

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: P641710

Luminaire Tested: GWS-SA6B-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21560.3 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

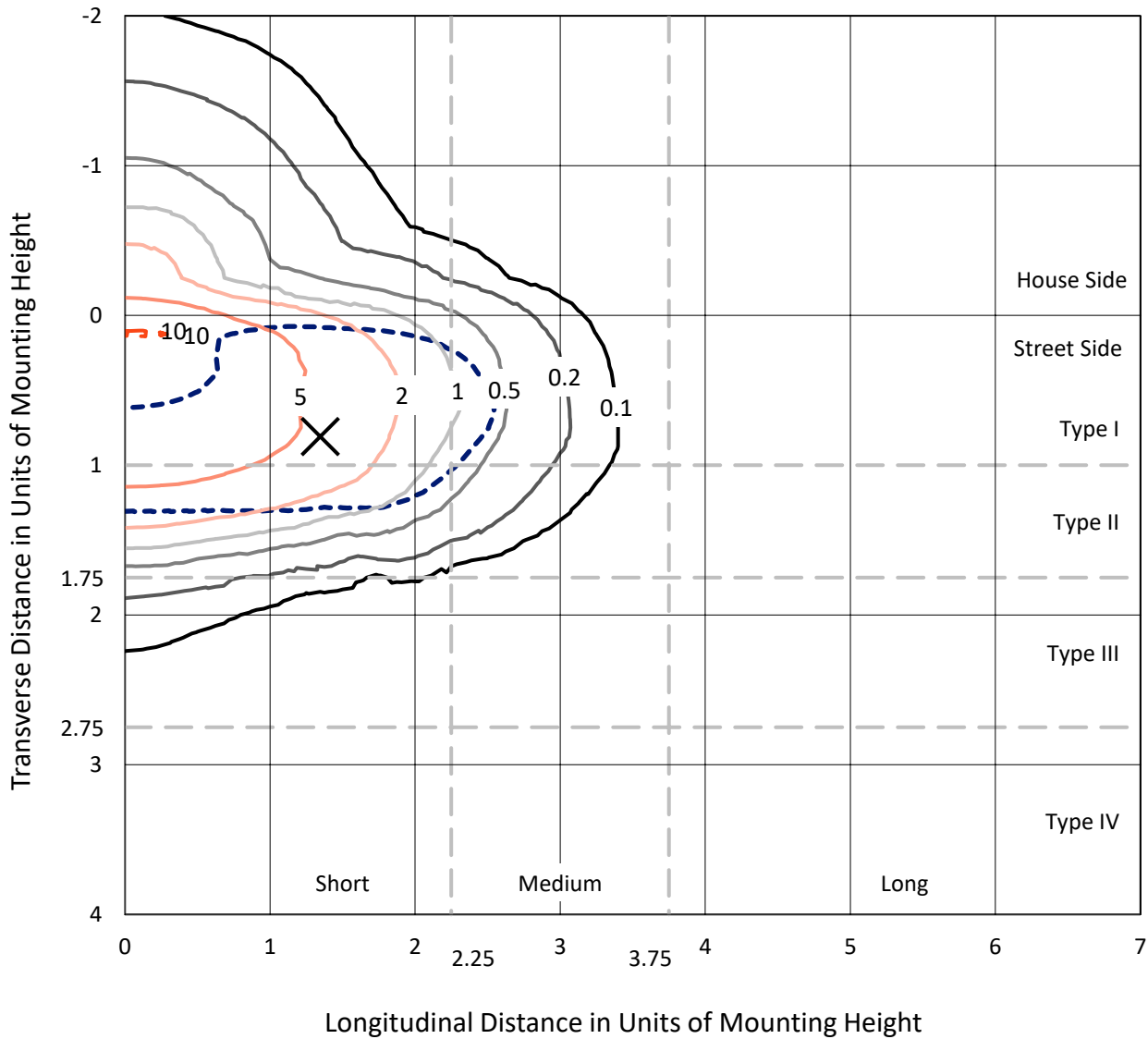
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

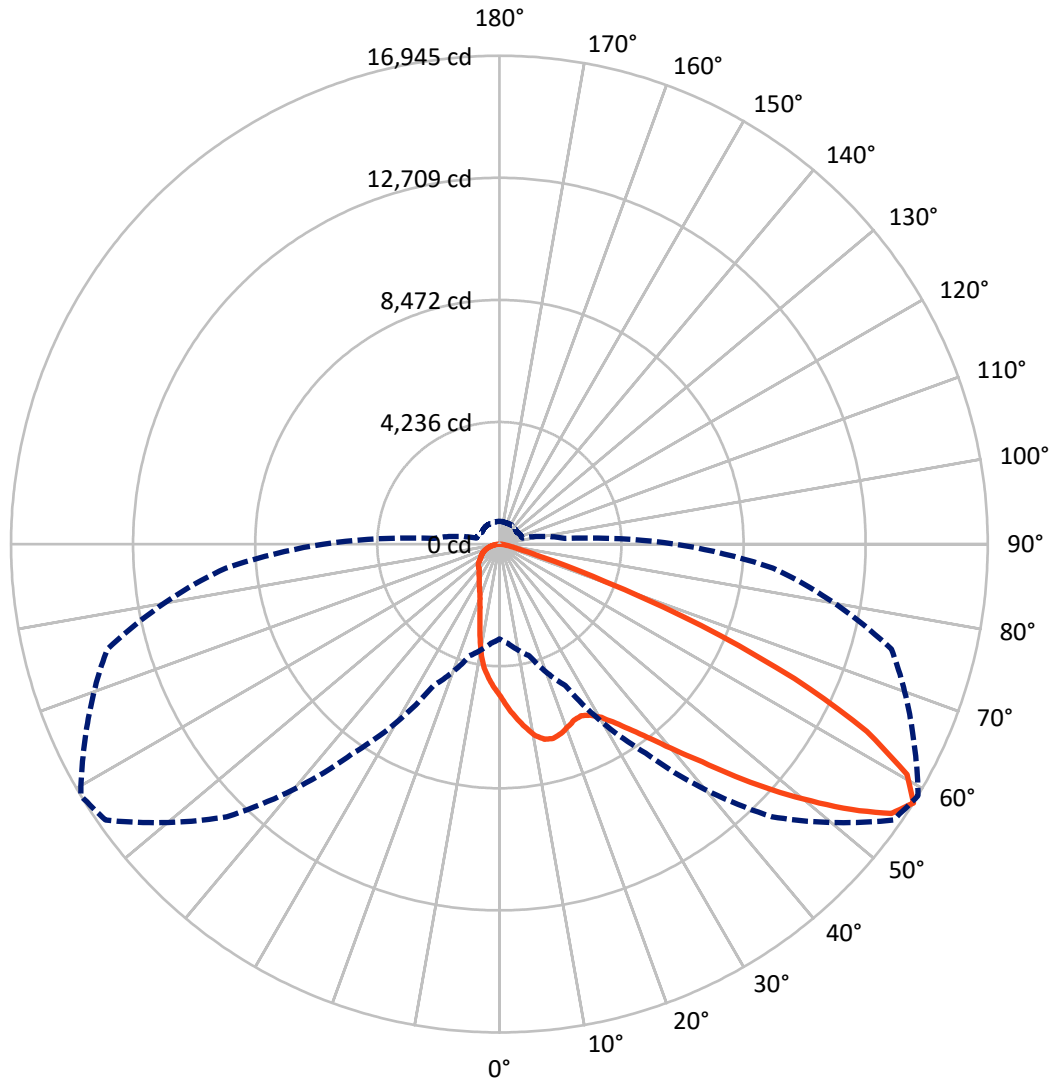
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3346.0	0.0	3346.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18214.3	0.0	18214.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	21560.3	0.0	21560.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	2.3
10°-20°	1245.3	5.8
20°-30°	2018.6	9.4
30°-40°	3247.2	15.1
40°-50°	5042.6	23.4
50°-60°	5431.6	25.2
60°-70°	3152.3	14.6
70°-80°	822.9	3.8
80°-90°	108.4	0.5
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°	21560.3	100.0
0°-180°	21560.3	100.0

Coefficient of Utilization



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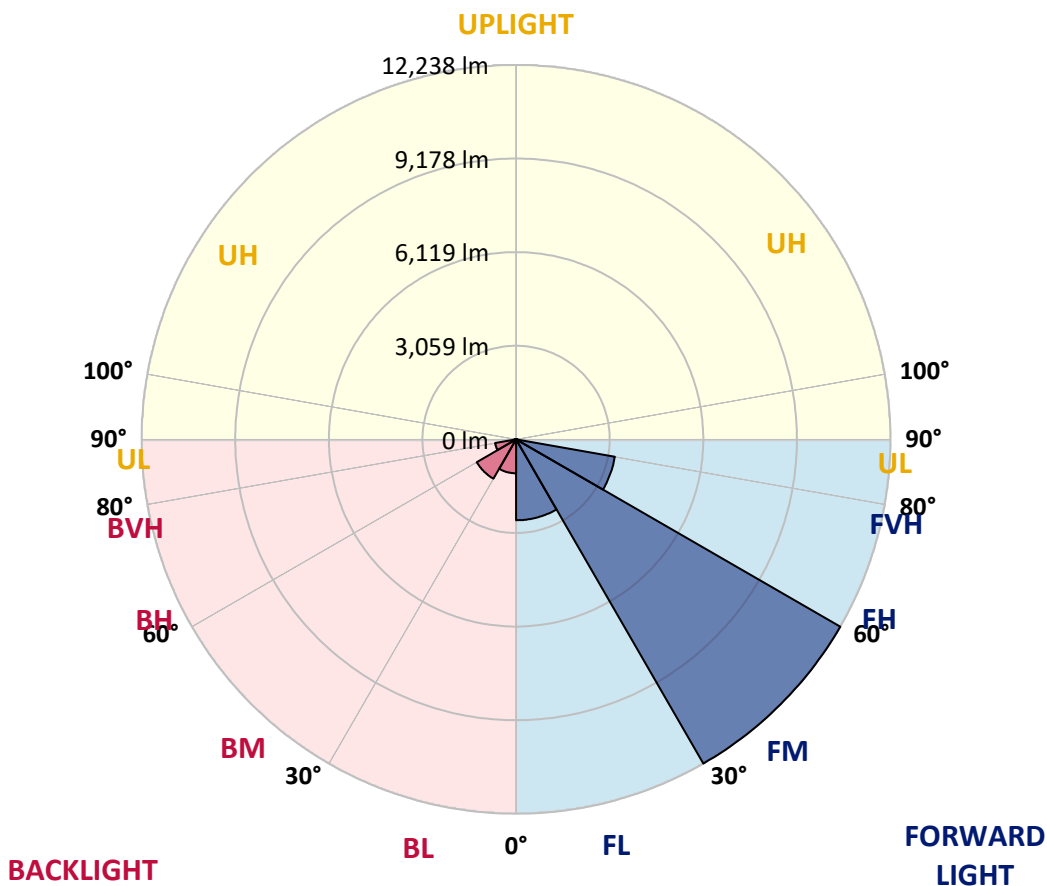
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2645.2	12.3			
FM (30°-60°)	12237.9	56.8			
FH (60°-80°)	3279.2	15.2			G2/5000
FVH (80°-90°)	51.9	0.2			G1/100
BL (0°-30°)	1110.1	5.1	B3/2500		
BM (30°-60°)	1483.5	6.9	B2/2500		
BH (60°-80°)	696.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	56.5	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°	55°	59°	65°	75°	85°
0°	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6
