

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: P633103

Luminaire Tested: GWS-SA2E-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9459.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

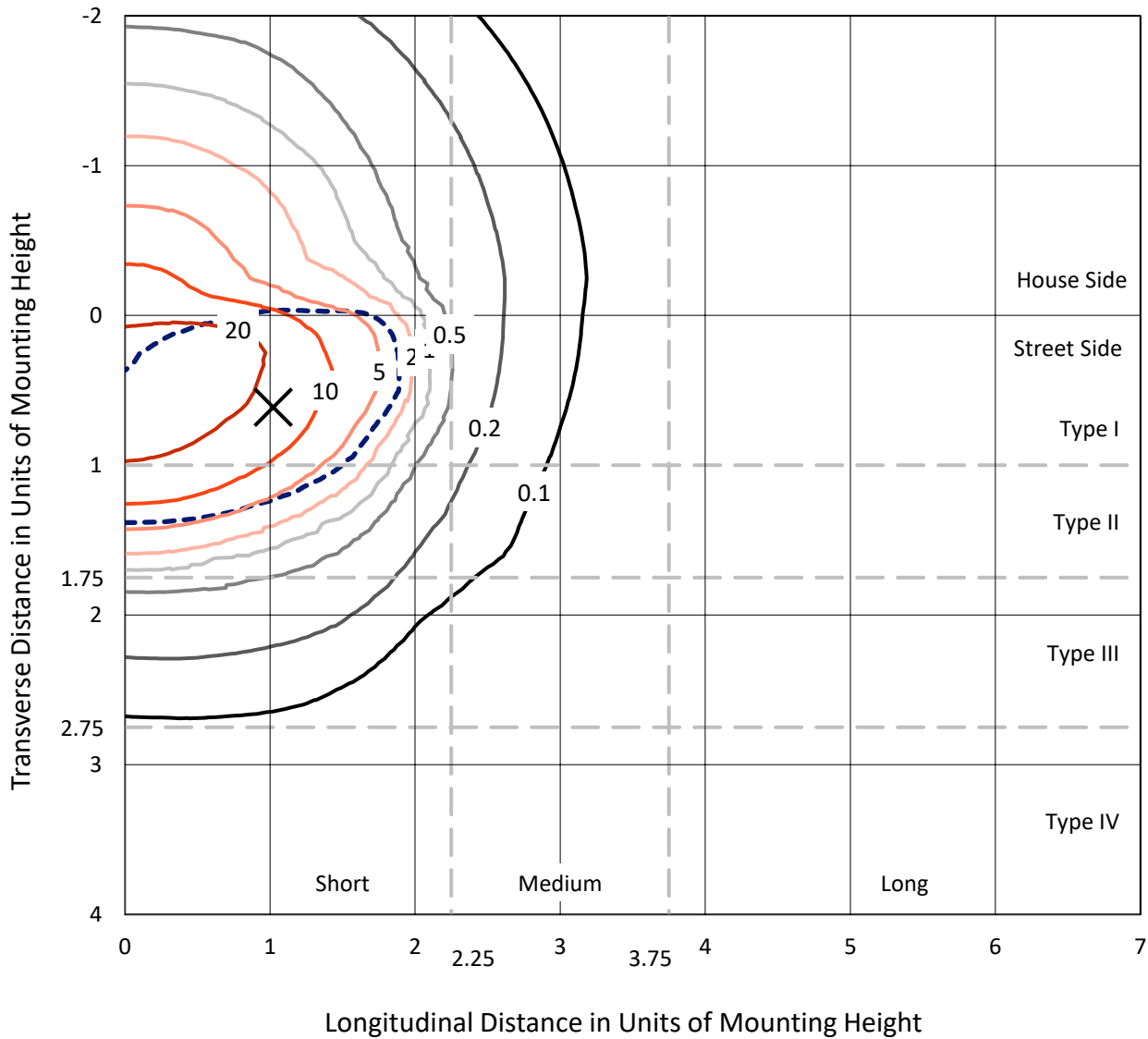
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

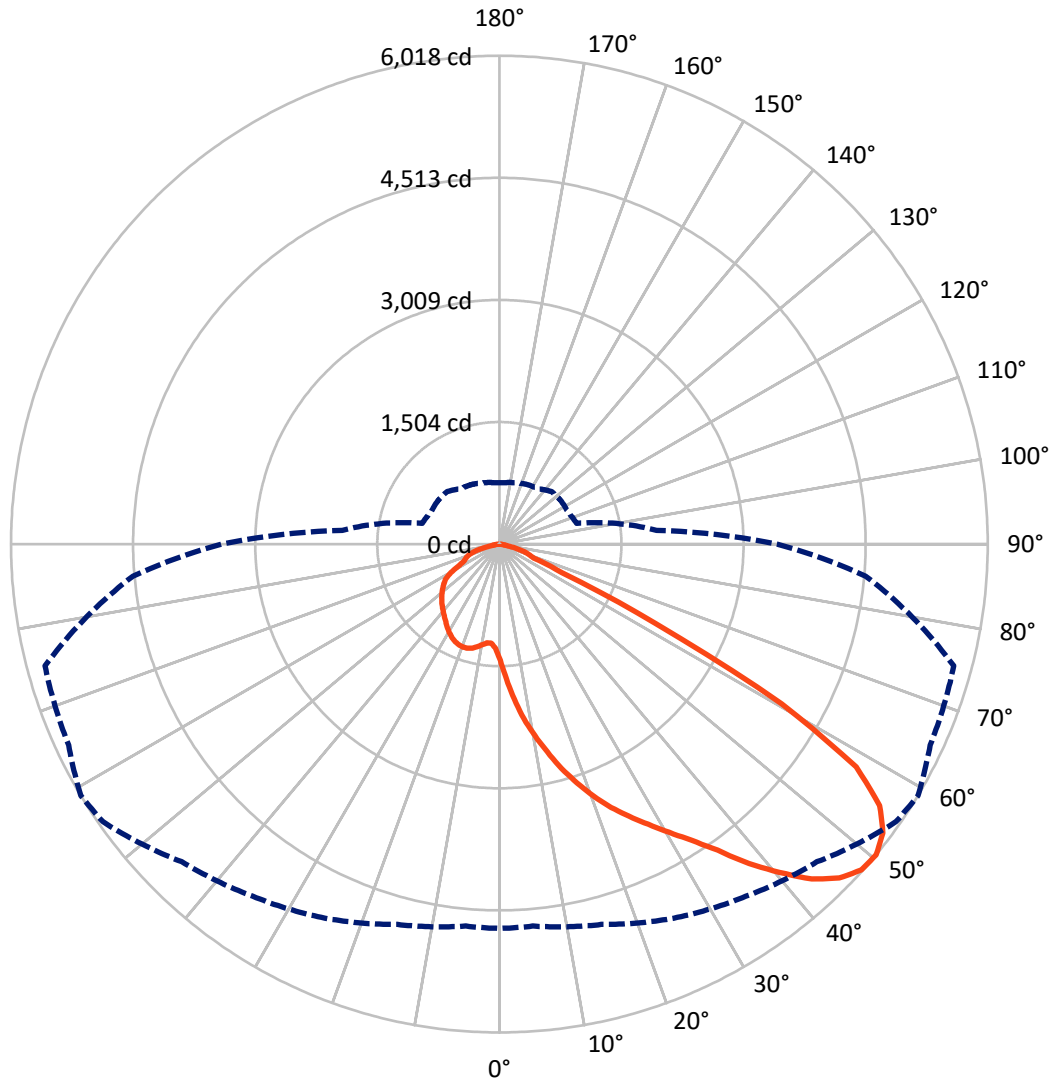
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2175.8	0.0	2175.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7283.3	0.0	7283.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	9459.1	0.0	9459.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.7
10°-20°	583.6	6.2
20°-30°	1105.2	11.7
30°-40°	1832.7	19.4
40°-50°	2503.6	26.5
50°-60°	2272.6	24.0
60°-70°	756.8	8.0
70°-80°	220.7	2.3
80°-90°	23.2	0.2
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°	9459.1	100.0
0°-180°	9459.1	100.0

Coefficient of Utilization



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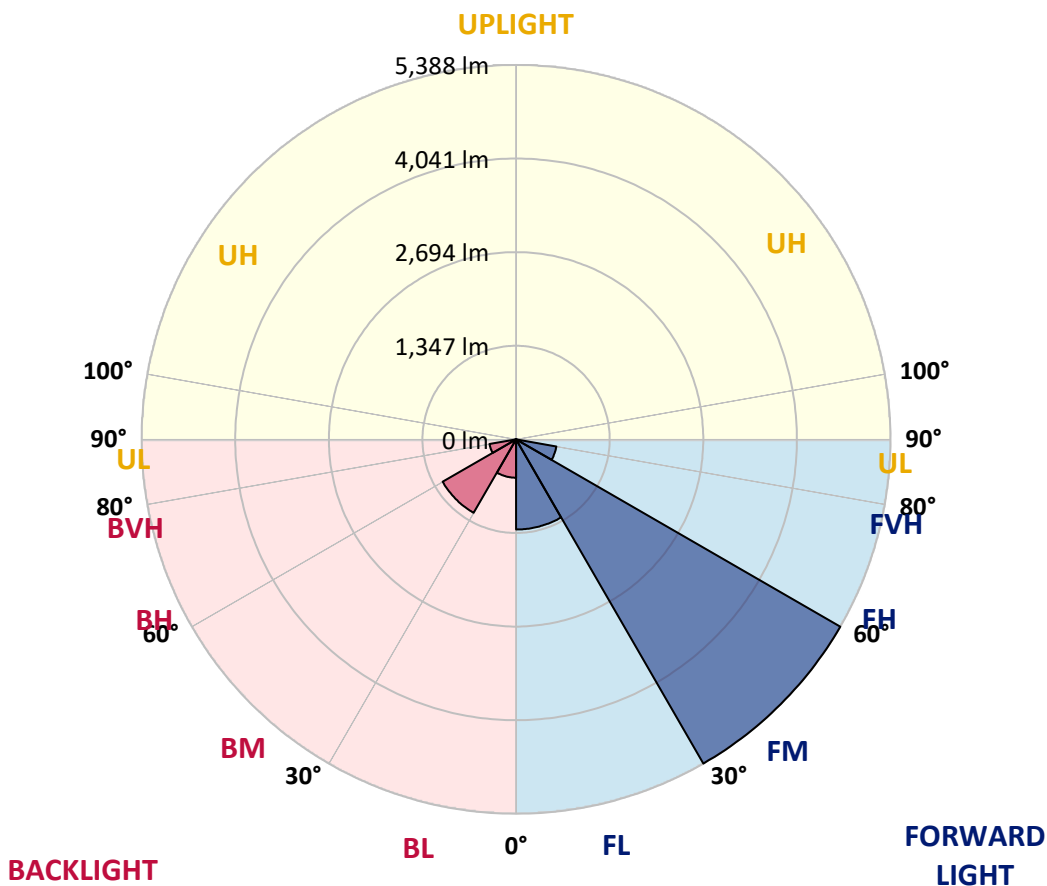
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1297.1	13.7			
FM (30°-60°)	5388.0	57.0			
FH (60°-80°)	589.2	6.2			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	552.5	5.8	B2/1000		
BM (30°-60°)	1220.8	12.9	B2/2500		
BH (60°-80°)	388.4	4.1	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1856.9	1870.8	1849.2	1850.7	1796.8	1772.1	1702.8	1662.0	1635.0	1559.5	1490.9
