

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: P641520

Luminaire Tested: GWS-SA6B-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15902.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - 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

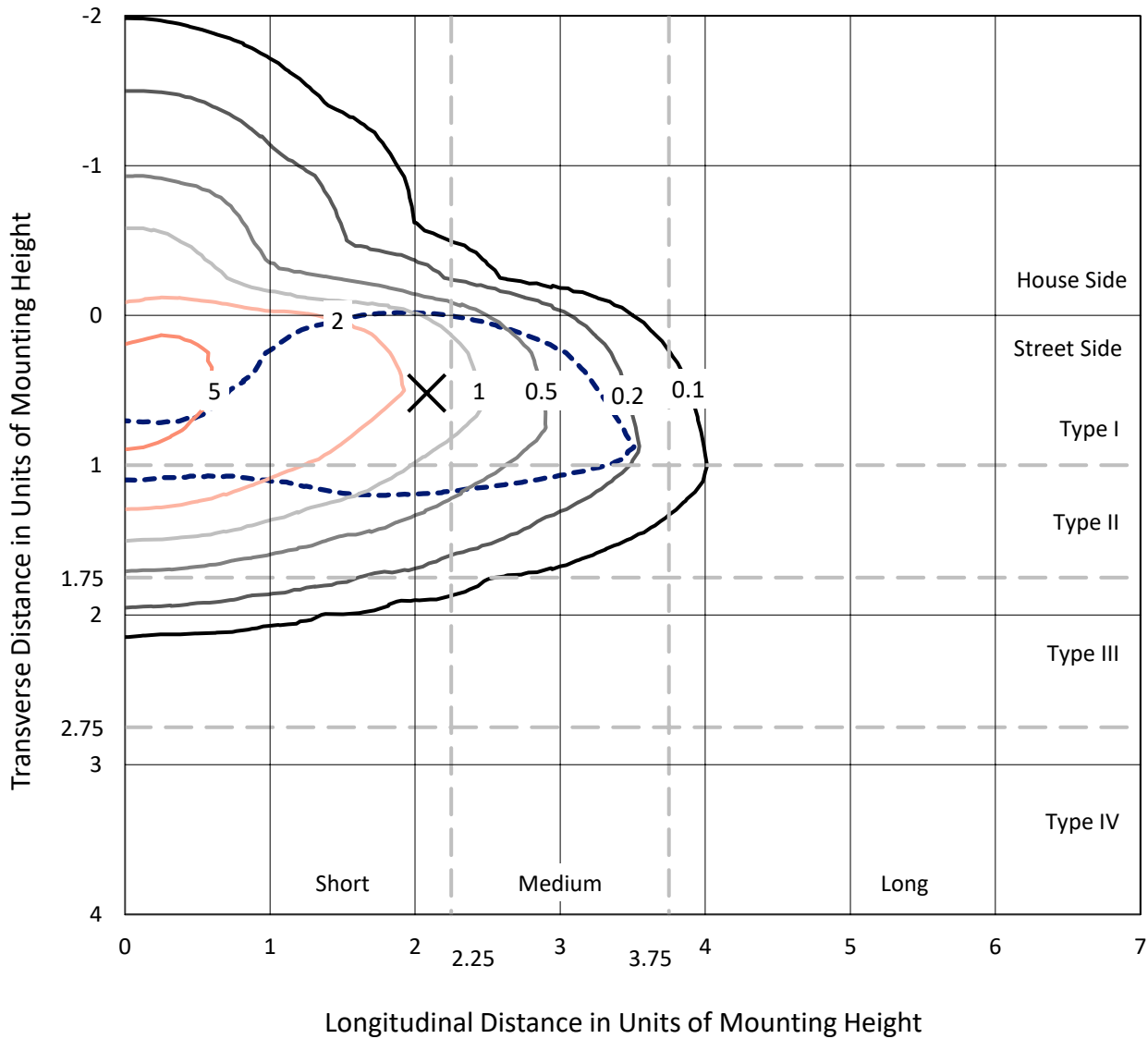


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Iso-Footcandle Lines of Horizontal Illumination

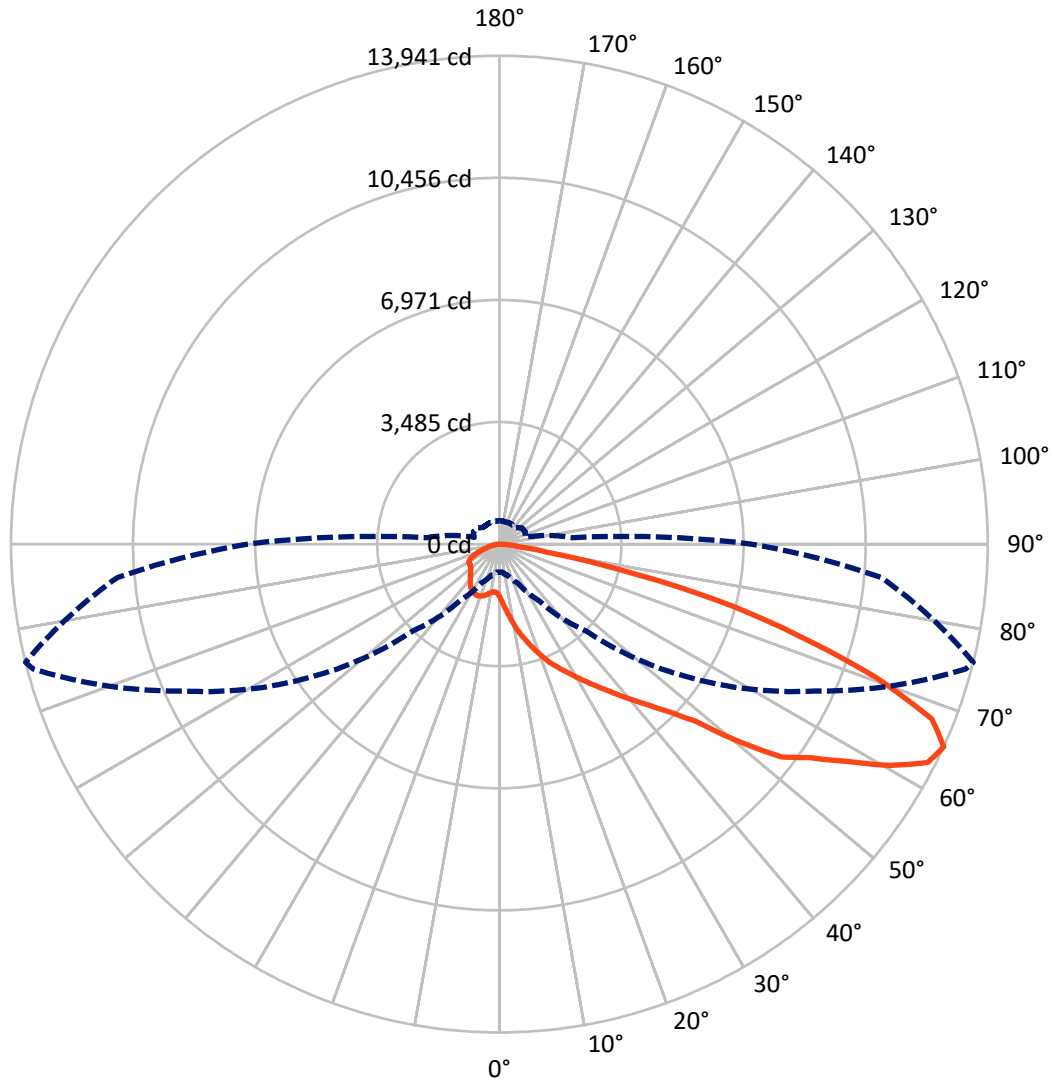
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.1	0.0	2658.1
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	13244.4	0.0	13244.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	15902.5	0.0	15902.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.9	1.1
10°-20°	681.5	4.3
20°-30°	1328.1	8.4
30°-40°	2221.1	14.0
40°-50°	3180.2	20.0
50°-60°	3764.9	23.7
60°-70°	3130.5	19.7
70°-80°	1281.1	8.1
80°-90°	136.4	0.9
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°	15902.5	100.0
0°-180°	15902.5	100.0

Coefficient of Utilization



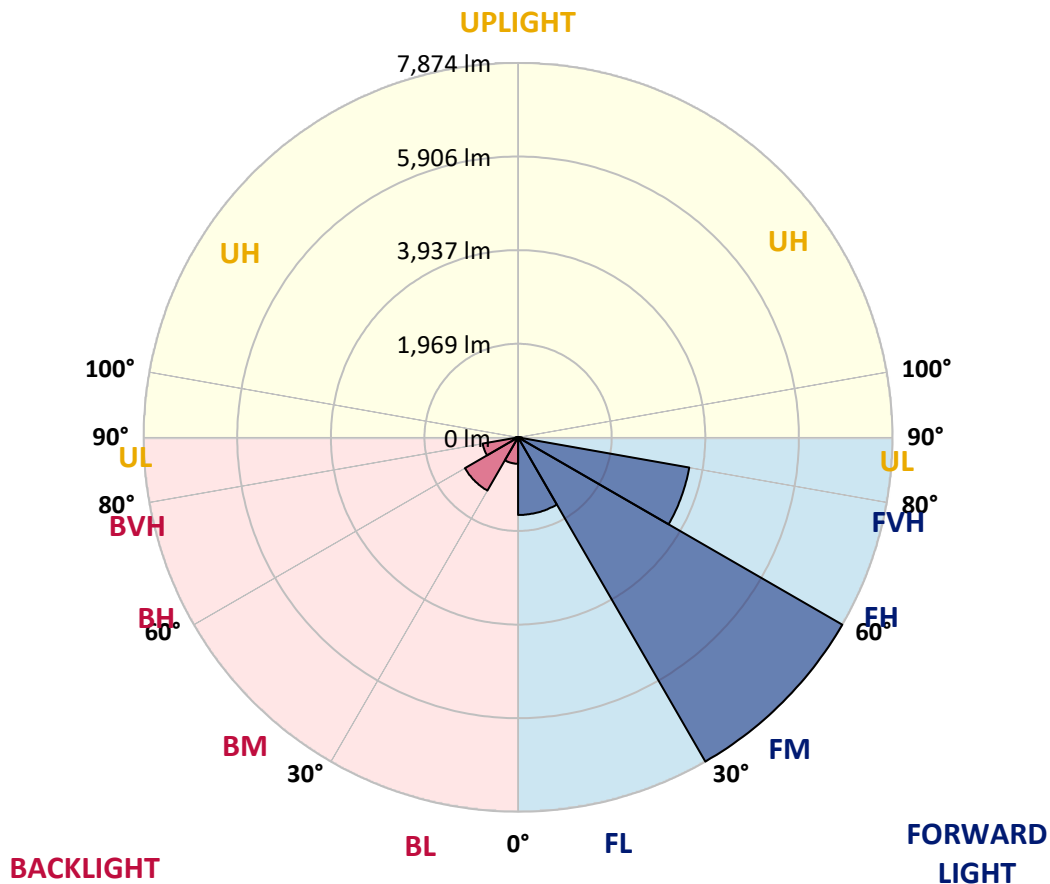
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1632.3	10.3			
FM (30°-60°)	7874.3	49.5			
FH (60°-80°)	3656.4	23.0			G2/5000
FVH (80°-90°)	81.3	0.5			G1/100
BL (0°-30°)	556.1	3.5	B2/1000		
BM (30°-60°)	1291.8	8.1	B2/2500		
BH (60°-80°)	755.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	55.0	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°	65°	75°	76°	85°
