

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: P633245

Luminaire Tested: GWS-SA2E-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633245
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12257.1 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

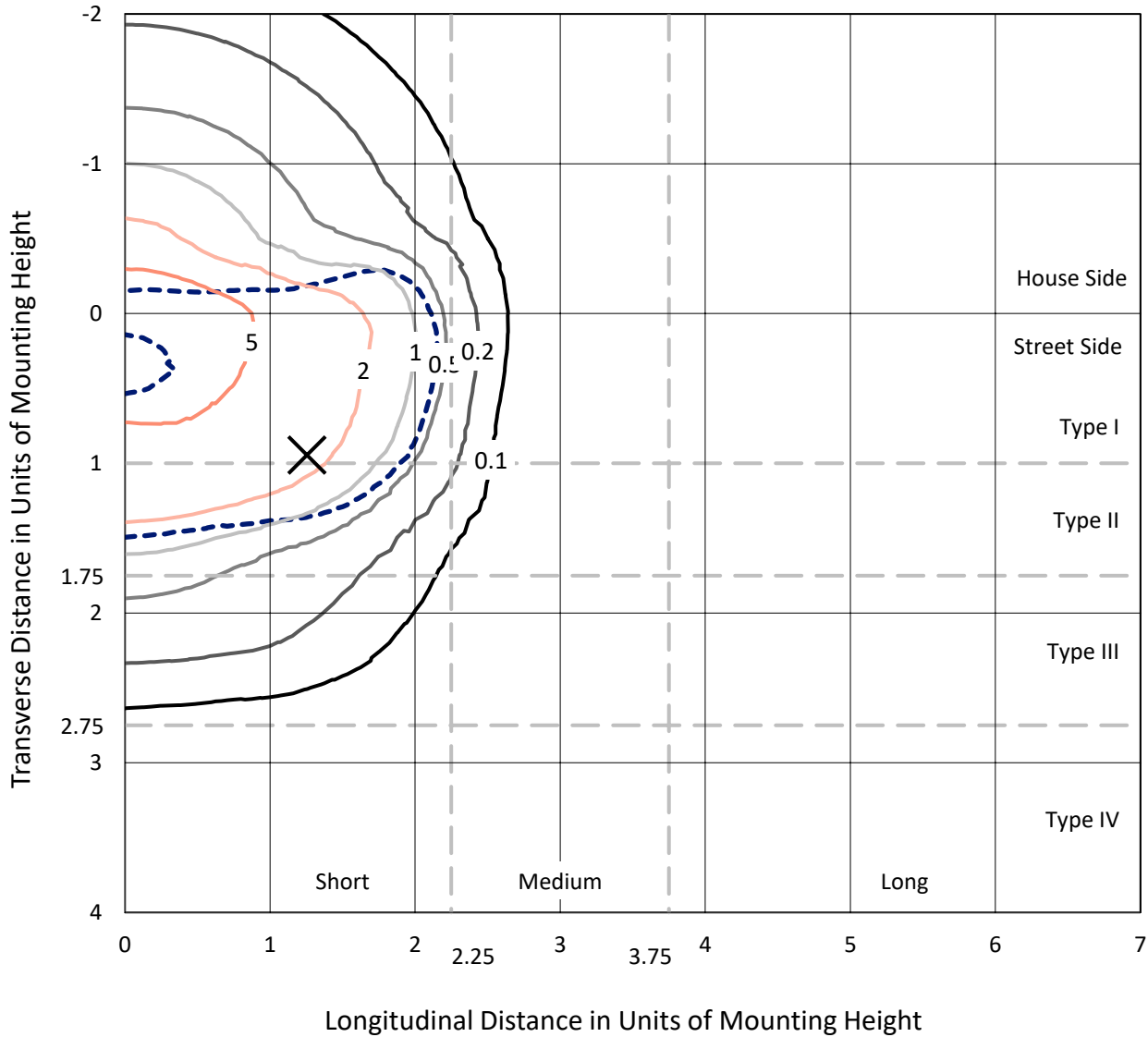
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

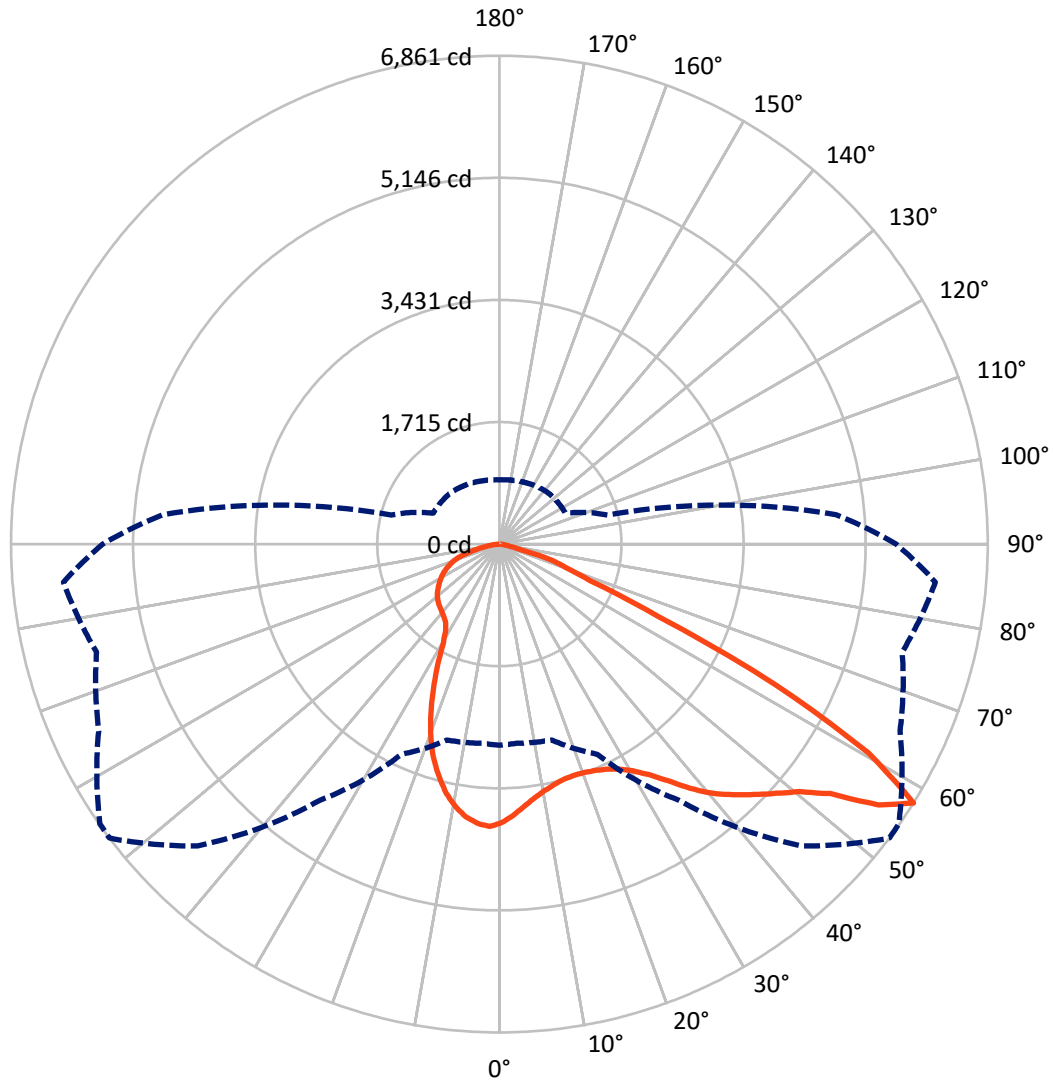
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	3832.3	0.0	3832.3
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	8424.8	0.0	8424.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	12257.1	0.0	12257.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	2.9
10°-20°	928.6	7.6
20°-30°	1368.1	11.2
30°-40°	1915.0	15.6
40°-50°	2517.5	20.5
50°-60°	2951.7	24.1
60°-70°	1738.9	14.2
70°-80°	432.6	3.5
80°-90°	50.8	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°	12257.1	100.0
0°-180°	12257.1	100.0

Coefficient of Utilization



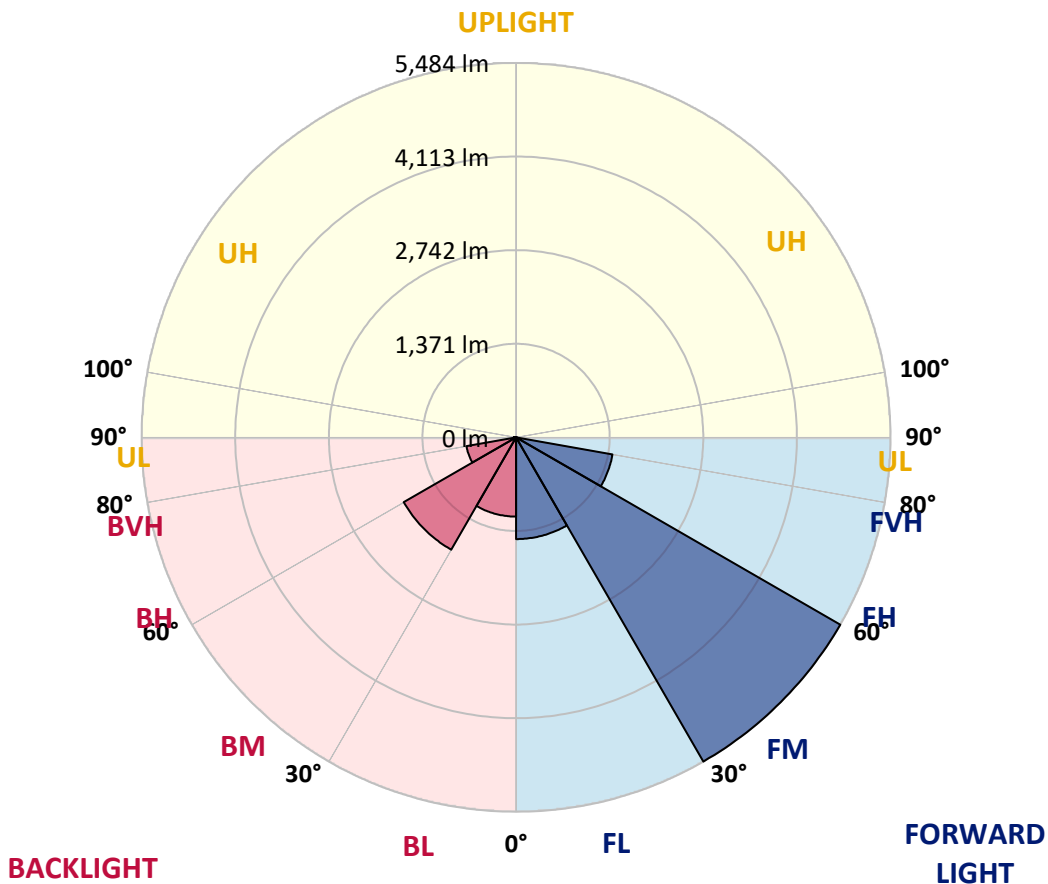
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.2	12.2			
FM (30°-60°)	5483.9	44.7			
FH (60°-80°)	1433.6	11.7			G1/1800
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	1160.5	9.5	B3/2500		
BM (30°-60°)	1900.3	15.5	B2/2500		
BH (60°-80°)	737.8	6.0	B2/1000		G2/1000
BVH (80°-90°)	33.8	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°	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0
