

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: P639345

Luminaire Tested: GWS-SA5B-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639345
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-SA5B-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18241.9 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

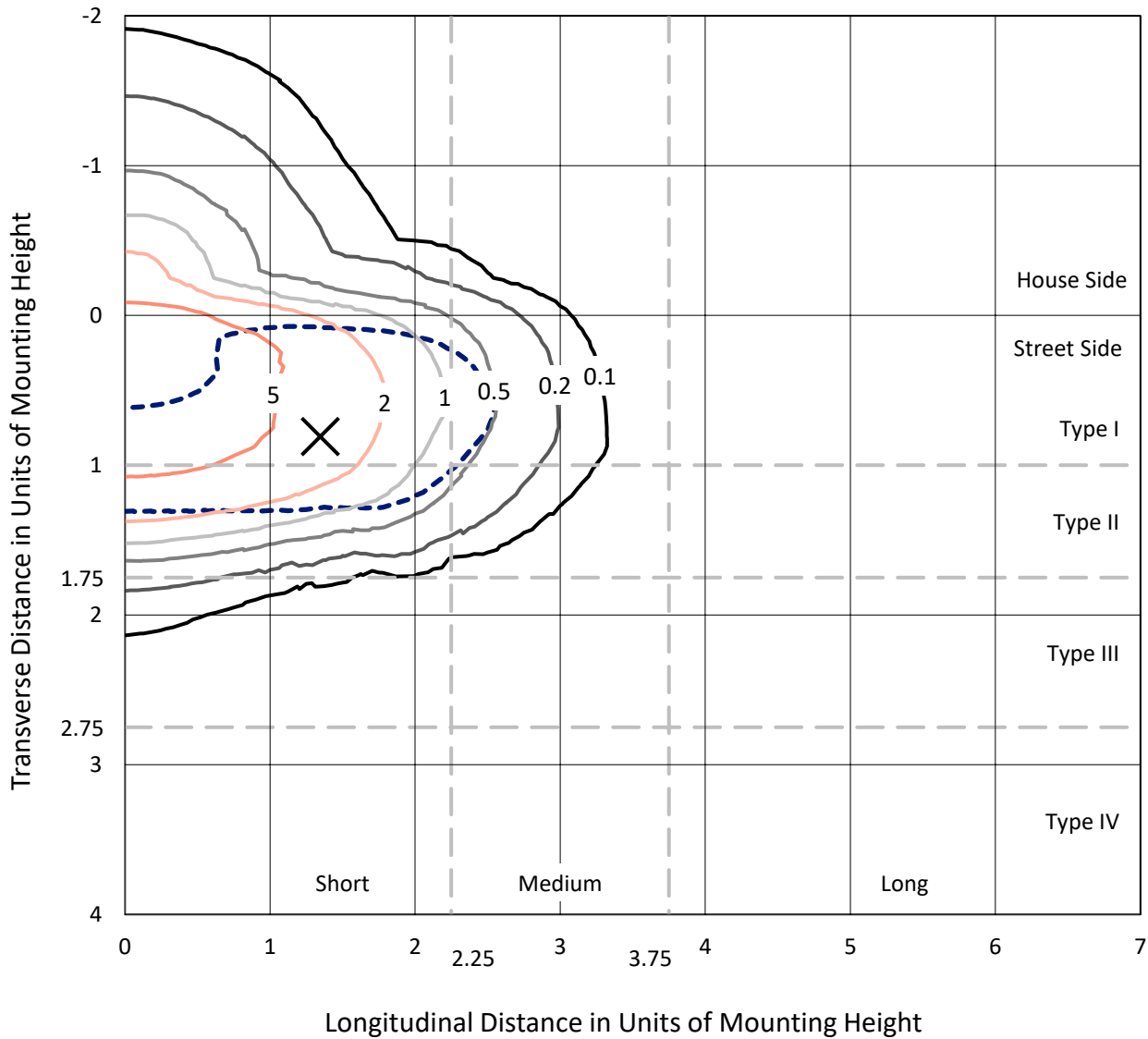
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

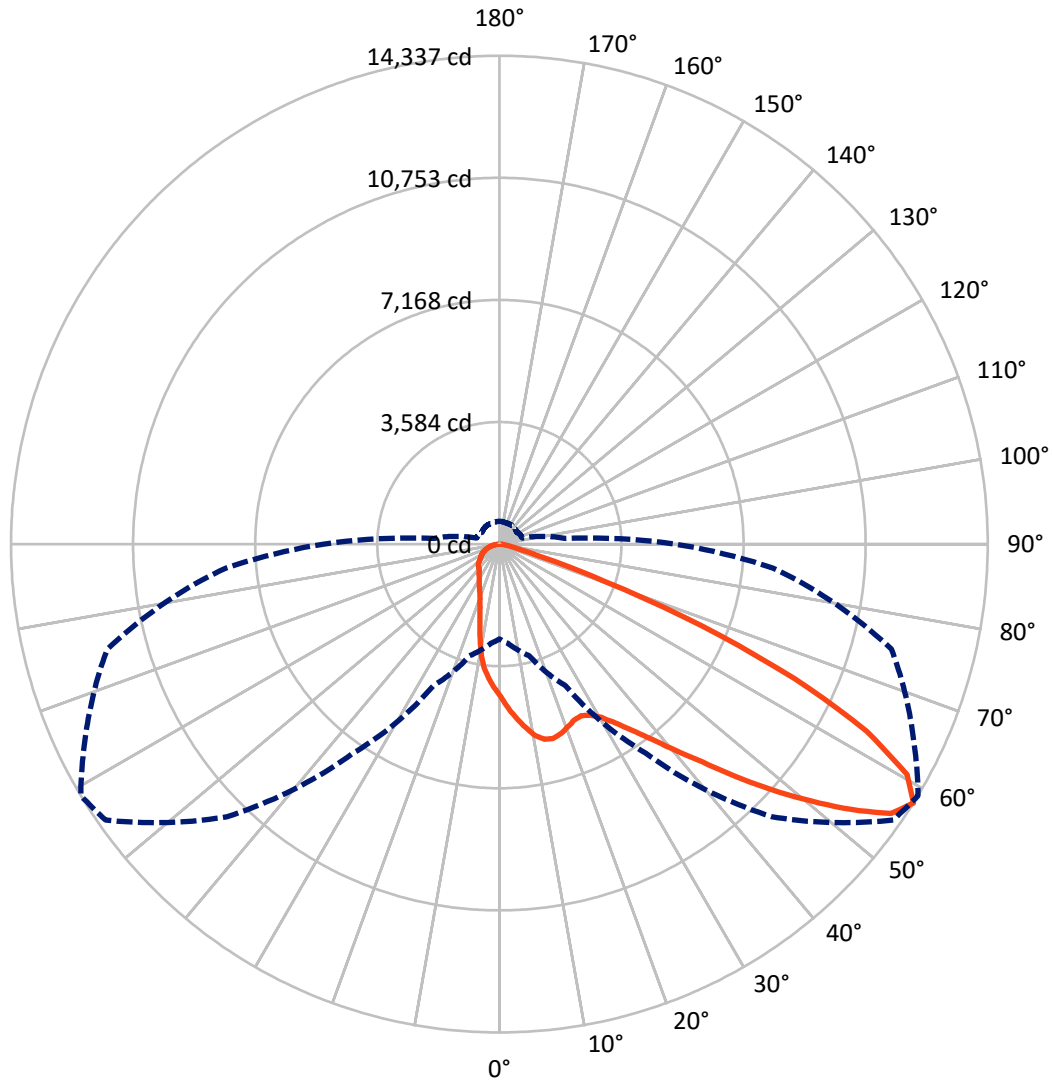
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	2831.0	0.0	2831.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15410.9	0.0	15410.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	18241.9	0.0	18241.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.8	2.3
10°-20°	1053.6	5.8
20°-30°	1707.9	9.4
30°-40°	2747.4	15.1
40°-50°	4266.5	23.4
50°-60°	4595.6	25.2
60°-70°	2667.1	14.6
70°-80°	696.3	3.8
80°-90°	91.7	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°	18241.9	100.0
0°-180°	18241.9	100.0

Coefficient of Utilization



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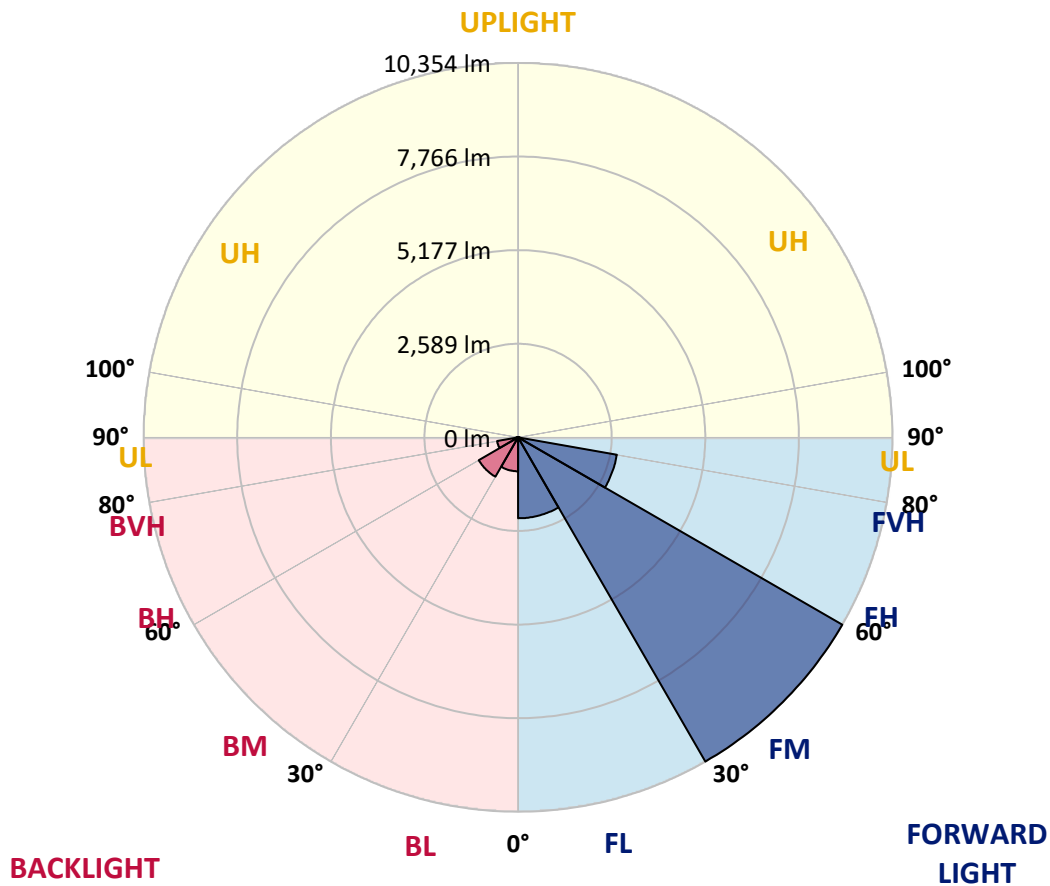
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2238.1	12.3			
FM (30°-60°)	10354.3	56.8			
FH (60°-80°)	2774.5	15.2			G2/5000
FVH (80°-90°)	43.9	0.2			G1/100
BL (0°-30°)	939.2	5.1	B2/1000		
BM (30°-60°)	1255.2	6.9	B2/2500		
BH (60°-80°)	588.8	3.2	B2/1000		G2/1000
BVH (80°-90°)	47.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0