0°	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9
2.5°	2110.7	2118.6	2092.8	2083.9	2023.5	1941.9	1873.7	1770.9	1675.8	1661.3	1576.3
5°	2680.9	2647.4	2618.3	2599.3	2515.4	2422.6	2278.4	2085.0	1882.7	1858.1	1674.7
7.5°	3019.6	3014.1	2978.3	2967.1	2902.3	2809.5	2660.8	2420.4	2126.4	2086.1	1807.8
10°	3291.3	3288.0	3270.1	3280.1	3220.9	3130.3	2986.1	2737.9	2393.6	2353.3	1956.5
12.5°	3528.3	3533.9	3530.6	3567.4	3537.3	3466.8	3317.0	3044.2	2660.8	2617.2	2137.6
15°	3701.6	3706.1	3722.8	3803.3	3820.1	3805.6	3653.5	3345.0	2924.6	2862.0	2324.3
17.5°	3750.8	3759.7	3800.0	3929.7	4020.2	4080.6	3967.7	3651.3	3184.0	3115.8	2514.3
20°	3816.8	3826.8	3867.1	4002.3	4135.4	4272.9	4252.8	3962.1	3445.6	3389.7	2706.6
22.5°	4122.0	4114.1	4096.2	4161.1	4256.1	4427.2	4477.5	4260.6	3716.1	3662.5	2919.0
25°	4710.0	4695.5	4581.4	4522.2	4490.9	4594.9	4684.3	4532.3	3980.0	3899.5	3116.9
27.5°	5358.4	5350.6	5205.3	5064.4	4872.1	4827.4	4879.9	4769.3	4236.0	4154.4	3289.1
30°	5972.2	5948.7	5796.7	5620.0	5362.9	5170.6	5093.5	5001.8	4516.6	4431.6	3490.3
32.5°	6521.1	6490.9	6312.1	6116.4	5847.0	5620.0	5389.7	5248.9	4834.1	4735.7	3696.0
35°	6971.7	6941.5	6758.1	6550.2	6253.9	6086.2	5771.0	5517.2	5157.2	5057.7	3938.6
37.5°	7320.5	7292.5	7101.4	6896.8	6638.5	6505.5	6231.6	5819.0	5529.5	5425.5	4195.7
40°	7516.1	7496.0	7342.8	7180.7	6963.8	6848.7	6725.7	6200.3	5946.5	5842.5	4498.7
42.5°	7575.4	7562.0	7454.6	7370.8	7224.3	7137.1	7207.6	6648.6	6391.4	6300.9	4839.7
