

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: P642515

Luminaire Tested: GWS-SA6D-722-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16549.1 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

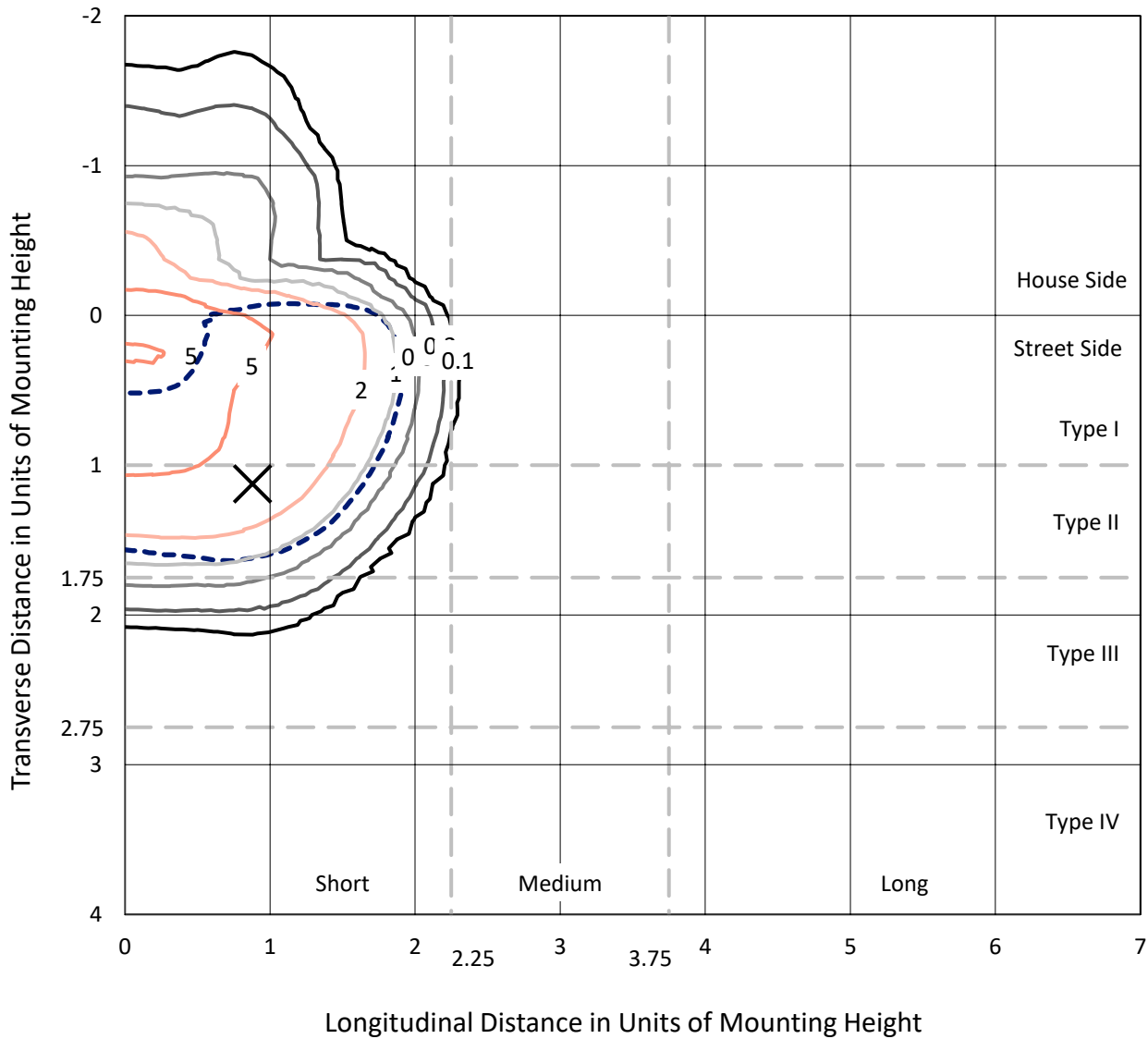
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA6D-722-U-T3R-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

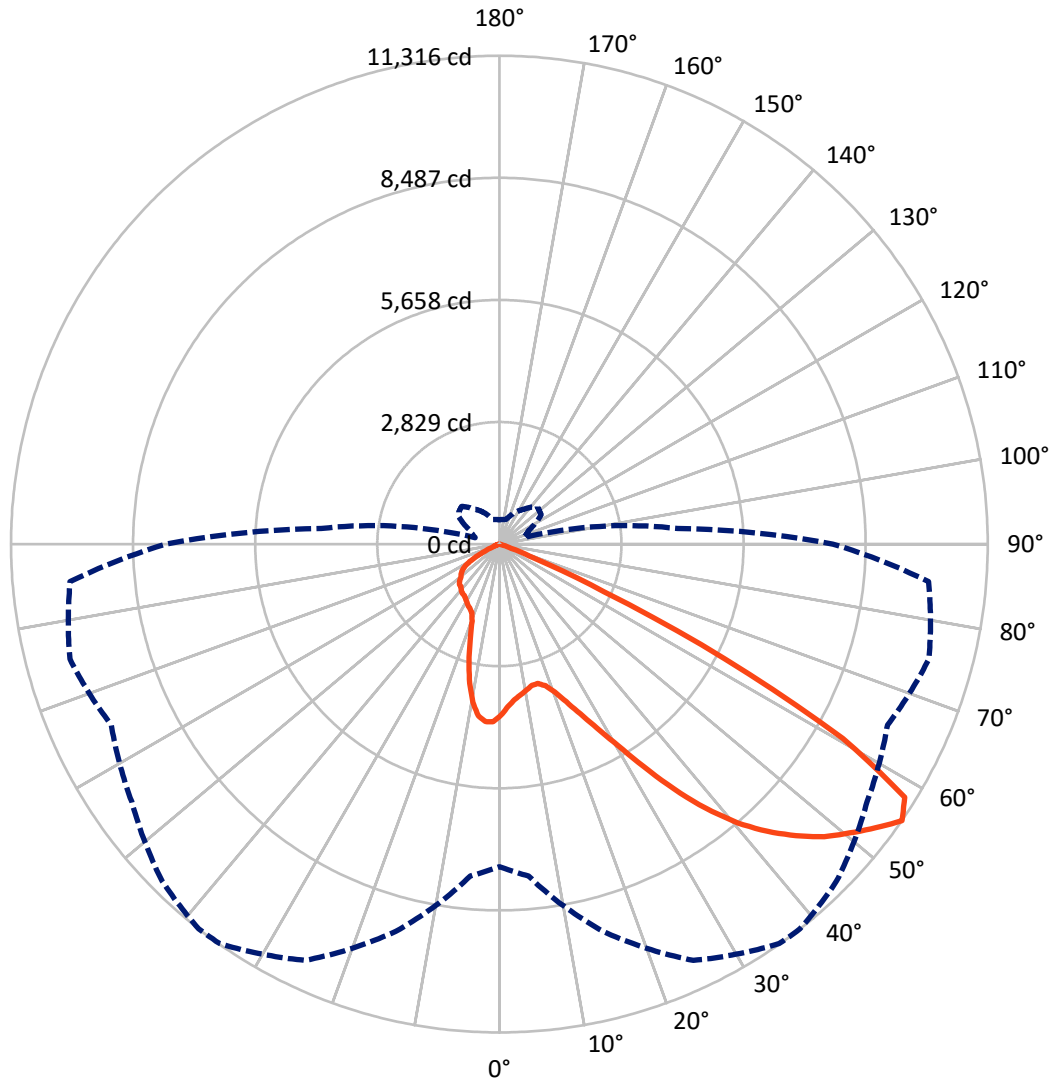
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P642515
CATALOG NUMBER: GWS-SA6D-722-U-T3R-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3224.3	0.0	3224.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	13324.8	0.0	13324.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	16549.1	0.0	16549.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.9	2.2
10°-20°	987.9	6.0
20°-30°	1695.2	10.2
30°-40°	2811.7	17.0
40°-50°	4133.3	25.0
50°-60°	4829.9	29.2
60°-70°	1637.2	9.9
70°-80°	83.7	0.5
80°-90°	3.3	0.0
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°	16549.1	100.0
0°-180°	16549.1	100.0

Coefficient of Utilization



REPORT NUMBER: P642515

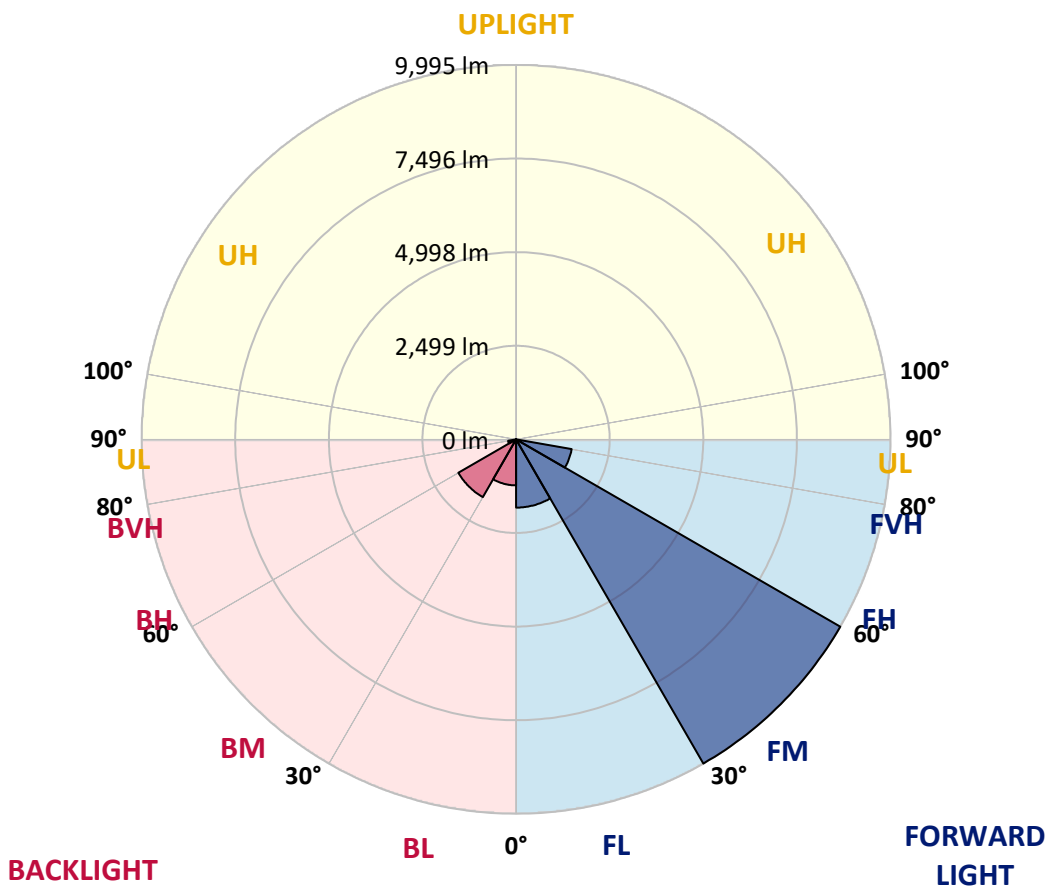
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.7	11.0			
FM (30°-60°)	9995.2	60.4			
FH (60°-80°)	1506.2	9.1			G1/1800
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	1228.4	7.4	B3/2500		
BM (30°-60°)	1779.7	10.8	B2/2500		
BH (60°-80°)	214.6	1.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P642515

