

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: P639180

Luminaire Tested: GWS-SA5B-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639180
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-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17833.2 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

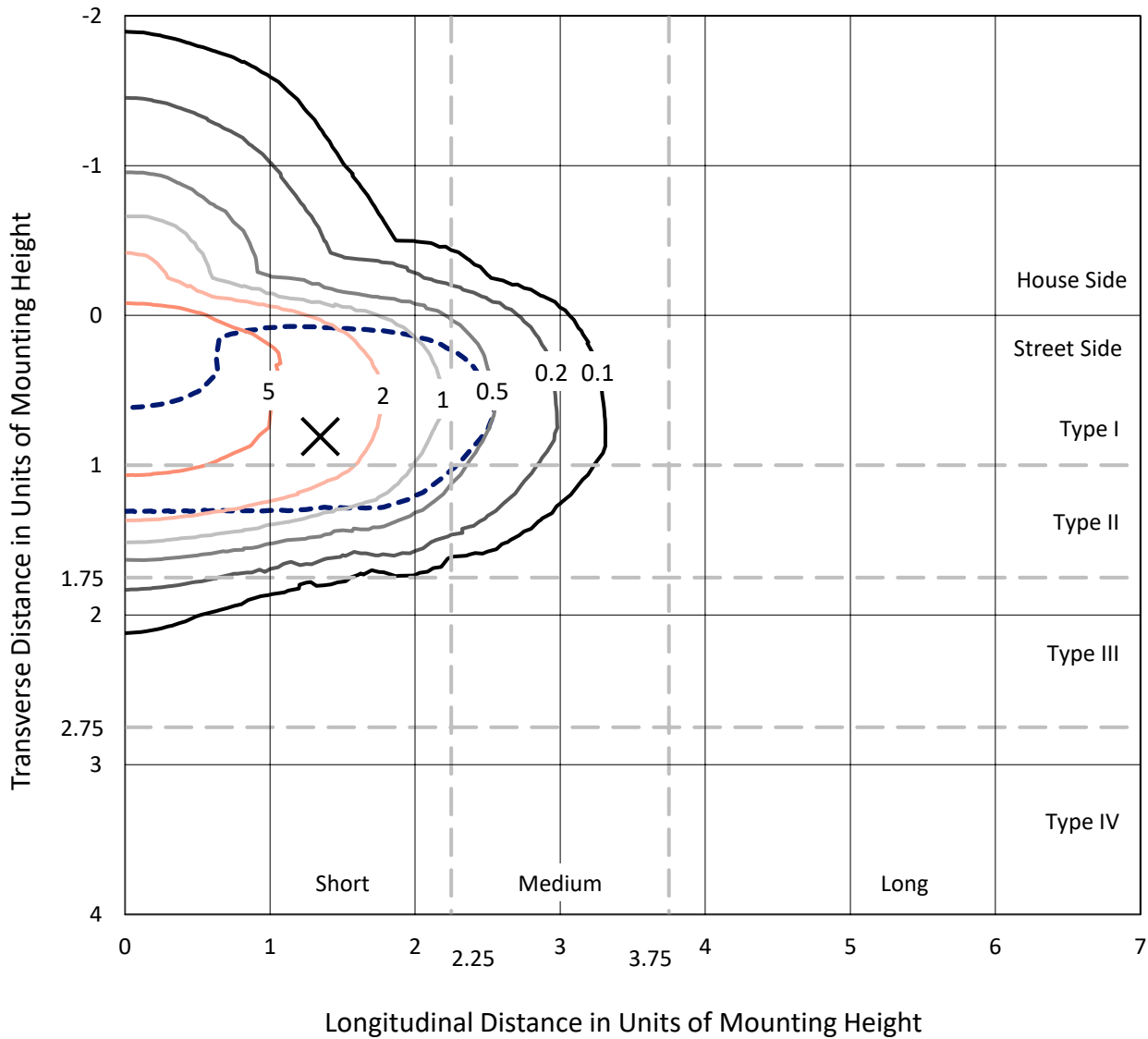
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

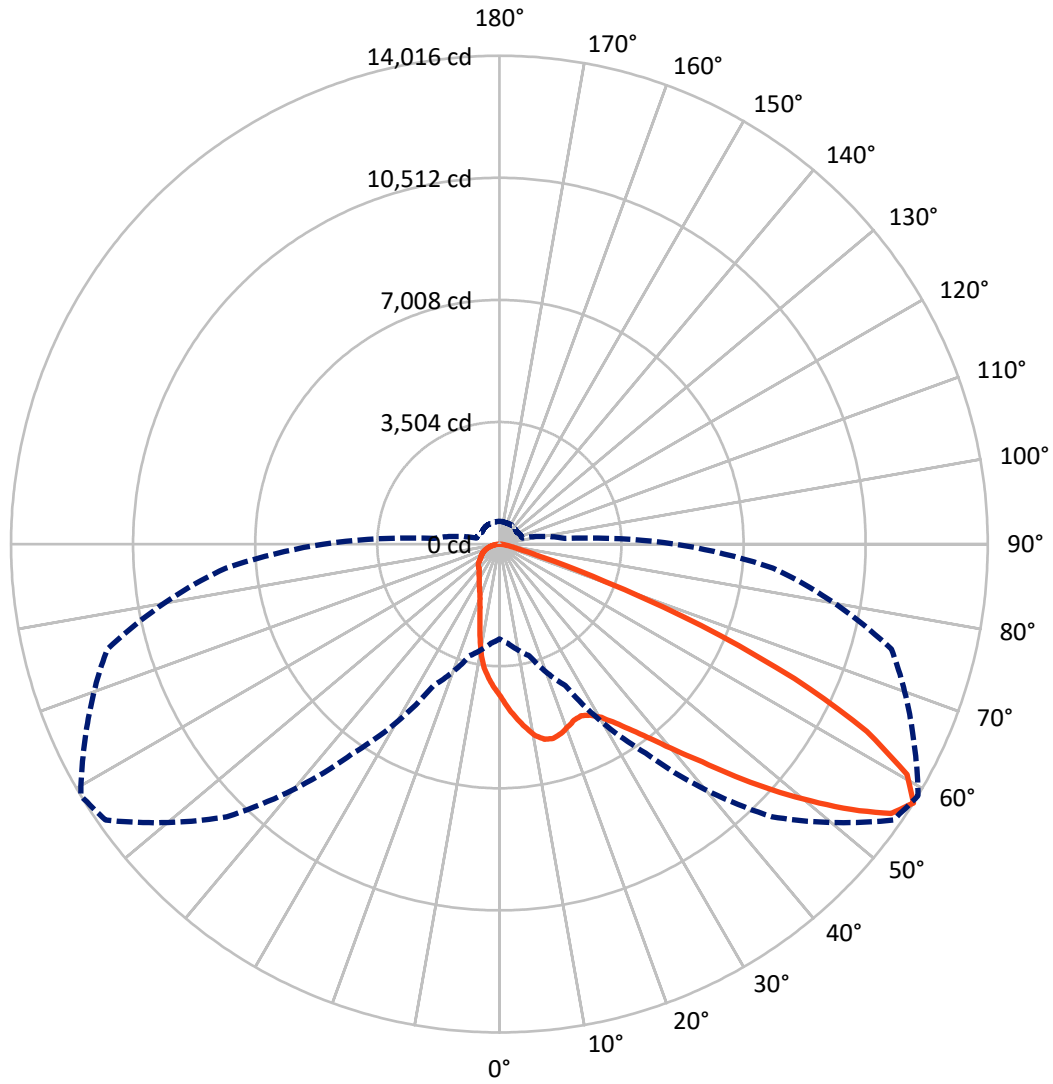
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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	2767.6	0.0	2767.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15065.6	0.0	15065.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	17833.2	0.0	17833.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	2.3
10°-20°	1030.0	5.8
20°-30°	1669.7	9.4
30°-40°	2685.9	15.1
40°-50°	4170.9	23.4
50°-60°	4492.6	25.2
60°-70°	2607.3	14.6
70°-80°	680.7	3.8
80°-90°	89.7	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°	17833.2	100.0
0°-180°	17833.2	100.0

Coefficient of Utilization



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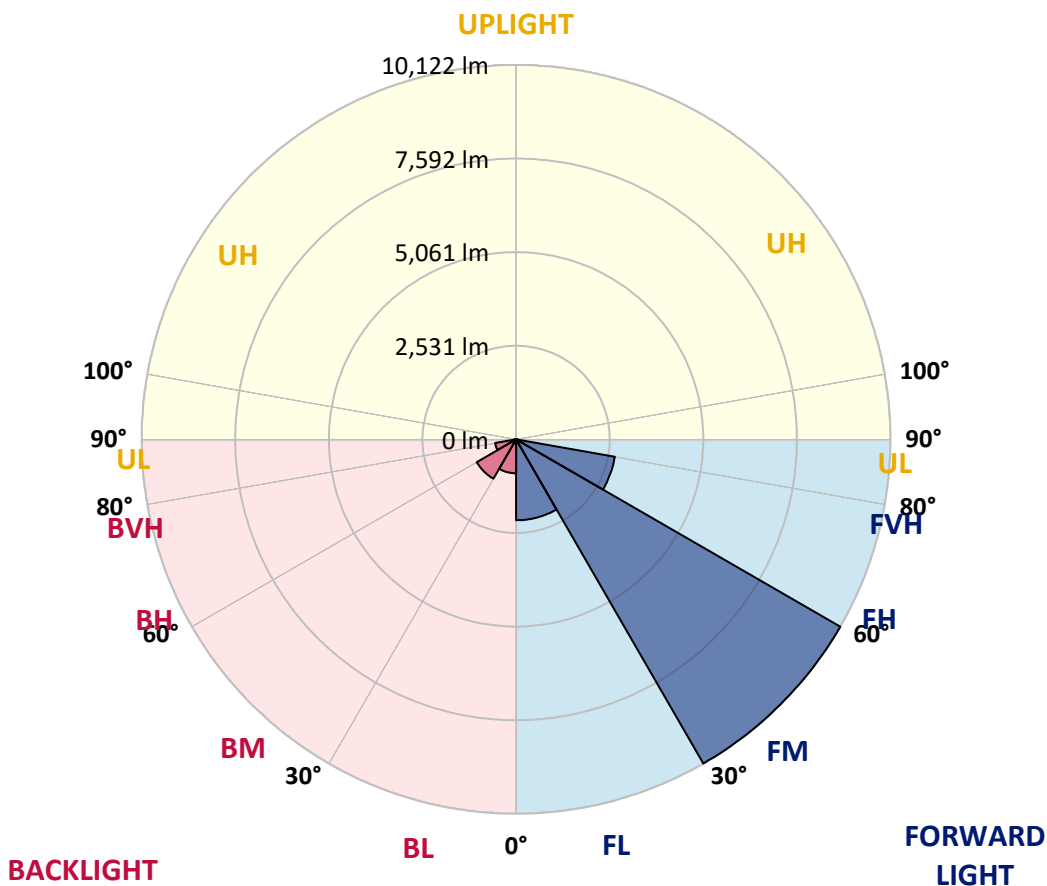
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2188.0	12.3			
FM (30°-60°)	10122.3	56.8			
FH (60°-80°)	2712.4	15.2			G2/5000
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	918.2	5.1	B2/1000		
BM (30°-60°)	1227.1	6.9	B2/2500		