5°	2231.4	2215.2	2198.2	2188.2	2141.2	2074.9	1988.6	1920.1	1856.9	1709.0	1566.4
7.5°	2461.0	2452.5	2440.9	2434.8	2388.5	2319.2	2232.9	2174.3	2082.6	1882.3	1658.1
10°	2655.9	2645.9	2638.9	2643.6	2605.8	2561.1	2467.1	2400.1	2296.8	2065.7	1769.1
12.5°	2806.9	2812.3	2814.6	2839.3	2823.1	2796.1	2699.0	2628.2	2513.4	2259.1	1899.3
15°	2926.3	2924.8	2951.8	2998.8	3025.0	3008.0	2930.2	2870.9	2730.6	2449.4	2039.5
17.5°	2954.1	2955.6	2998.0	3080.4	3166.0	3207.6	3163.7	3092.8	2954.1	2637.4	2185.1
20°	2976.4	2979.5	3023.4	3117.4	3242.2	3358.6	3365.5	3314.7	3195.2	2840.8	2333.1
22.5°	3117.4	3124.4	3135.9	3195.2	3307.7	3454.9	3535.8	3525.0	3424.8	3054.2	2492.6
25°	3488.0	3467.2	3411.0	3394.0	3437.2	3556.6	3694.5	3715.3	3666.0	3289.2	2664.4
27.5°	3945.7	3923.4	3840.1	3752.3	3659.1	3700.7	3847.9	3910.3	3911.0	3548.1	2837.0
30°	4361.0	4343.3	4275.5	4149.9	3988.9	3928.8	4037.4	4121.4	4171.5	3847.1	3033.4
32.5°	4716.2	4700.0	4608.3	4505.9	4348.7	4227.7	4267.0	4347.9	4465.0	4233.9	3277.7
35°	5015.2	4999.0	4911.1	4807.9	4662.3	4589.8	4576.0	4631.4	4783.2	4637.6	3558.1
37.5°	5257.9	5241.7	5150.0	5052.9	4942.0	4946.6	4967.4	4994.3	5081.4	5069.9	3857.9
40°	5415.0	5398.1	5332.6	5263.3	5193.1	5248.6	5351.9	5319.5	5365.7	5418.9	4133.7
42.5°	5485.2	5463.6	5425.8	5410.4	5388.8	5475.1	5673.9	5641.6	5586.1	5651.6	4338.7
