

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: P639675

Luminaire Tested: GWS-SA5C-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639675
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-SA5C-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: 23916.3 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

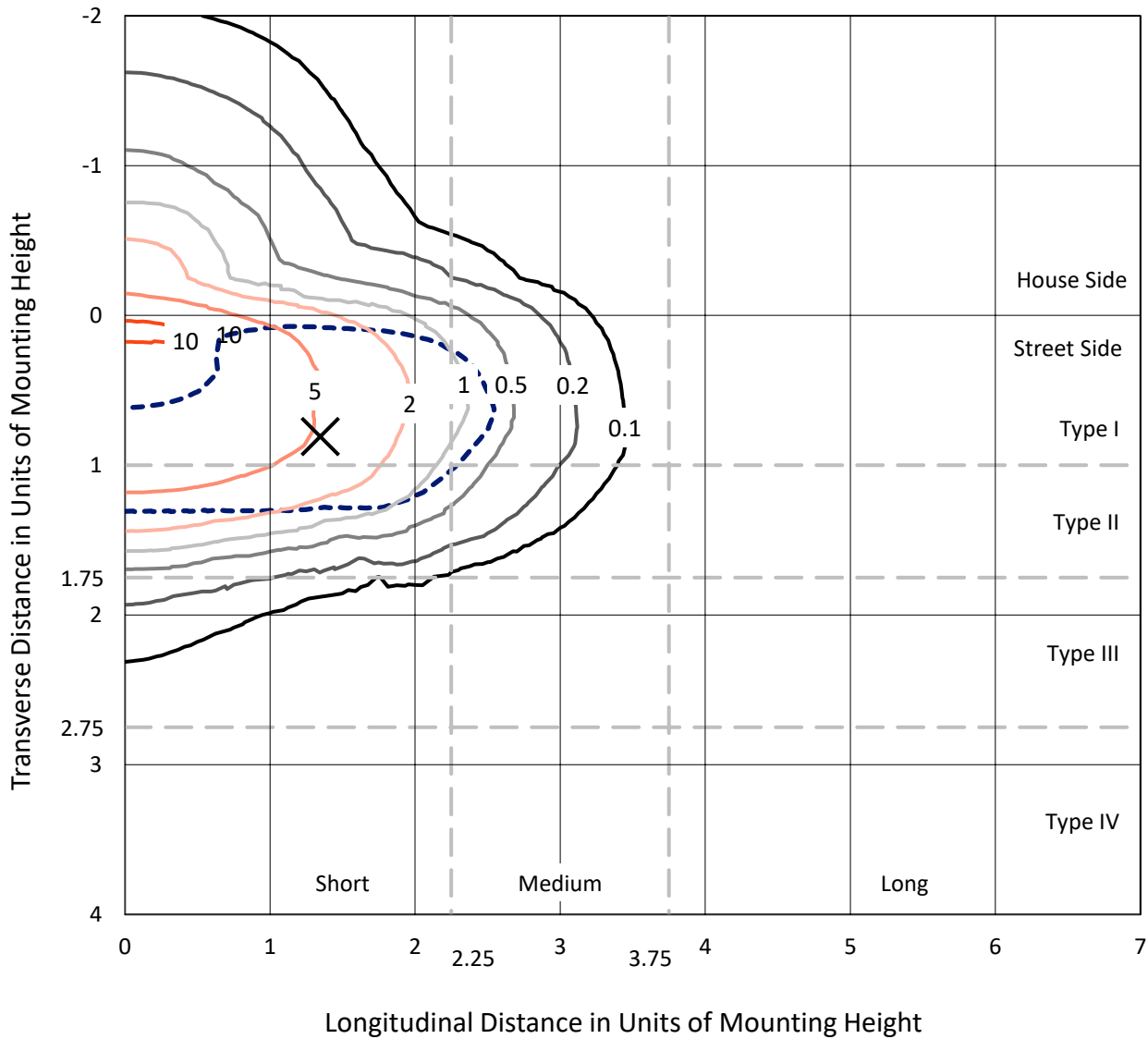
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

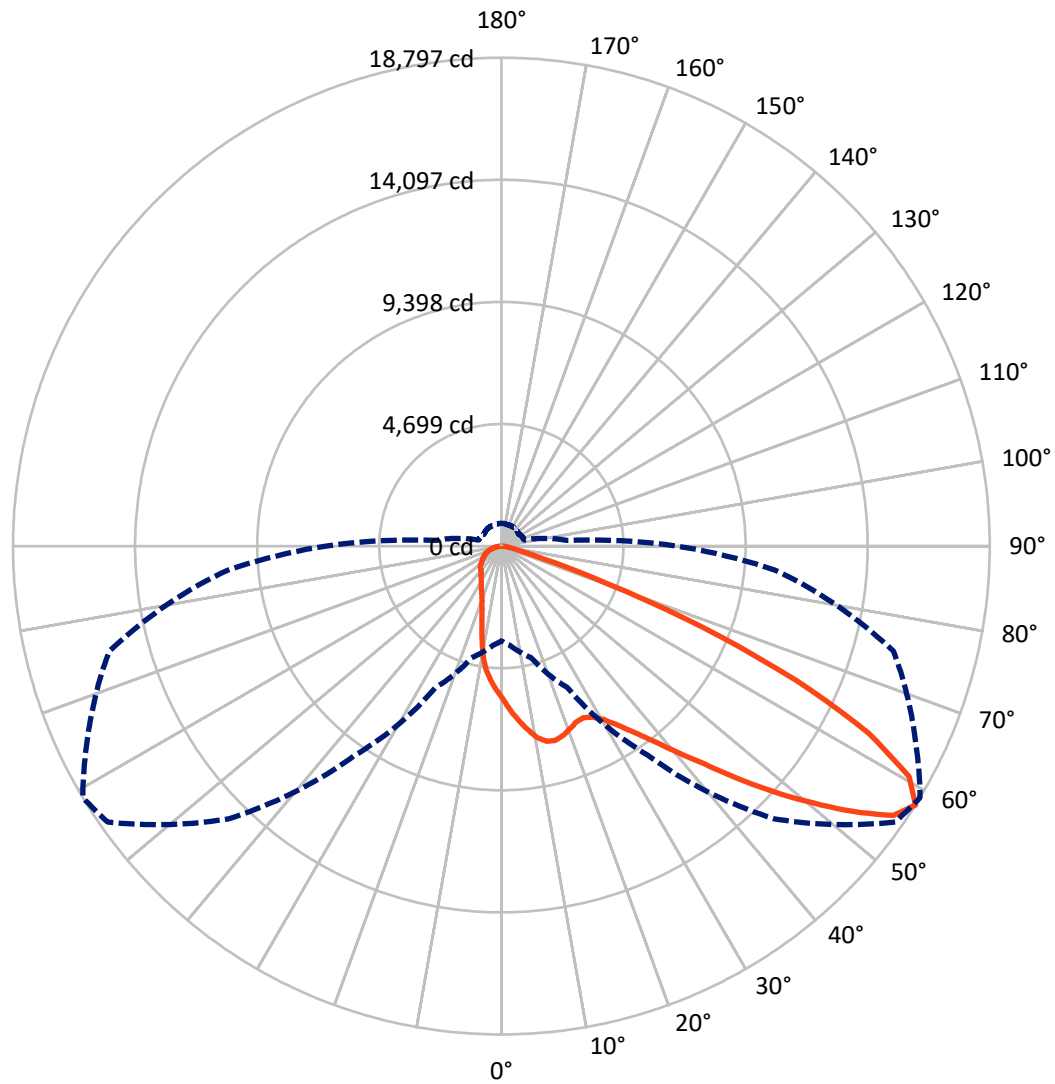
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3711.7	0.0	3711.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20204.6	0.0	20204.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	23916.3	0.0	23916.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.1	2.3
10°-20°	1381.4	5.8
20°-30°	2239.2	9.4
30°-40°	3602.1	15.1
40°-50°	5593.6	23.4
50°-60°	6025.1	25.2
60°-70°	3496.7	14.6
70°-80°	912.8	3.8
80°-90°	120.3	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°	23916.3	100.0
0°-180°	23916.3	100.0

Coefficient of Utilization



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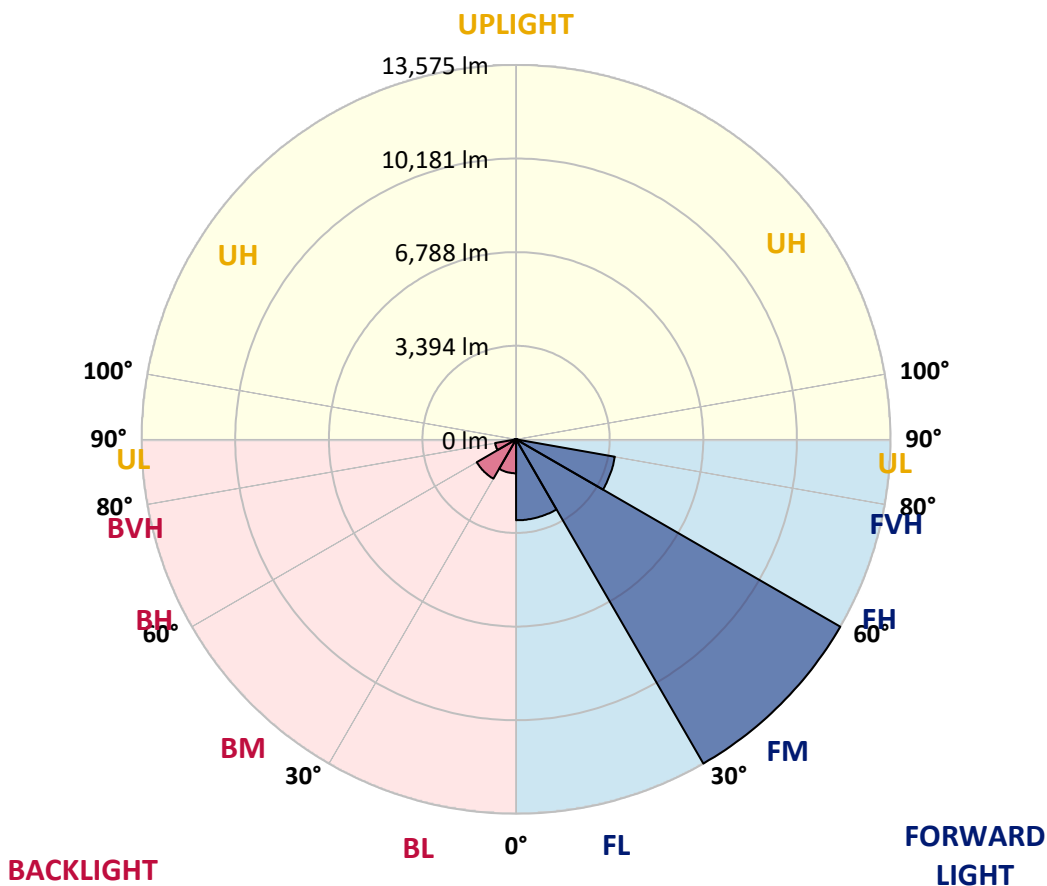
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.3	12.3			
FM (30°-60°)	13575.2	56.8			
FH (60°-80°)	3637.6	15.2			G2/5000
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	1231.4	5.1	B3/2500		
BM (30°-60°)	1645.6	6.9	B2/2500		
BH (60°-80°)	772.0	3.2	B2/1000		G2/1000
BVH (80°-90°)	62.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0