BH (60°-80°)	575.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	46.7	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°	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7
2.5°	4965.2	4923.8	4952.7	4901.2	4879.9	4823.4	4750.6	4701.6	4626.3	4528.3	4443.0
5°	5458.6	5429.7	5436.0	5380.8	5331.8	5237.7	5088.3	5005.4	4877.4	4680.3	4497.0
7.5°	5443.6	5477.5	5496.3	5544.0	5557.8	5549.0	5414.7	5299.2	5158.6	4862.3	4586.1
10°	4879.9	4943.9	5001.6	5164.9	5363.2	5614.3	5645.7	5576.6	5434.8	5094.5	4692.8
12.5°	4266.0	4314.9	4366.4	4562.2	4866.1	5368.2	5708.5	5751.1	5694.6	5324.3	4813.3
15°	3964.7	3987.3	4036.2	4165.5	4407.8	4965.2	5599.2	5786.3	5888.0	5567.8	4948.9
17.5°	3952.1	3962.1	3986.0	4055.0	4223.3	4653.9	5402.1	5716.0	6039.9	5825.2	5107.1
20°	4212.0	4185.6	4170.5	4169.3	4252.2	4549.7	5211.3	5603.0	6111.4	6088.8	5276.6
22.5°	4572.3	4581.1	4548.4	4468.1	4458.0	4623.8	5115.9	5488.8	6132.8	6322.4	5433.5
25°	5083.2	5127.2	5030.5	4877.4	4802.0	4838.4	5174.9	5453.6	6130.3	6517.0	5531.4
27.5°	5679.6	5713.5	5615.6	5414.7	5259.0	5171.1	5350.7	5557.8	6151.6	6685.2	5590.4
30°	6358.8	6370.1	6235.7	6024.8	5797.6	5609.3	5643.2	5772.5	6260.8	6906.1	5659.5
32.5°	7188.6	7236.3	7032.9	6699.0	6381.4	6140.3	6036.1	6119.0	6496.9	7167.3	5766.2
35°	8241.9	8258.2	7999.6	7521.3	7071.9	6737.9	6519.5	6563.4	6855.9	7532.6	5926.9
37.5°	9235.0	9251.3	8976.3	8531.9	7889.1	7432.2	7115.8	7095.7	7315.4	8048.6	6189.3
40°	9865.2	9911.6	9788.6	9509.9	8896.0	8279.6	7850.2	7781.2	7918.0	8680.1	6554.6