45°	5415.0	5396.5	5395.8	5442.8	5492.9	5603.8	5896.6	5870.4	5730.2	5764.1	4461.2
47.5°	5200.1	5183.9	5227.8	5351.1	5474.4	5636.2	5996.0	6000.6	5832.6	5811.1	4540.5
50°	4735.5	4724.7	4851.8	5085.3	5297.9	5535.2	5964.4	6017.6	5857.3	5796.4	4530.5
52.5°	3790.8	3840.9	4117.5	4507.4	4920.4	5358.0	5847.3	5916.6	5738.6	5700.1	4476.6
55°	2595.0	2618.1	2894.7	3464.1	4119.1	4974.3	5578.4	5685.5	5598.4	5683.9	4532.8
57.5°	1343.7	1362.2	1580.3	2085.7	2793.8	3931.1	4831.8	5183.1	5315.6	5765.6	4707.7
60°	551.7	567.1	657.2	901.5	1409.2	2289.1	3477.2	3998.1	4309.4	5265.6	4180.7
62.5°	400.7	408.4	451.5	537.8	738.1	1121.8	1967.8	2159.7	2378.5	3300.0	2654.4
65°	337.5	346.0	380.6	433.0	538.6	688.1	840.6	845.2	931.5	1344.5	983.9
67.5°	282.8	290.5	321.3	366.0	435.3	488.5	451.5	452.3	450.7	487.7	471.5
70°	220.4	226.5	257.3	305.1	341.3	313.6	352.9	390.6	374.5	389.1	411.4
72.5°	161.0	168.0	194.9	231.1	221.9	223.4	285.9	324.4	315.1	331.3	352.1
75°	116.3	121.0	134.8	115.6	121.7	147.2	201.1	221.9	231.1	245.0	263.5
77.5°	37.8	37.8	42.4	53.2	66.3	81.7	102.5	111.0	124.8	140.2	153.3
80°	19.3	20.0	23.9	29.3	37.0	47.0	60.1	64.0	70.9	79.4	84.8
82.5°	9.2	10.0	11.6	14.6	19.3	24.7	33.1	37.0	41.6	47.0	50.9
85°	2.3	2.3	3.1	4.6	6.2	9.2	12.3	14.6	18.5	22.3	24.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	2.3	3.1	3.9	4.6	6.2
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°	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1	1433.1