2.5°	3689.1	3699.4	3701.5	3733.5	3735.6	3782.0	3812.9	3806.7	3838.7	3877.9	3908.9
5°	3512.7	3513.7	3524.1	3562.2	3582.9	3643.7	3695.3	3695.3	3757.2	3837.7	3906.8
7.5°	3367.3	3366.2	3375.5	3417.8	3451.9	3525.1	3595.2	3603.5	3690.2	3807.8	3920.2
10°	3232.1	3239.3	3249.7	3301.2	3344.6	3435.3	3518.9	3532.3	3641.7	3787.1	3938.8
12.5°	3145.5	3146.5	3162.0	3219.7	3275.4	3372.4	3460.1	3476.6	3602.5	3767.5	3952.2
15°	3089.7	3090.8	3107.3	3171.2	3236.2	3334.2	3424.0	3442.6	3579.8	3764.4	3978.0
17.5°	3065.0	3064.0	3079.4	3143.4	3214.6	3316.7	3412.6	3435.3	3590.1	3788.2	4023.4
20°	3065.0	3066.0	3074.3	3132.0	3204.3	3312.6	3424.0	3451.9	3630.3	3841.8	4093.5
22.5°	3108.3	3112.4	3116.6	3155.8	3212.5	3318.8	3453.9	3491.1	3717.0	3931.6	4185.3
25°	3192.9	3193.9	3198.1	3230.0	3255.8	3336.3	3503.4	3559.1	3852.1	4062.6	4300.9
27.5°	3306.4	3320.8	3325.0	3345.6	3345.6	3379.6	3580.8	3661.3	4034.7	4251.4	4448.4
30°	3465.3	3470.4	3477.6	3500.3	3475.6	3461.1	3694.3	3797.4	4246.2	4479.4	4625.9
32.5°	3604.5	3615.9	3655.1	3692.2	3647.9	3602.5	3861.4	3983.1	4449.4	4716.6	4814.6
35°	3723.2	3751.0	3826.3	3908.9	3877.9	3832.5	4083.2	4210.1	4616.6	4886.9	4981.8
37.5°	3866.6	3888.2	3991.4	4125.5	4153.4	4131.7	4353.5	4444.3	4728.0	4930.2	5072.5
40°	4012.0	4045.0	4178.1	4363.8	4470.1	4485.5	4603.2	4664.0	4766.2	4845.6	5055.0
42.5°	4160.6	4217.3	4399.9	4616.6	4805.4	4840.4	4813.6	4839.4	4753.8	4729.0	4973.5