42.5°	10204.2	10224.2	10221.7	10258.1	9892.8	9280.2	8678.8	8540.7	8632.4	9361.8	6923.7
45°	10206.7	10256.9	10391.2	10741.5	10757.8	10376.2	9725.8	9509.9	9425.8	10048.5	7309.1
47.5°	9749.7	9803.7	10172.8	10862.0	11370.5	11457.1	10980.0	10546.9	10192.9	10639.8	7625.5
50°	8366.2	8501.8	9204.8	10423.9	11491.0	12323.3	12176.4	11588.9	10874.6	11096.8	7823.9
52.5°	7164.8	7159.7	7592.9	9186.0	10987.5	12705.0	13334.0	12661.0	11548.7	11386.8	7874.1
55°	5246.5	5275.3	5718.5	7025.4	9644.2	12335.9	13970.5	13647.8	12322.1	11541.2	7854.0
57.5°	2720.5	2863.6	3318.1	4483.2	7328.0	11065.4	13801.0	14015.7	13108.0	11650.4	7880.4
60°	1374.7	1347.1	1510.3	2140.5	4245.9	8642.4	12756.5	13440.7	13249.8	11735.8	7896.7
62.5°	917.7	910.2	865.0	991.8	1735.0	5118.4	10874.6	11833.7	12264.3	11534.9	7688.3
65°	794.7	779.6	696.8	691.7	842.4	2122.9	7970.7	9302.8	10136.4	10642.3	7189.9
67.5°	715.6	693.0	608.9	567.5	605.1	932.8	4491.9	6239.5	7484.9	9000.2	6097.6
70°	639.0	627.7	543.6	483.3	479.6	568.7	1654.7	3220.2	4579.8	6140.3	4458.0
72.5°	572.5	552.4	480.8	423.1	394.2	403.0	718.1	1240.4	2370.3	3830.3	2666.5
75°	495.9	480.8	418.1	360.3	325.2	295.0	438.1	573.7	1080.9	1820.4	1259.2
77.5°	382.9	372.9	330.2	286.2	266.2	219.7	266.2	361.6	499.7	767.1	655.3
80°	222.2	228.5	246.1	223.5	195.8	156.9	173.2	208.4	300.0	415.5	371.6
82.5°	111.7	119.3	159.4	129.3	116.8	91.6	102.9	123.0	156.9	229.7	145.6