CATALOG NUMBER: GWS-SA6D-722-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6
2.5°	3696.2	3688.6	3703.8	3734.0	3762.4	3771.9	3800.2	3840.0	3864.6	3923.2	3970.5
5°	3529.7	3526.0	3541.1	3567.6	3605.4	3618.7	3662.2	3728.4	3794.6	3896.7	3997.0
7.5°	3378.4	3376.5	3399.2	3457.9	3512.7	3529.7	3582.7	3664.1	3753.0	3910.0	4057.5
10°	3179.8	3181.7	3225.2	3308.4	3408.7	3442.7	3527.9	3645.1	3760.5	3962.9	4167.2
12.5°	3115.5	3119.3	3142.0	3206.3	3316.0	3359.5	3478.7	3656.5	3804.0	4038.6	4309.1
15°	3272.5	3272.5	3253.6	3261.1	3310.3	3350.0	3474.9	3694.3	3877.8	4129.4	4449.1
17.5°	3577.0	3565.7	3518.4	3454.1	3437.1	3450.3	3550.6	3775.7	3981.8	4235.3	4608.0
20°	3989.4	3993.2	3900.5	3766.2	3658.4	3656.5	3717.0	3919.4	4131.3	4362.1	4780.1
22.5°	4488.8	4473.7	4350.7	4167.2	3980.0	3964.8	3989.4	4138.8	4346.9	4562.6	4992.0
25°	5067.6	5060.1	4886.0	4640.1	4392.3	4356.4	4356.4	4503.9	4655.3	4848.2	5245.4
27.5°	5672.9	5672.9	5504.6	5220.8	4891.7	4827.4	4817.9	4992.0	5092.2	5130.1	5459.2
30°	6295.3	6287.7	6121.3	5829.9	5478.1	5411.9	5385.4	5514.0	5585.9	5472.4	5725.9
32.5°	6927.1	6940.3	6772.0	6501.5	6187.5	6144.0	6062.6	6062.6	6121.3	5962.4	6145.8
35°	7606.2	7602.4	7470.0	7286.5	7017.9	6968.7	6834.4	6624.4	6713.3	6643.3	6726.6
37.5°	8205.8	8234.2	8169.9	8033.7	7816.1	7767.0	7545.6	7165.4	7233.5	7343.2	7417.0
40°	8814.9	8837.6	8901.9	8858.4	8584.1	8493.3	8099.9	7475.6	7551.3	7927.7	8139.6