45°	7426.7	7426.7	7395.4	7437.9	7444.6	7443.5	7690.5	7155.0	6938.1	6838.6	5320.4
47.5°	7046.6	7071.2	7117.0	7326.1	7546.3	7730.8	8255.1	7830.3	7641.3	7559.7	6001.3
50°	6351.2	6418.3	6574.8	6982.9	7451.3	7920.8	8789.5	8828.6	9008.6	8864.4	7003.0
52.5°	5332.7	5322.7	5721.8	6303.1	7017.5	7928.7	9083.5	9709.6	10193.7	10094.2	7747.5
55°	4238.2	4221.5	4593.7	5395.3	6352.3	7629.0	9260.2	10113.2	10851.0	10761.6	8417.2
57.5°	3245.5	3224.2	3555.2	4278.5	5413.2	6992.9	9226.6	10593.9	11755.5	11709.6	9327.2
60°	2233.7	2208.0	2517.7	3150.4	4302.0	6020.3	8855.5	10841.0	12814.2	12829.8	10301.0
62.5°	1341.6	1327.0	1551.7	2042.5	3094.5	4815.1	7986.8	10691.2	13657.1	13727.6	10927.1
65°	809.4	799.3	931.3	1218.6	1963.2	3513.8	6647.5	9925.4	13779.0	13941.1	10941.6
67.5°	589.2	590.3	628.3	742.3	1144.8	2269.5	4988.4	8552.5	13144.0	13311.7	10251.8
70°	512.0	514.3	534.4	560.1	692.0	1299.1	3243.2	6751.4	11266.9	11396.6	8598.3
72.5°	455.0	455.0	468.4	481.8	541.1	791.5	1737.3	4719.0	8892.3	8927.0	6562.5
75°	400.2	396.9	403.6	410.3	469.5	553.4	845.2	3288.0	6568.1	6487.6	4241.6
77.5°	318.6	315.3	316.4	323.1	376.8	395.8	428.2	2053.7	3701.6	3493.7	1873.7
80°	226.9	224.7	237.0	253.8	278.4	242.6	268.3	993.9	1467.9	1366.2	726.7
82.5°	135.3	139.7	158.8	172.2	192.3	152.0	173.3	332.0	519.9	506.4	295.1
85°	19.0	20.1	57.0	66.0	82.7	59.3	91.7	149.8	207.9	222.5	104.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	26.8	59.3	60.4	25.7