85°	8.8	8.8	28.9	32.6	40.2	32.6	41.4	50.2	71.6	91.6	49.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.3	11.3	21.3	13.8
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°	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7	4377.7
2.5°	4385.2	4321.2	4244.6	4181.8	4085.2	4033.7	3968.4	3888.1	3855.4	3840.4	3831.6
5°	4394.0	4281.0	4117.8	3967.2	3800.2	3668.4	3521.5	3368.3	3280.4	3259.1	3244.0
7.5°	4426.7	4268.5	4008.6	3760.0	3449.9	3162.4	2882.5	2605.0	2463.2	2409.2	2404.2
10°	4471.9	4263.4	3898.1	3485.1	2961.6	2507.1	2179.4	1962.2	1870.6	1840.5	1830.4
12.5°	4528.3	4259.7	3752.5	3103.4	2397.9	1968.5	1781.5	1746.3	1758.9	1756.4	1756.4
15°	4599.9	4264.7	3576.7	2671.6	1939.6	1708.6	1712.4	1753.8	1792.8	1799.0	1799.0
17.5°	4677.7	4259.7	3321.9	2238.4	1664.7	1647.1	1704.9	1762.6	1797.8	1802.8	1802.8
20°	4761.9	4235.8	3000.5	1830.4	1544.2	1608.2	1671.0	1716.2	1737.5	1742.5	1742.5
22.5°	4812.1	4168.0	2651.5	1549.2	1467.6	1546.7	1588.1	1634.6	1637.1	1596.9	1595.7
25°	4804.5	4041.2	2253.5	1368.4	1386.0	1455.0	1507.8	1475.1	1435.0	1412.4	1408.6
27.5°	4756.8	3850.4	1848.0	1231.6	1289.3	1367.2	1350.8	1323.2	1313.2	1288.1	1285.6
30°	4696.6	3615.6	1483.9	1124.9	1188.9	1260.5	1235.3	1232.8	1222.8	1195.2	1195.2
32.5°	4638.8	3373.3	1209.0	1045.8	1124.9	1129.9	1165.0	1167.6	1162.5	1114.8	1109.8
35°	4622.5	3131.0	1023.2	983.0	1062.1	1059.6	1109.8	1108.5	1021.9	955.4	954.1
37.5°	4671.5	2885.0	912.7	931.5	975.5	1008.1	1048.3	975.5	946.6	906.4	903.9