42.5°	9412.7	9424.0	9554.5	9626.4	9259.4	9100.5	8519.8	7664.8	7744.3	8385.5	8756.3
45°	9792.9	9817.5	10033.1	10252.5	9855.3	9637.8	8884.9	7906.9	7941.0	8703.3	9212.1
47.5°	9777.7	9834.5	10239.3	10638.4	10367.9	10133.4	9323.8	8294.7	8238.0	9002.2	9512.9
50°	9473.2	9541.3	10122.0	10755.7	10736.8	10519.3	9811.8	8856.5	8678.7	9267.0	9550.7
52.5°	8841.4	9038.1	9915.8	10770.8	11033.8	10924.1	10415.2	9613.2	9274.6	9647.2	9611.3
55°	7475.6	7717.8	9289.7	10642.2	11302.4	11315.6	11048.9	10402.0	9921.5	10301.7	9983.9
57.5°	5674.8	5867.8	7150.3	9473.2	10857.8	11075.4	11294.8	10818.1	10320.6	10748.1	10070.9
60°	3420.0	3643.2	4477.4	6951.7	8769.5	9140.3	10000.9	9908.3	9308.6	9492.1	8258.8
62.5°	1386.6	1503.8	2067.5	3830.5	5519.7	5865.9	6690.6	6830.6	6683.1	6495.8	5009.0
65°	507.0	554.2	828.5	1583.3	2538.5	2665.3	3100.4	3348.2	3552.4	3024.7	1863.2
67.5°	314.0	344.3	539.1	813.4	923.1	858.8	873.9	1042.3	995.0	614.8	332.9
70°	232.7	257.3	421.8	563.7	372.6	287.5	194.8	208.1	187.3	164.6	162.7
72.5°	160.8	183.5	315.9	332.9	143.8	102.1	71.9	100.3	113.5	111.6	115.4
75°	105.9	123.0	198.6	130.5	35.9	28.4	24.6	53.0	68.1	68.1	70.0
77.5°	62.4	71.9	70.0	26.5	7.6	7.6	5.7	9.5	15.1	17.0	20.8
80°	7.6	5.7	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7
82.5°	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7
85°	0.0	0.0	1.9	1.9	3.8	3.8	3.8	3.8	3.8	5.7	5.7
87.5°	0.0	0.0	1.9	1.9	3.8	3.8	3.8	3.8	3.8	5.7	5.7