2.5°	5079.0	5036.7	5066.2	5013.5	4991.7	4933.9	4859.4	4809.3	4732.3	4632.1	4544.8
5°	5583.7	5554.2	5560.6	5504.1	5454.0	5357.7	5204.9	5120.1	4989.1	4787.5	4600.0
7.5°	5568.3	5603.0	5622.2	5671.0	5685.2	5676.2	5538.8	5420.6	5276.8	4973.7	4691.2
10°	4991.7	5057.2	5116.3	5283.2	5486.1	5743.0	5775.1	5704.4	5559.3	5211.3	4800.4
12.5°	4363.7	4413.8	4466.5	4666.8	4977.6	5491.3	5839.3	5882.9	5825.2	5446.3	4923.6
15°	4055.5	4078.6	4128.7	4261.0	4508.8	5079.0	5727.6	5918.9	6022.9	5695.4	5062.3
17.5°	4042.7	4052.9	4077.3	4148.0	4320.1	4760.5	5525.9	5847.0	6178.3	5958.7	5224.1
20°	4308.5	4281.5	4266.1	4264.8	4349.6	4654.0	5330.7	5731.4	6251.5	6228.4	5397.5
22.5°	4677.1	4686.1	4652.7	4570.5	4560.2	4729.7	5233.1	5614.5	6273.3	6467.3	5558.0
25°	5199.7	5244.7	5145.8	4989.1	4912.1	4949.3	5293.5	5578.6	6270.8	6666.3	5658.2
27.5°	5809.7	5844.4	5744.2	5538.8	5379.5	5289.6	5473.3	5685.2	6292.6	6838.4	5718.6
30°	6504.5	6516.1	6378.6	6162.9	5930.5	5737.8	5772.5	5904.8	6404.3	7064.4	5789.2
32.5°	7353.4	7402.2	7194.1	6852.5	6527.6	6281.0	6174.5	6259.2	6645.8	7331.5	5898.4
35°	8430.8	8447.5	8183.0	7693.7	7233.9	6892.3	6668.9	6713.8	7013.0	7705.2	6062.7
37.5°	9446.6	9463.3	9182.1	8727.5	8069.9	7602.5	7278.9	7258.3	7483.1	8233.0	6331.1
40°	10091.3	10138.8	10012.9	9727.9	9099.9	8469.3	8030.1	7959.5	8099.5	8879.0	6704.8
42.5°	10438.0	10458.6	10456.0	10493.2	10119.5	9492.8	8877.7	8736.4	8830.2	9576.3	7082.4