2.5°	6658.9	6603.4	6642.1	6573.1	6544.4	6468.7	6371.0	6305.4	6204.3	6073.0	5958.5
5°	7320.6	7281.9	7290.3	7216.2	7150.6	7024.3	6823.9	6712.8	6541.1	6276.7	6030.9
7.5°	7300.4	7345.9	7371.1	7435.1	7453.6	7441.8	7261.7	7106.8	6918.2	6520.9	6150.5
10°	6544.4	6630.3	6707.8	6926.6	7192.7	7529.4	7571.5	7478.9	7288.6	6832.4	6293.6
12.5°	5721.1	5786.8	5855.8	6118.5	6525.9	7199.4	7655.7	7712.9	7637.1	7140.5	6455.2
15°	5317.0	5347.4	5413.0	5586.4	5911.4	6658.9	7509.2	7760.1	7896.4	7467.1	6637.0
17.5°	5300.2	5313.7	5345.7	5438.3	5663.9	6241.4	7244.9	7665.8	8100.2	7812.3	6849.2
20°	5648.7	5613.4	5593.2	5591.5	5702.6	6101.6	6988.9	7514.2	8196.1	8165.8	7076.5
22.5°	6131.9	6143.7	6100.0	5992.2	5978.7	6201.0	6861.0	7361.0	8224.8	8479.0	7286.9
25°	6817.2	6876.1	6746.5	6541.1	6440.1	6488.9	6940.1	7313.9	8221.4	8740.0	7418.3
27.5°	7616.9	7662.4	7531.1	7261.7	7052.9	6935.1	7175.8	7453.6	8250.0	8965.6	7497.4
30°	8527.8	8543.0	8362.8	8080.0	7775.2	7522.7	7568.1	7741.5	8396.5	9261.9	7590.0
32.5°	9640.7	9704.7	9431.9	8984.1	8558.1	8234.9	8095.1	8206.2	8713.0	9612.1	7733.1
35°	11053.3	11075.2	10728.4	10086.9	9484.1	9036.3	8743.3	8802.3	9194.5	10102.0	7948.6
37.5°	12385.1	12407.0	12038.3	11442.3	10580.2	9967.4	9543.1	9516.1	9810.8	10794.0	8300.5
40°	13230.3	13292.6	13127.6	12753.8	11930.5	11103.8	10528.0	10435.4	10618.9	11640.9	8790.5
42.5°	13684.9	13711.8	13708.5	13757.3	13267.4	12445.7	11639.2	11454.0	11576.9	12555.2	9285.5