40°	4775.7	2657.8	856.2	901.4	920.2	967.9	905.2	910.2	902.7	872.5	868.8
42.5°	4913.8	2464.4	824.8	891.4	888.8	901.4	832.4	852.4	863.7	841.1	837.4
45°	5046.8	2296.2	808.5	853.7	866.2	793.4	779.6	798.5	816.0	807.2	803.5
47.5°	5144.8	2150.6	799.7	802.2	837.4	757.0	734.4	743.2	764.6	768.3	767.1
50°	5174.9	2026.3	789.7	759.5	752.0	720.6	703.0	700.5	725.6	743.2	745.7
52.5°	5117.1	1915.8	763.3	721.9	685.5	690.5	684.2	671.7	696.8	720.6	723.1
55°	5031.8	1853.0	721.9	685.5	642.8	662.9	665.4	654.1	670.4	686.7	686.7
57.5°	5038.1	1889.4	681.7	651.6	605.1	631.5	645.3	640.3	640.3	652.8	654.1
60°	5079.5	1942.2	655.3	608.9	567.5	595.1	626.5	621.4	610.1	626.5	626.5
62.5°	4960.2	1871.9	637.8	567.5	527.3	559.9	597.6	595.1	582.5	608.9	611.4
65°	4608.7	1683.5	617.7	516.0	487.1	524.8	557.4	566.2	554.9	590.1	596.3
67.5°	3863.0	1416.1	578.8	467.0	446.9	482.1	513.5	526.0	517.2	558.7	563.7
70°	2880.0	1146.2	517.2	413.0	398.0	429.4	458.2	463.3	464.5	513.5	518.5
72.5°	1836.7	891.4	435.6	352.8	341.5	365.3	386.7	406.8	415.5	462.0	460.7
75°	1024.4	662.9	350.3	298.8	278.7	297.5	322.6	346.5	371.6	439.4	446.9
77.5°	590.1	465.8	277.5	239.8	215.9	236.0	257.4	291.3	366.6	425.6	418.1
80°	332.7	302.6	209.7	175.8	160.7	175.8	192.1	256.1	288.7	313.9	317.6
82.5°	155.7	169.5	143.1	108.0	108.0	118.0	133.1	198.4	218.4	178.3	155.7
85°	56.5	76.6	70.3	55.2	49.0	47.7	82.9	113.0	70.3	62.8	54.0
87.5°	15.1	21.3	20.1	13.8	7.5	6.3	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)