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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CATALOG NUMBER: GWS-SA6D-722-U-T3R-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6	3968.6
2.5°	4006.4	3993.2	4048.0	4087.8	4119.9	4135.1	4114.3	4112.4	4112.4	4070.7	4059.4
5°	4053.7	4059.4	4137.0	4171.0	4176.7	4157.8	4110.5	4078.3	4059.4	4015.9	3991.3
7.5°	4144.5	4163.4	4237.2	4231.5	4180.5	4093.4	3968.6	3872.1	3809.7	3741.6	3700.0
10°	4275.0	4311.0	4356.4	4276.9	4114.3	3892.9	3635.7	3452.2	3342.5	3264.9	3217.6
12.5°	4433.9	4469.9	4454.7	4267.5	3928.9	3533.5	3202.5	2937.7	2810.9	2740.9	2691.8
15°	4594.7	4617.4	4519.1	4154.0	3601.6	3070.1	2701.2	2438.3	2283.2	2226.4	2184.8
17.5°	4759.3	4753.6	4530.4	3930.8	3164.7	2548.0	2184.8	2005.1	1961.6	1952.1	1948.4
20°	4931.4	4880.4	4485.0	3611.1	2638.8	2031.6	1825.4	1836.8	1916.2	1954.0	1961.6
22.5°	5128.2	4999.5	4371.5	3177.9	2101.6	1693.0	1713.8	1825.4	1933.2	1984.3	1991.9
25°	5338.1	5109.2	4182.4	2621.8	1657.1	1556.8	1679.8	1808.4	1923.8	1986.2	1993.8
27.5°	5476.2	5135.7	3872.1	2061.9	1422.5	1503.8	1634.4	1757.3	1876.5	1944.6	1954.0
30°	5625.7	5124.4	3450.3	1589.0	1343.0	1458.4	1571.9	1683.5	1793.2	1868.9	1876.5
32.5°	5845.1	5116.8	2935.8	1290.1	1310.9	1422.5	1505.7	1598.4	1674.1	1717.6	1711.9
35°	6132.6	5107.4	2336.1	1163.3	1292.0	1394.1	1460.3	1503.8	1420.6	1394.1	1399.8
37.5°	6501.5	5130.1	1831.1	1110.4	1286.3	1386.6	1443.3	1318.5	1189.8	1140.6	1133.1
40°	6910.1	5188.7	1396.0	1089.6	1305.2	1405.5	1379.0	1172.8	1013.9	917.4	896.6