45°	13688.3	13755.6	13935.8	14405.5	14427.4	13915.6	13043.4	12753.8	12641.0	13476.1	9802.4
47.5°	13075.4	13147.8	13642.8	14567.2	15249.0	15365.2	14725.4	14144.6	13669.8	14269.1	10226.6
50°	11220.0	11401.8	12344.7	13979.6	15410.7	16527.0	16330.0	15542.0	14584.0	14882.0	10492.7
52.5°	9608.7	9602.0	10182.9	12319.4	14735.5	17038.8	17882.3	16979.9	15488.1	15270.9	10560.0
55°	7036.1	7074.8	7669.1	9421.8	12934.0	16543.8	18735.9	18303.2	16525.3	15478.0	10533.1
57.5°	3648.5	3840.5	4450.0	6012.4	9827.6	14839.9	18508.6	18796.5	17579.2	15624.5	10568.4
60°	1843.6	1806.6	2025.5	2870.7	5694.2	11590.4	17107.8	18025.4	17769.5	15739.0	10590.3
62.5°	1230.8	1220.7	1160.1	1330.1	2326.8	6864.3	14584.0	15870.3	16447.8	15469.6	10310.8
65°	1065.8	1045.6	934.4	927.7	1129.7	2847.1	10689.7	12476.0	13594.0	14272.5	9642.4
67.5°	959.7	929.4	816.6	761.0	811.5	1251.0	6024.2	8367.9	10038.1	12070.3	8177.6
70°	857.0	841.8	729.0	648.2	643.2	762.7	2219.1	4318.6	6142.0	8234.9	5978.7
72.5°	767.8	740.8	644.8	567.4	528.7	540.5	963.1	1663.5	3178.8	5136.9	3576.1
75°	665.1	644.8	560.7	483.2	436.1	395.7	587.6	769.4	1449.6	2441.3	1688.7
77.5°	513.5	500.1	442.8	383.9	356.9	294.6	356.9	484.9	670.1	1028.7	878.9
80°	298.0	306.4	330.0	299.7	262.7	210.5	232.3	279.5	402.4	557.3	498.4
82.5°	149.8	159.9	213.8	173.4	156.6	122.9	138.1	165.0	210.5	308.1	195.3
85°	11.8	11.8	38.7	43.8	53.9	43.8	55.6	67.3	96.0	122.9	65.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	8.4	15.2	28.6	18.5
