490.4	3629.5	3816.7	4033.3
17.5°	3107.6	3106.5	3122.2	3187.1	3259.2	3362.8	3460.1	3483.1	3640.0	3840.8	4079.3
20°	3107.6	3108.6	3117.0	3175.6	3248.8	3358.6	3471.6	3499.8	3680.8	3895.2	4150.4
22.5°	3151.5	3155.7	3159.9	3199.6	3257.1	3364.9	3501.9	3539.6	3768.6	3986.2	4243.5
25°	3237.3	3238.3	3242.5	3274.9	3301.1	3382.7	3552.1	3608.6	3905.6	4119.0	4360.6
27.5°	3352.3	3367.0	3371.2	3392.1	3392.1	3426.6	3630.6	3712.1	4090.8	4310.4	4510.2
30°	3513.4	3518.6	3526.0	3549.0	3523.9	3509.2	3745.6	3850.2	4305.2	4541.6	4690.1
32.5°	3654.6	3666.1	3705.9	3743.5	3698.5	3652.5	3915.1	4038.5	4511.3	4782.2	4881.5
35°	3774.9	3803.1	3879.5	3963.2	3931.8	3885.8	4139.9	4268.6	4680.7	4954.8	5051.0
37.5°	3920.3	3942.3	4046.9	4182.8	4211.1	4189.1	4414.0	4506.0	4793.7	4998.7	5143.0
40°	4067.8	4101.2	4236.2	4424.4	4532.2	4547.9	4667.1	4728.8	4832.4	4912.9	5125.2
42.5°	4218.4	4275.9	4461.1	4680.7	4872.1	4907.7	4880.5	4906.6	4819.8	4794.7	5042.6
45°	4402.5	4470.5	4679.7	4960.0	5212.1	5267.5	5089.7	5065.6	4817.7	4749.7	4991.4
47.5°	4620.0	4688.0	4887.8	5214.2	5536.3	5577.1	5304.1	5260.2	4890.9	4818.8	5060.4
50°	4812.5	4859.6	5038.4	5403.5	5838.6	5862.7	5540.5	5487.2	5072.9	5010.2	5275.9
52.5°	4616.9	4611.7	4799.9	5249.7	5995.5	6285.2	5904.5	5853.2	5424.4	5328.2	5609.5
55°	3917.2	3857.5	4025.9	4468.4	5557.2	6660.7	6557.2	6454.7	5893.0	5648.2	5922.3
57.5°	2863.9	2847.1	2887.9	3303.2	4451.6	6079.2	6956.7	6947.3	6297.8	5941.1	6234.0
60°	2239.4	2214.3	2105.5	2117.0	3034.4	4748.7	6037.3	6314.5	6548.8	6116.8	6451.5
62.5°	1988.4	1969.6	1913.1	1757.2	1807.4	3183.9	4425.5	4679.7	5722.5	5402.4	5541.5
65°	1646.4	1641.1	1688.2	1681.9	1514.6	1758.3	2497.8	2754.0	3598.1	3643.1	3598.1
67.5°	1196.6	1187.2	1306.4	1541.8	1458.1	1327.3	1392.2	1481.1	1845.1	1656.8	1491.6
70°	778.2	764.6	833.6	1114.0	1305.4	1156.8	1003.1	988.4	1014.6	630.7	682.0
72.5°	521.9	506.2	505.2	612.9	788.7	779.2	777.2	769.8	687.2	497.9	552.3
75°	290.8	278.2	275.1	264.6	282.4	287.6	306.5	316.9	343.1	377.6	418.4
77.5°	49.2	48.1	60.7	77.4	106.7	137.0	169.4	178.9	220.7	261.5	287.6
80°	27.2	28.2	36.6	45.0	59.6	81.6	104.6	110.9	136.0	157.9	178.9
82.5°	14.6	14.6	18.8	24.1	32.4	42.9	56.5	61.7	78.4	92.0	106.7
85°	5.2	5.2	7.3	9.4	13.6	17.8	22.0	25.1	34.5	47.1	53.3
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	4.2	5.2	9.4	13.6
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°	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4	3968.4
2.5°	3989.3	3961.1	3999.8	4017.6	4023.8	4028.0	4000.8	3982.0	3975.7	3955.9	3944.3
5°	4004.0	3985.1	4021.7	4021.7	3995.6	3968.4	3913.0	3874.3	3847.1	3814.6	3809.4