2.5°	6003.0	5952.9	5987.8	5925.6	5899.7	5831.4	5743.4	5684.2	5593.2	5474.8	5371.5
5°	6599.5	6564.6	6572.1	6505.4	6446.2	6332.3	6151.7	6051.5	5896.7	5658.4	5436.8
7.5°	6581.2	6622.2	6645.0	6702.7	6719.4	6708.7	6546.3	6406.7	6236.7	5878.5	5544.6
10°	5899.7	5977.2	6047.0	6244.3	6484.1	6787.7	6825.6	6742.1	6570.6	6159.3	5673.6
12.5°	5157.5	5216.7	5279.0	5515.7	5883.1	6490.2	6901.5	6953.1	6884.8	6437.1	5819.3
15°	4793.3	4820.6	4879.8	5036.1	5329.1	6003.0	6769.5	6995.6	7118.6	6731.5	5983.2
17.5°	4778.1	4790.2	4819.1	4902.5	5105.9	5626.5	6531.2	6910.6	7302.2	7042.7	6174.5
20°	5092.3	5060.4	5042.2	5040.7	5140.8	5500.6	6300.5	6774.0	7388.7	7361.4	6379.4
22.5°	5527.9	5538.5	5499.0	5401.9	5389.8	5590.1	6185.1	6635.9	7414.5	7643.7	6569.1
25°	6145.6	6198.8	6081.9	5896.7	5805.6	5849.7	6256.4	6593.4	7411.5	7879.0	6687.5
27.5°	6866.6	6907.6	6789.2	6546.3	6358.1	6251.9	6468.9	6719.4	7437.3	8082.4	6758.8
30°	7687.7	7701.4	7539.0	7284.0	7009.3	6781.6	6822.6	6978.9	7569.3	8349.5	6842.3
32.5°	8691.0	8748.7	8502.8	8099.1	7715.1	7423.6	7297.7	7397.8	7854.7	8665.2	6971.3
35°	9964.5	9984.2	9671.5	9093.2	8549.9	8146.1	7882.0	7935.1	8288.8	9106.9	7165.6
37.5°	11165.1	11184.8	10852.4	10315.1	9538.0	8985.5	8603.0	8578.7	8844.3	9730.7	7482.8
40°	11927.0	11983.2	11834.4	11497.5	10755.2	10010.0	9490.9	9407.4	9572.9	10494.2	7924.5
42.5°	12336.8	12361.1	12358.1	12402.1	11960.4	11219.7	10492.7	10325.7	10436.5	11318.3	8370.8