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°	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9	1505.9
2.5°	1532.7	1480.2	1405.3	1342.7	1290.1	1247.7	1211.9	1185.1	1177.2	1166.0	1166.0
5°	1588.6	1493.6	1359.5	1264.4	1209.6	1177.2	1154.9	1143.7	1138.1	1131.4	1128.0
7.5°	1665.8	1532.7	1351.6	1255.5	1213.0	1192.9	1178.3	1171.6	1167.2	1160.5	1160.5
10°	1772.0	1590.9	1376.2	1286.8	1253.2	1233.1	1216.4	1205.2	1195.1	1185.1	1182.8
12.5°	1887.1	1666.9	1420.9	1329.3	1293.5	1268.9	1245.4	1228.7	1216.4	1204.1	1200.7
15°	2014.6	1745.2	1469.0	1370.6	1325.9	1292.4	1264.4	1238.7	1221.9	1204.1	1201.8
17.5°	2139.8	1824.5	1509.3	1398.6	1341.6	1300.2	1260.0	1226.4	1205.2	1185.1	1179.5
20°	2289.6	1903.9	1537.2	1406.4	1338.2	1283.4	1235.4	1192.9	1169.4	1145.9	1142.6
22.5°	2427.1	1977.7	1550.6	1395.2	1312.5	1247.7	1191.8	1145.9	1120.2	1096.7	1092.3
25°	2560.2	2042.5	1545.0	1368.4	1273.4	1198.5	1140.3	1094.5	1069.9	1045.3	1038.6
27.5°	2688.7	2086.1	1522.7	1327.0	1224.2	1143.7	1087.8	1046.4	1025.2	1003.9	995.0
30°	2815.1	2126.4	1488.0	1273.4	1161.6	1086.7	1040.8	1011.8	990.5	968.2	961.5
32.5°	2942.5	2155.4	1435.5	1210.8	1097.8	1036.4	1008.4	987.2	964.8	942.5	935.7
35°	3071.1	2167.7	1371.8	1139.2	1044.2	1003.9	993.9	969.3	939.1	912.3	903.3
37.5°	3224.2	2178.9	1292.4	1068.8	997.2	988.3	986.1	949.2	913.4	876.5	866.4
40°	3408.7	2193.5	1210.8	1005.1	959.2	982.7	973.8	923.4	851.9	816.1	804.9