2.5°	1460.1	1416.9	1361.5	1314.5	1271.3	1238.2	1209.7	1195.8	1182.7	1173.5	1176.5
5°	1500.2	1426.2	1322.9	1251.3	1207.4	1185.0	1169.6	1161.9	1160.4	1154.2	1151.9
7.5°	1558.7	1453.2	1315.2	1242.8	1213.5	1202.0	1193.5	1188.9	1191.2	1185.0	1182.7
10°	1631.1	1497.8	1334.5	1270.5	1245.1	1236.6	1227.4	1221.2	1218.2	1208.9	1207.4
12.5°	1721.3	1553.3	1369.2	1306.0	1280.6	1265.9	1253.6	1242.8	1235.9	1224.3	1221.2
15°	1818.4	1615.0	1410.0	1340.7	1310.6	1289.0	1269.0	1252.8	1240.5	1225.1	1222.8
17.5°	1923.9	1679.7	1443.9	1364.5	1326.0	1297.5	1268.2	1244.3	1227.4	1207.4	1205.1
20°	2034.1	1745.2	1469.3	1376.1	1326.8	1288.3	1249.0	1217.4	1195.8	1175.8	1174.2
22.5°	2148.1	1805.3	1484.7	1373.0	1314.5	1266.7	1219.7	1184.3	1158.8	1134.9	1133.4
25°	2262.9	1863.1	1488.6	1360.7	1289.8	1234.3	1187.3	1145.7	1117.2	1090.3	1087.2
27.5°	2379.3	1911.6	1479.4	1336.0	1256.7	1196.6	1149.6	1108.7	1079.5	1052.5	1047.9
30°	2503.3	1953.2	1459.3	1303.7	1218.2	1156.5	1110.3	1079.5	1051.7	1024.8	1020.1
32.5°	2635.9	1989.4	1430.8	1264.4	1173.5	1116.4	1082.5	1054.8	1027.1	1003.2	998.6
35°	2793.8	2013.3	1388.4	1213.5	1131.9	1087.2	1064.1	1031.7	997.8	971.6	969.3
37.5°	2957.2	2031.8	1337.6	1165.0	1095.6	1070.2	1051.0	1007.0	964.7	933.1	929.2
40°	3115.1	2047.2	1274.4	1119.5	1062.5	1057.9	1031.7	977.0	903.8	868.3	865.3