45°	10440.6	10492.0	10629.4	10987.7	11004.3	10614.0	9948.7	9727.9	9641.8	10278.8	7476.6
47.5°	9973.1	10028.4	10405.9	11110.9	11631.0	11719.7	11231.7	10788.6	10426.5	10883.6	7800.3
50°	8557.9	8696.6	9415.8	10662.8	11754.3	12605.8	12455.5	11854.5	11123.8	11351.1	8003.2
52.5°	7329.0	7323.8	7766.9	9396.5	11239.4	12996.2	13639.5	12951.2	11813.4	11647.7	8054.5
55°	5366.7	5396.2	5849.6	7186.4	9865.3	12618.6	14290.6	13960.6	12604.5	11805.7	8034.0
57.5°	2782.9	2929.3	3394.2	4585.9	7495.9	11319.0	14117.3	14336.9	13408.4	11917.4	8061.0
60°	1406.2	1378.0	1544.9	2189.6	4343.2	8840.5	13048.8	13748.7	13553.5	12004.7	8077.6
62.5°	938.8	931.0	884.8	1014.5	1774.8	5235.7	11123.8	12104.9	12545.4	11799.3	7864.5
65°	812.9	797.5	712.7	707.6	861.7	2171.6	8153.4	9516.0	10368.7	10886.2	7354.6
67.5°	732.0	708.9	622.8	580.5	619.0	954.2	4594.9	6382.5	7656.4	9206.5	6237.4
70°	653.7	642.1	556.1	494.4	490.6	581.7	1692.6	3294.0	4684.8	6281.0	4560.2
72.5°	585.6	565.1	491.9	432.8	403.2	412.2	734.6	1268.8	2424.6	3918.1	2727.7
75°	507.3	491.9	427.6	368.6	332.6	301.8	448.2	586.9	1105.7	1862.1	1288.1
77.5°	391.7	381.4	337.7	292.8	272.3	224.7	272.3	369.9	511.1	784.6	670.4
80°	227.3	233.7	251.7	228.6	200.3	160.5	177.2	213.2	306.9	425.1	380.1
82.5°	114.3	122.0	163.1	132.3	119.4	93.7	105.3	125.9	160.5	235.0	149.0
85°	9.0	9.0	29.5	33.4	41.1	33.4	42.4	51.4	73.2	93.7	50.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.9	6.4	11.6	21.8	14.1