45°	12339.8	12400.6	12563.0	12986.4	13006.2	12544.7	11758.5	11497.5	11395.8	12148.6	8836.7
47.5°	11787.4	11852.6	12298.9	13132.1	13746.9	13851.6	13274.8	12751.2	12323.1	12863.5	9219.2
50°	10114.7	10278.6	11128.6	12602.4	13892.6	14898.9	14721.3	14011.0	13147.3	13416.0	9459.0
52.5°	8662.2	8656.1	9179.7	11105.9	13283.9	15360.3	16120.7	15307.2	13962.4	13766.6	9519.7
55°	6343.0	6377.9	6913.6	8493.7	11659.9	14914.1	16890.3	16500.2	14897.4	13953.3	9495.5
57.5°	3289.1	3462.1	4011.6	5420.1	8859.5	13378.0	16685.3	16944.9	15847.5	14085.3	9527.3
60°	1662.0	1628.6	1825.9	2587.9	5133.3	10448.6	15422.5	16249.7	16019.0	14188.5	9547.1
62.5°	1109.5	1100.4	1045.8	1199.1	2097.6	6188.1	13147.3	14306.9	14827.5	13945.7	9295.1
65°	960.8	942.6	842.4	836.3	1018.5	2566.6	9636.6	11247.0	12254.8	12866.5	8692.5
67.5°	865.2	837.8	736.1	686.1	731.6	1127.7	5430.7	7543.5	9049.2	10881.2	7372.0
70°	772.6	758.9	657.2	584.4	579.8	687.6	2000.5	3893.2	5537.0	7423.6	5389.8
72.5°	692.1	667.8	581.3	511.5	476.6	487.2	868.2	1499.6	2865.6	4630.9	3223.8
75°	599.5	581.3	505.4	435.6	393.1	356.7	529.7	693.6	1306.8	2200.8	1522.4
77.5°	462.9	450.8	399.2	346.1	321.8	265.6	321.8	437.1	604.1	927.4	792.3
80°	268.7	276.2	297.5	270.2	236.8	189.7	209.5	252.0	362.8	502.4	449.3
82.5°	135.1	144.2	192.8	156.3	141.2	110.8	124.5	148.7	189.7	277.8	176.1