42.5°	3262.3	2051.8	1208.1	1071.0	1032.5	1030.2	1000.9	916.1	859.9	837.5	834.4
45°	3363.2	2048.0	1139.6	1025.5	1002.4	990.1	959.3	872.2	837.5	817.5	813.6
47.5°	3437.9	2027.9	1062.5	977.8	968.5	951.6	885.3	844.5	812.1	792.1	788.2
50°	3424.8	1944.7	984.7	931.5	927.7	913.0	831.4	809.8	781.3	759.7	756.6
52.5°	3357.0	1786.8	905.3	880.7	888.4	859.9	792.8	768.2	743.5	718.9	713.5
55°	3374.0	1672.7	845.2	831.4	845.2	780.5	749.7	723.5	700.4	676.5	671.9
57.5°	3448.0	1560.3	781.3	778.2	792.8	719.6	694.2	661.1	628.0	608.7	608.7
60°	2895.5	1137.3	668.8	676.5	709.6	670.3	648.0	614.1	577.9	560.9	560.9
62.5°	1712.0	713.5	554.8	546.3	567.1	591.7	604.1	576.3	533.2	510.8	511.6
65°	754.3	519.3	489.3	482.3	476.2	493.1	527.0	529.3	483.9	457.7	458.4
67.5°	464.6	470.0	457.7	452.3	446.9	443.8	440.7	442.3	429.9	406.1	405.3
70°	419.1	433.8	425.3	420.7	413.8	408.4	389.9	359.8	339.0	332.9	339.8
72.5°	360.6	380.6	376.0	373.7	365.2	352.1	327.5	298.2	273.5	258.1	261.2
75°	272.0	288.2	290.5	291.2	282.0	269.7	244.2	219.6	198.0	181.8	185.7
77.5°	156.4	165.7	168.0	170.3	163.3	158.7	141.8	124.0	112.5	95.5	100.2
80°	87.1	90.9	90.9	91.7	87.8	82.4	70.9	60.9	55.5	47.8	48.5
82.5°	52.4	53.9	54.7	55.5	53.2	47.8	39.3	32.4	29.3	25.4	24.7
85°	25.4	27.0	27.0	27.7	23.9	20.8	16.2	12.3	10.8	7.7	8.5
87.5°	6.2	6.9	6.9	6.2	5.4	3.9	2.3	0.8	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)