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°	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0	4478.0
2.5°	4485.7	4420.2	4341.9	4277.7	4178.8	4126.1	4059.4	3977.2	3943.8	3928.4	3919.4
5°	4494.7	4379.1	4212.2	4058.1	3887.3	3752.4	3602.2	3445.5	3355.6	3333.8	3318.4
7.5°	4528.1	4366.3	4100.5	3846.2	3529.0	3234.9	2948.5	2664.7	2519.6	2464.4	2459.3
10°	4574.3	4361.2	3987.5	3565.0	3029.4	2564.6	2229.4	2007.2	1913.5	1882.6	1872.4
12.5°	4632.1	4357.3	3838.5	3174.6	2452.8	2013.6	1822.3	1786.3	1799.2	1796.6	1796.6
15°	4705.3	4362.4	3658.7	2732.8	1984.1	1747.8	1751.7	1794.0	1833.8	1840.3	1840.3
17.5°	4784.9	4357.3	3398.0	2289.7	1702.9	1684.9	1743.9	1803.0	1839.0	1844.1	1844.1
20°	4871.0	4332.9	3069.2	1872.4	1579.6	1645.1	1709.3	1755.5	1777.3	1782.5	1782.5
22.5°	4922.4	4263.6	2712.2	1584.7	1501.2	1582.1	1624.5	1672.0	1674.6	1633.5	1632.2
25°	4914.7	4133.9	2305.1	1399.8	1417.8	1488.4	1542.3	1508.9	1467.8	1444.7	1440.9
27.5°	4865.9	3938.7	1890.3	1259.8	1318.9	1398.5	1381.8	1353.6	1343.3	1317.6	1315.0
30°	4804.2	3698.5	1517.9	1150.6	1216.1	1289.3	1263.7	1261.1	1250.8	1222.6	1222.6
32.5°	4745.1	3450.7	1236.7	1069.7	1150.6	1155.8	1191.7	1194.3	1189.2	1140.4	1135.2
35°	4728.4	3202.8	1046.6	1005.5	1086.4	1083.9	1135.2	1134.0	1045.3	977.3	976.0
37.5°	4778.5	2951.1	933.6	952.9	997.8	1031.2	1072.3	997.8	968.3	927.2	924.6
40°	4885.1	2718.7	875.8	922.1	941.3	990.1	925.9	931.0	923.3	892.5	888.7