45°	4342.2	4409.2	4615.5	4892.0	5140.6	5195.3	5019.9	4996.2	4751.7	4684.7	4923.0
47.5°	4556.7	4623.8	4820.8	5142.7	5460.4	5500.7	5231.4	5188.1	4823.9	4752.7	4991.1
50°	4746.6	4793.0	4969.4	5329.4	5758.6	5782.3	5464.6	5412.0	5003.4	4941.5	5203.6
52.5°	4553.6	4548.5	4734.2	5177.8	5913.3	6199.1	5823.6	5773.0	5350.1	5255.1	5532.7
55°	3863.5	3804.7	3970.8	4407.1	5481.1	6569.5	6467.3	6366.2	5812.2	5570.8	5841.1
57.5°	2824.6	2808.1	2848.3	3257.9	4390.6	5995.9	6861.4	6852.1	6211.5	5859.7	6148.5
60°	2208.7	2184.0	2076.7	2088.0	2992.8	4683.6	5954.6	6228.0	6459.1	6033.0	6363.1
62.5°	1961.1	1942.6	1886.9	1733.1	1782.7	3140.3	4364.8	4615.5	5644.1	5328.4	5465.6
65°	1623.8	1618.6	1665.1	1658.9	1493.8	1734.2	2463.5	2716.3	3548.8	3593.2	3548.8
67.5°	1180.2	1170.9	1288.5	1520.6	1438.1	1309.1	1373.1	1460.8	1819.8	1634.1	1471.1
70°	767.5	754.1	822.2	1098.7	1287.5	1141.0	989.3	974.9	1000.7	622.1	672.6
72.5°	514.8	499.3	498.3	604.5	777.9	768.6	766.5	759.3	677.8	491.1	544.7
75°	286.8	274.4	271.3	261.0	278.5	283.7	302.3	312.6	338.4	372.4	412.7
77.5°	48.5	47.5	59.8	76.3	105.2	135.1	167.1	176.4	217.7	257.9	283.7
80°	26.8	27.9	36.1	44.4	58.8	80.5	103.2	109.4	134.1	155.8	176.4
82.5°	14.4	14.4	18.6	23.7	32.0	42.3	55.7	60.9	77.4	90.8	105.2
85°	5.2	5.2	7.2	9.3	13.4	17.5	21.7	24.8	34.0	46.4	52.6
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.1	4.1	5.2	9.3	13.4