85°	10.6	10.6	34.9	39.5	48.6	39.5	50.1	60.7	86.5	110.8	59.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	7.6	13.7	25.8	16.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6	5292.6
2.5°	5301.7	5224.3	5131.7	5055.8	4939.0	4876.7	4797.8	4700.7	4661.2	4643.0	4632.4
5°	5312.4	5175.8	4978.4	4796.3	4594.4	4435.1	4257.5	4072.3	3966.1	3940.2	3922.0
7.5°	5351.8	5160.6	4846.4	4545.9	4171.0	3823.4	3484.9	3149.5	2978.0	2912.7	2906.6
10°	5406.5	5154.5	4712.8	4213.5	3580.5	3031.1	2634.9	2372.3	2261.5	2225.1	2213.0
12.5°	5474.8	5149.9	4536.8	3752.0	2899.0	2379.9	2153.8	2111.3	2126.5	2123.4	2123.4
15°	5561.3	5156.0	4324.3	3229.9	2345.0	2065.7	2070.3	2120.4	2167.4	2175.0	2175.0
17.5°	5655.4	5149.9	4016.1	2706.3	2012.6	1991.4	2061.2	2131.0	2173.5	2179.6	2179.6
20°	5757.1	5121.1	3627.6	2213.0	1866.9	1944.3	2020.2	2074.9	2100.7	2106.7	2106.7
22.5°	5817.8	5039.1	3205.6	1873.0	1774.3	1869.9	1920.0	1976.2	1979.2	1930.7	1929.1
25°	5808.7	4885.8	2724.5	1654.4	1675.7	1759.1	1822.9	1783.4	1734.9	1707.5	1703.0
27.5°	5751.0	4655.1	2234.2	1489.0	1558.8	1652.9	1633.2	1599.8	1587.6	1557.3	1554.2
30°	5678.1	4371.3	1794.1	1360.0	1437.4	1523.9	1493.5	1490.5	1478.4	1445.0	1445.0
32.5°	5608.3	4078.4	1461.7	1264.3	1360.0	1366.0	1408.5	1411.6	1405.5	1347.8	1341.7
35°	5588.6	3785.4	1237.0	1188.4	1284.1	1281.0	1341.7	1340.2	1235.5	1155.1	1153.5
37.5°	5647.8	3487.9	1103.5	1126.2	1179.3	1218.8	1267.4	1179.3	1144.4	1095.9	1092.8
40°	5773.8	3213.2	1035.2	1089.8	1112.6	1170.2	1094.3	1100.4	1091.3	1054.9	1050.3