42.5°	5026.4	2520.9	843.7	911.8	909.2	922.1	851.4	872.0	883.5	860.4	856.6
45°	5162.5	2348.8	827.0	873.3	886.1	811.6	797.5	816.8	834.7	825.7	821.9
47.5°	5262.7	2199.8	818.0	820.6	856.6	774.4	751.3	760.2	782.1	785.9	784.6
50°	5293.5	2072.7	807.8	776.9	769.2	737.1	719.2	716.6	742.3	760.2	762.8
52.5°	5234.4	1959.7	780.8	738.4	701.2	706.3	699.9	687.0	712.7	737.1	739.7
55°	5147.1	1895.5	738.4	701.2	657.5	678.1	680.6	669.1	685.8	702.5	702.5
57.5°	5153.5	1932.7	697.3	666.5	619.0	646.0	660.1	654.9	654.9	667.8	669.1
60°	5195.9	1986.7	670.4	622.8	580.5	608.7	640.8	635.7	624.1	640.8	640.8
62.5°	5073.9	1914.7	652.4	580.5	539.4	572.8	611.3	608.7	595.9	622.8	625.4
65°	4714.3	1722.1	631.8	527.8	498.3	536.8	570.2	579.2	567.6	603.6	610.0
67.5°	3951.5	1448.6	592.0	477.7	457.2	493.1	525.2	538.1	529.1	571.5	576.6
70°	2946.0	1172.5	529.1	422.5	407.1	439.2	468.7	473.9	475.2	525.2	530.4
72.5°	1878.8	911.8	445.6	360.9	349.3	373.7	395.5	416.1	425.1	472.6	471.3
75°	1047.9	678.1	358.3	305.6	285.1	304.4	330.0	354.4	380.1	449.5	457.2
77.5°	603.6	476.4	283.8	245.3	220.9	241.4	263.3	297.9	375.0	435.3	427.6
80°	340.3	309.5	214.5	179.8	164.4	179.8	196.5	262.0	295.4	321.1	324.9
82.5°	159.2	173.4	146.4	110.4	110.4	120.7	136.1	202.9	223.5	182.4	159.2
85°	57.8	78.3	71.9	56.5	50.1	48.8	84.8	115.6	71.9	64.2	55.2
87.5°	15.4	21.8	20.5	14.1	7.7	6.4	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)