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°	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0	3914.0
2.5°	3934.7	3906.8	3945.0	3962.5	3968.7	3972.8	3946.0	3927.4	3921.2	3901.6	3890.3
5°	3949.1	3930.5	3966.6	3966.6	3940.8	3914.0	3859.3	3821.2	3794.4	3762.4	3757.2
7.5°	3973.9	3960.4	3980.0	3939.8	3874.8	3802.6	3707.7	3633.4	3573.6	3534.4	3535.4
10°	4006.9	3990.4	3974.9	3885.1	3766.5	3633.4	3488.0	3379.6	3280.6	3235.2	3210.4
12.5°	4028.5	4004.8	3939.8	3791.3	3616.9	3438.4	3233.1	3072.2	2928.8	2863.8	2858.7
15°	4055.4	4012.0	3882.0	3669.5	3427.1	3183.6	2919.5	2695.7	2501.7	2400.6	2395.5
17.5°	4090.4	4019.2	3812.9	3530.3	3227.0	2867.9	2535.8	2254.1	2047.8	1969.4	1982.8
20°	4140.0	4027.5	3734.5	3375.5	2978.3	2508.9	2095.3	1836.3	1756.9	1751.7	1741.4
22.5°	4195.7	4032.7	3647.9	3202.2	2677.1	2126.2	1731.1	1620.7	1619.7	1645.5	1651.6
25°	4258.6	4036.8	3549.9	3000.0	2351.1	1744.5	1530.9	1497.9	1523.7	1572.2	1578.4
27.5°	4339.1	4045.0	3431.2	2778.2	2004.5	1507.2	1420.6	1412.3	1443.3	1488.6	1486.6
30°	4457.7	4075.0	3305.4	2523.4	1648.6	1394.8	1353.5	1354.5	1366.9	1388.6	1391.7
32.5°	4578.4	4121.4	3182.6	2236.6	1444.3	1330.8	1312.2	1310.2	1310.2	1319.5	1321.5
35°	4692.9	4174.0	3049.5	1937.4	1345.3	1293.7	1281.3	1275.1	1272.0	1269.9	1266.8
37.5°	4756.9	4199.8	2919.5	1642.4	1292.6	1268.9	1256.5	1248.3	1236.9	1228.7	1226.6
40°	4729.0	4169.9	2768.9	1421.6	1260.7	1245.2	1230.7	1219.4	1203.9	1196.7	1192.6