7.5°	4029.1	4015.5	4035.3	3994.6	3928.7	3855.4	3759.2	3683.9	3623.2	3583.5	3584.5
10°	4062.5	4045.8	4030.1	3939.1	3818.8	3683.9	3536.4	3426.6	3326.2	3280.2	3255.1
12.5°	4084.5	4060.4	3994.6	3843.9	3667.2	3486.2	3278.1	3114.9	2969.5	2903.6	2898.4
15°	4111.7	4067.8	3936.0	3720.5	3474.7	3227.9	2960.1	2733.1	2536.5	2434.0	2428.7
17.5°	4147.3	4075.1	3865.9	3579.3	3271.8	2907.8	2571.0	2285.4	2076.2	1996.8	2010.4
20°	4197.5	4083.5	3786.4	3422.4	3019.7	2543.8	2124.4	1861.8	1781.3	1776.1	1765.6
22.5°	4254.0	4088.7	3698.5	3246.7	2714.3	2155.7	1755.1	1643.2	1642.2	1668.3	1674.6
25°	4317.8	4092.9	3599.2	3041.7	2383.8	1768.7	1552.2	1518.7	1544.9	1594.1	1600.3
27.5°	4399.3	4101.2	3478.9	2816.8	2032.3	1528.2	1440.3	1431.9	1463.3	1509.3	1507.2
30°	4519.6	4131.6	3351.3	2558.4	1671.5	1414.1	1372.3	1373.4	1385.9	1407.9	1411.0
32.5°	4642.0	4178.6	3226.8	2267.7	1464.4	1349.3	1330.5	1328.4	1328.4	1337.8	1339.9
35°	4758.1	4232.0	3091.9	1964.3	1363.9	1311.6	1299.1	1292.8	1289.7	1287.6	1284.4
37.5°	4823.0	4258.1	2960.1	1665.2	1310.6	1286.5	1274.0	1265.6	1254.1	1245.7	1243.7
40°	4794.7	4227.8	2807.4	1441.3	1278.2	1262.5	1247.8	1236.3	1220.6	1213.3	1209.1
42.5°	4700.6	4133.7	2641.1	1335.7	1252.0	1236.3	1218.6	1199.7	1189.3	1183.0	1181.9
45°	4601.2	4019.7	2440.2	1274.0	1226.9	1208.1	1187.2	1166.3	1154.7	1151.6	1150.6
47.5°	4598.1	3963.2	2226.9	1224.8	1196.6	1177.8	1151.6	1130.7	1118.1	1114.0	1109.8
50°	4736.1	4020.7	1986.3	1181.9	1165.2	1145.3	1116.0	1093.0	1077.3	1072.1	1071.1
52.5°	5022.7	4237.2	1770.8	1139.1	1123.4	1100.4	1076.3	1053.3	1034.5	1025.0	1024.0
55°	5332.3	4512.3	1636.9	1095.1	1074.2	1054.3	1032.4	1007.3	986.3	971.7	969.6
57.5°	5652.4	4812.5	1596.1	1039.7	1024.0	1010.4	984.3	957.1	933.0	919.4	916.3
60°	5916.0	5070.9	1672.5	981.1	972.8	955.0	930.9	904.8	888.0	877.6	875.5
62.5°	4952.7	4128.4	1350.3	917.3	917.3	898.5	871.3	852.5	841.0	833.6	831.5
65°	3143.1	2556.3	921.5	853.5	852.5	827.4	804.3	791.8	786.6	775.1	773.0
67.5°	1369.2	1168.3	787.6	788.7	784.5	757.3	734.3	724.9	714.4	701.8	700.8
70°	710.2	723.8	705.0	716.5	709.2	676.7	654.8	640.1	618.2	605.6	606.7
72.5°	573.2	587.8	608.8	626.5	610.8	584.7	550.2	532.4	504.2	490.6	491.6
75°	437.2	452.9	472.8	491.6	479.1	446.6	424.7	406.9	374.5	358.8	361.9
77.5°	301.2	309.6	333.7	332.6	328.4	319.0	286.6	265.7	232.2	213.4	215.5
80°	187.2	192.5	204.0	209.2	207.1	194.6	168.4	152.7	132.8	121.3	122.4
82.5°	113.0	116.1	126.6	127.6	126.6	117.1	97.3	85.8	73.2	66.9	66.9
85°	57.5	59.6	65.9	65.9	59.6	50.2	45.0	39.7	32.4	29.3	29.3
87.5°	15.7	15.7	19.9	16.7	13.6	12.6	6.3	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)