42.5°	7320.5	5253.0	1104.7	1082.0	1337.4	1458.4	1273.1	1066.9	828.5	773.7	766.1
45°	7625.1	5241.7	955.3	1068.8	1365.7	1488.7	1244.7	915.5	739.6	715.0	716.9
47.5°	7778.3	5116.8	873.9	1038.5	1377.1	1458.4	1174.7	853.1	679.1	705.6	728.3
50°	7697.0	4793.3	798.3	979.9	1352.5	1418.7	1063.1	805.8	648.8	758.5	809.6
52.5°	7598.6	4396.1	715.0	889.1	1293.9	1363.9	1019.6	792.6	629.9	732.1	769.9
55°	7729.1	4144.5	578.8	749.1	1178.5	1235.2	985.5	790.7	586.4	569.4	563.7
57.5°	7545.6	3643.2	414.3	539.1	904.2	978.0	960.9	777.5	520.2	518.3	525.9
60°	5831.8	2222.6	283.7	342.4	554.2	624.2	872.0	743.4	448.3	412.4	414.3
62.5°	3314.1	945.8	194.8	211.9	283.7	336.7	665.8	675.3	414.3	393.5	414.3
65°	1153.9	338.6	151.3	141.9	157.0	179.7	382.1	522.1	376.4	340.5	344.3
67.5°	238.3	168.4	134.3	117.3	117.3	117.3	194.8	325.4	310.2	270.5	274.3
70°	151.3	143.8	117.3	100.3	96.5	88.9	111.6	179.7	213.8	196.7	198.6
72.5°	111.6	109.7	92.7	81.3	71.9	64.3	70.0	88.9	109.7	113.5	115.4
75°	68.1	70.0	60.5	51.1	45.4	39.7	41.6	41.6	41.6	37.8	41.6
77.5°	20.8	22.7	18.9	15.1	13.2	13.2	13.2	11.3	9.5	5.7	5.7
80°	5.7	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	0.0	0.0
82.5°	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	0.0	0.0	0.0
85°	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	0.0	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	3.8	3.8	1.9	1.9	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)