42.5°	3634.5	2220.3	1125.8	946.9	931.3	961.5	951.4	860.8	812.8	792.6	787.1
45°	3966.6	2318.7	1040.8	901.1	910.0	931.3	915.6	823.9	804.9	791.5	784.8
47.5°	4558.0	2469.6	967.0	866.4	893.3	904.4	844.1	813.9	799.3	781.5	773.6
50°	5172.9	2535.6	907.8	845.2	874.3	879.8	804.9	800.5	790.4	771.4	763.6
52.5°	5588.7	2526.6	872.0	837.4	858.6	837.4	787.1	785.9	779.2	756.9	747.9
55°	6058.3	2542.3	856.4	839.6	851.9	765.8	764.7	768.0	764.7	740.1	735.6
57.5°	6692.2	2590.3	848.5	847.4	847.4	731.2	743.5	747.9	741.2	730.0	726.7
60°	7301.5	2593.7	834.0	856.4	844.1	709.9	718.9	723.3	715.5	713.3	712.1
62.5°	7530.7	2432.7	801.6	849.7	830.7	686.4	693.1	695.4	687.6	693.1	692.0
65°	7189.7	2090.6	747.9	817.2	789.3	665.2	660.7	666.3	652.9	667.4	668.5
67.5°	6383.6	1661.3	666.3	755.7	731.2	641.7	632.8	632.8	610.4	632.8	631.7
70°	5147.1	1173.9	546.7	657.4	667.4	613.8	609.3	583.6	547.8	581.3	578.0
72.5°	3901.7	843.0	430.4	519.9	574.6	574.6	575.8	532.2	490.8	506.4	493.0
75°	2471.8	593.6	344.3	398.0	450.5	504.2	529.9	449.4	412.5	405.8	399.1
77.5°	1113.5	390.2	268.3	305.2	319.7	398.0	484.1	386.8	336.5	322.0	317.5
80°	466.2	242.6	191.2	215.8	196.8	334.3	427.1	300.7	247.1	226.9	212.4
82.5°	204.6	144.2	121.9	116.3	123.0	248.2	318.6	200.1	154.3	209.1	211.3
85°	86.1	76.0	62.6	57.0	50.3	95.0	149.8	78.3	96.1	54.8	44.7
87.5°	20.1	22.4	16.8	11.2	6.7	1.1	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)