42.5°	5940.7	2979.5	997.2	1077.6	1074.6	1089.8	1006.3	1030.6	1044.3	1016.9	1012.4
45°	6101.6	2776.1	977.5	1032.1	1047.3	959.3	942.6	965.3	986.6	976.0	971.4
47.5°	6220.0	2600.0	966.8	969.9	1012.4	915.2	887.9	898.5	924.3	928.9	927.4
50°	6256.4	2449.8	954.7	918.3	909.2	871.2	850.0	846.9	877.3	898.5	901.6
52.5°	6186.6	2316.2	922.8	872.7	828.7	834.8	827.2	812.0	842.4	871.2	874.3
55°	6083.4	2240.3	872.7	828.7	777.1	801.4	804.4	790.8	810.5	830.2	830.2
57.5°	6091.0	2284.3	824.2	787.7	731.6	763.5	780.2	774.1	774.1	789.3	790.8
60°	6141.1	2348.1	792.3	736.1	686.1	719.4	757.4	751.3	737.7	757.4	757.4
62.5°	5996.9	2263.1	771.1	686.1	637.5	676.9	722.5	719.4	704.3	736.1	739.2
65°	5571.9	2035.4	746.8	623.8	588.9	634.4	673.9	684.5	670.9	713.4	721.0
67.5°	4670.3	1712.1	699.7	564.6	540.3	582.8	620.8	636.0	625.3	675.4	681.5
70°	3481.9	1385.8	625.3	499.4	481.1	519.1	554.0	560.1	561.6	620.8	626.9
72.5°	2220.6	1077.6	526.7	426.5	412.8	441.7	467.5	491.8	502.4	558.6	557.0
75°	1238.5	801.4	423.5	361.2	337.0	359.7	390.1	418.9	449.3	531.2	540.3
77.5°	713.4	563.1	335.4	289.9	261.1	285.3	311.2	352.1	443.2	514.5	505.4
80°	402.2	365.8	253.5	212.5	194.3	212.5	232.2	309.6	349.1	379.5	384.0
82.5°	188.2	204.9	173.0	130.5	130.5	142.7	160.9	239.8	264.1	215.5	188.2
85°	68.3	92.6	85.0	66.8	59.2	57.7	100.2	136.6	85.0	75.9	65.3
87.5°	18.2	25.8	24.3	16.7	9.1	7.6	0.0	0.0	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)