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°	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0	5871.0
2.5°	5881.1	5795.2	5692.5	5608.3	5478.7	5409.6	5322.1	5214.3	5170.6	5150.4	5138.6
5°	5892.9	5741.3	5522.5	5320.4	5096.5	4919.7	4722.7	4517.3	4399.4	4370.8	4350.6
7.5°	5936.6	5724.5	5376.0	5042.6	4626.7	4241.2	3865.7	3493.6	3303.4	3231.0	3224.2
10°	5997.2	5717.8	5227.8	4673.9	3971.8	3362.3	2922.9	2631.6	2508.7	2468.3	2454.8
12.5°	6073.0	5712.7	5032.5	4162.0	3215.8	2640.0	2389.1	2342.0	2358.8	2355.5	2355.5
15°	6169.0	5719.4	4796.8	3582.9	2601.3	2291.5	2296.5	2352.1	2404.3	2412.7	2412.7
17.5°	6273.4	5712.7	4455.0	3002.0	2232.6	2209.0	2286.4	2363.9	2411.0	2417.8	2417.8
20°	6386.2	5680.7	4024.0	2454.8	2070.9	2156.8	2241.0	2301.6	2330.2	2336.9	2336.9
22.5°	6453.5	5589.8	3555.9	2077.7	1968.2	2074.3	2129.8	2192.1	2195.5	2141.6	2140.0
25°	6443.4	5419.7	3022.2	1835.2	1858.8	1951.4	2022.1	1978.3	1924.4	1894.1	1889.1
27.5°	6379.4	5163.8	2478.4	1651.7	1729.1	1833.5	1811.6	1774.6	1761.1	1727.5	1724.1
30°	6298.6	4849.0	1990.1	1508.6	1594.4	1690.4	1656.7	1653.4	1639.9	1602.9	1602.9
32.5°	6221.2	4524.0	1621.4	1402.5	1508.6	1515.3	1562.5	1565.8	1559.1	1495.1	1488.4
35°	6199.3	4199.1	1372.2	1318.3	1424.4	1421.0	1488.4	1486.7	1370.5	1281.3	1279.6
37.5°	6265.0	3869.1	1224.0	1249.3	1308.2	1352.0	1405.9	1308.2	1269.5	1215.6	1212.2
40°	6404.7	3564.3	1148.3	1208.9	1234.1	1298.1	1213.9	1220.7	1210.6	1170.2	1165.1