42.5°	4636.2	4077.0	2604.9	1317.4	1234.9	1219.4	1201.9	1183.3	1173.0	1166.8	1165.7
45°	4538.2	3964.6	2406.8	1256.5	1210.1	1191.5	1170.9	1150.3	1138.9	1135.8	1134.8
47.5°	4535.1	3908.9	2196.4	1208.0	1180.2	1161.6	1135.8	1115.2	1102.8	1098.7	1094.6
50°	4671.2	3965.6	1959.1	1165.7	1149.2	1129.6	1100.8	1078.1	1062.6	1057.4	1056.4
52.5°	4953.9	4179.2	1746.6	1123.5	1108.0	1085.3	1061.6	1038.9	1020.3	1011.0	1010.0
55°	5259.3	4450.5	1614.5	1080.1	1059.5	1039.9	1018.2	993.5	972.8	958.4	956.3
57.5°	5575.0	4746.6	1574.3	1025.4	1010.0	996.6	970.8	943.9	920.2	906.8	903.7
60°	5834.9	5001.4	1649.6	967.7	959.4	941.9	918.2	892.4	875.9	865.5	863.5
62.5°	4884.8	4071.9	1331.8	904.7	904.7	886.2	859.4	840.8	829.4	822.2	820.1
65°	3100.1	2521.3	908.9	841.8	840.8	816.0	793.3	780.9	775.8	764.4	762.4
67.5°	1350.4	1152.3	776.8	777.9	773.7	746.9	724.2	714.9	704.6	692.2	691.2
70°	700.5	713.9	695.3	706.7	699.4	667.5	645.8	631.4	609.7	597.3	598.3
72.5°	565.3	579.8	600.4	617.9	602.5	576.7	542.6	525.1	497.2	483.8	484.9
75°	431.2	446.7	466.3	484.9	472.5	440.5	418.8	401.3	369.3	353.9	356.9
77.5°	297.1	305.4	329.1	328.1	323.9	314.6	282.7	262.0	229.0	210.5	212.5
80°	184.7	189.8	201.2	206.3	204.3	191.9	166.1	150.6	131.0	119.7	120.7
82.5°	111.4	114.5	124.8	125.9	124.8	115.5	95.9	84.6	72.2	66.0	66.0
85°	56.7	58.8	65.0	65.0	58.8	49.5	44.4	39.2	32.0	28.9	28.9
87.5°	15.5	15.5	19.6	16.5	13.4	12.4	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)