42.5°	6589.9	3305.1	1106.2	1195.4	1192.0	1208.9	1116.3	1143.2	1158.4	1128.1	1123.0
45°	6768.4	3079.4	1084.3	1144.9	1161.7	1064.1	1045.6	1070.8	1094.4	1082.6	1077.6
47.5°	6899.7	2884.1	1072.5	1075.9	1123.0	1015.3	984.9	996.7	1025.4	1030.4	1028.7
50°	6940.1	2717.5	1059.0	1018.6	1008.5	966.4	942.9	939.5	973.2	996.7	1000.1
52.5°	6862.7	2569.3	1023.7	968.1	919.3	926.0	917.6	900.8	934.4	966.4	969.8
55°	6748.2	2485.1	968.1	919.3	862.0	889.0	892.3	877.2	899.1	921.0	921.0
57.5°	6756.6	2533.9	914.2	873.8	811.5	846.9	865.4	858.7	858.7	875.5	877.2
60°	6812.1	2604.6	878.9	816.6	761.0	798.1	840.2	833.4	818.3	840.2	840.2
62.5°	6652.2	2510.4	855.3	761.0	707.1	750.9	801.4	798.1	781.2	816.6	819.9
65°	6180.8	2257.8	828.4	692.0	653.3	703.8	747.6	759.3	744.2	791.3	799.7
67.5°	5180.7	1899.2	776.2	626.3	599.4	646.5	688.6	705.5	693.7	749.2	756.0
70°	3862.3	1537.2	693.7	553.9	533.7	575.8	614.5	621.3	623.0	688.6	695.4
72.5°	2463.2	1195.4	584.2	473.1	458.0	489.9	518.6	545.5	557.3	619.6	617.9
75°	1373.9	889.0	469.7	400.7	373.8	399.0	432.7	464.7	498.4	589.3	599.4
77.5°	791.3	624.6	372.1	321.6	289.6	316.5	345.2	390.6	491.6	570.8	560.7
80°	446.2	405.8	281.2	235.7	215.5	235.7	257.6	343.5	387.2	420.9	426.0
82.5°	208.8	227.3	191.9	144.8	144.8	158.3	178.5	266.0	293.0	239.1	208.8
85°	75.8	102.7	94.3	74.1	65.7	64.0	111.1	151.5	94.3	84.2	72.4
87.5°	20.2	28.6	26.9	18.5	10.1	8.4	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)