

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: P632342

Luminaire Tested: GWS-SA2C-740-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7245.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

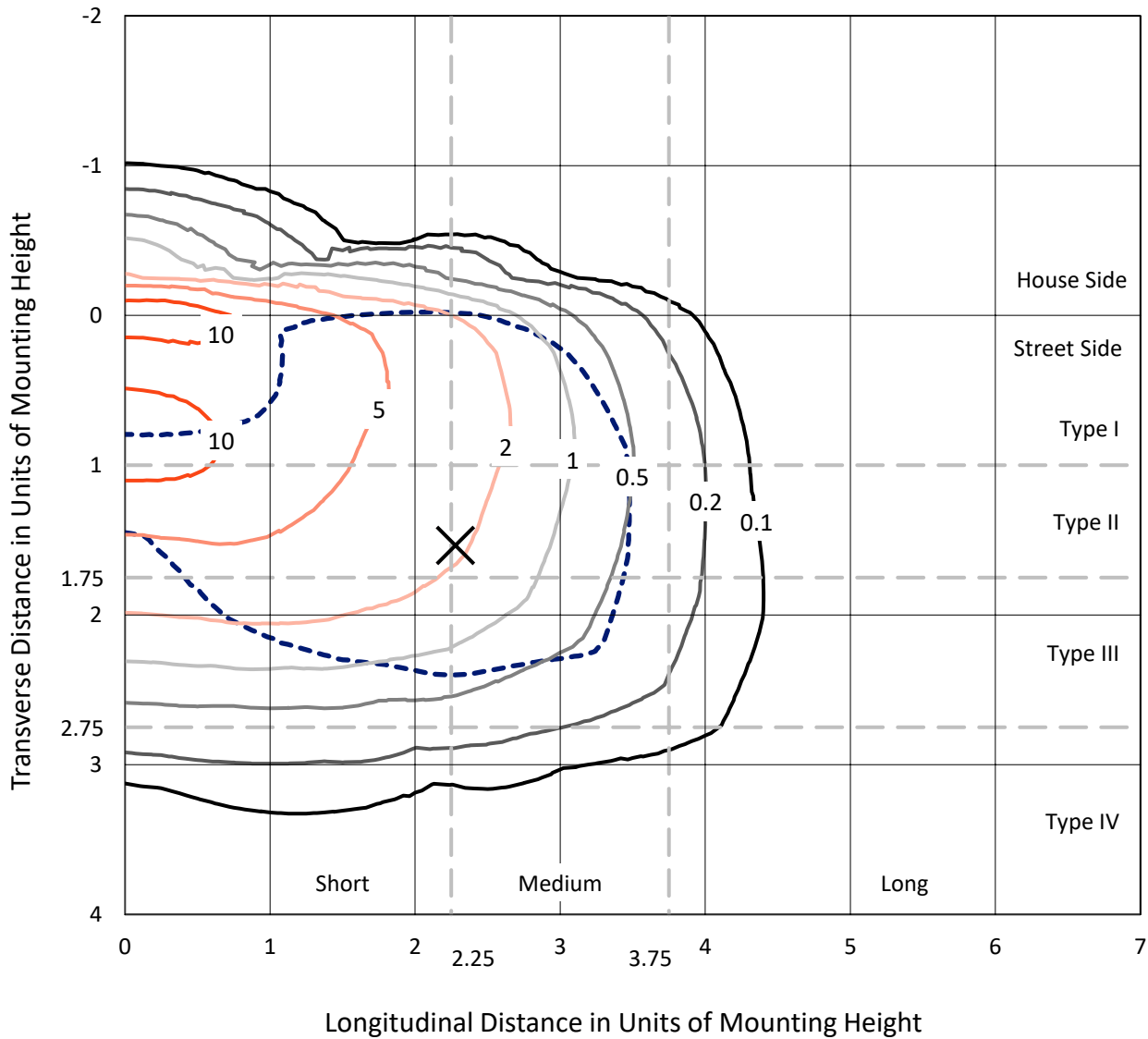
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

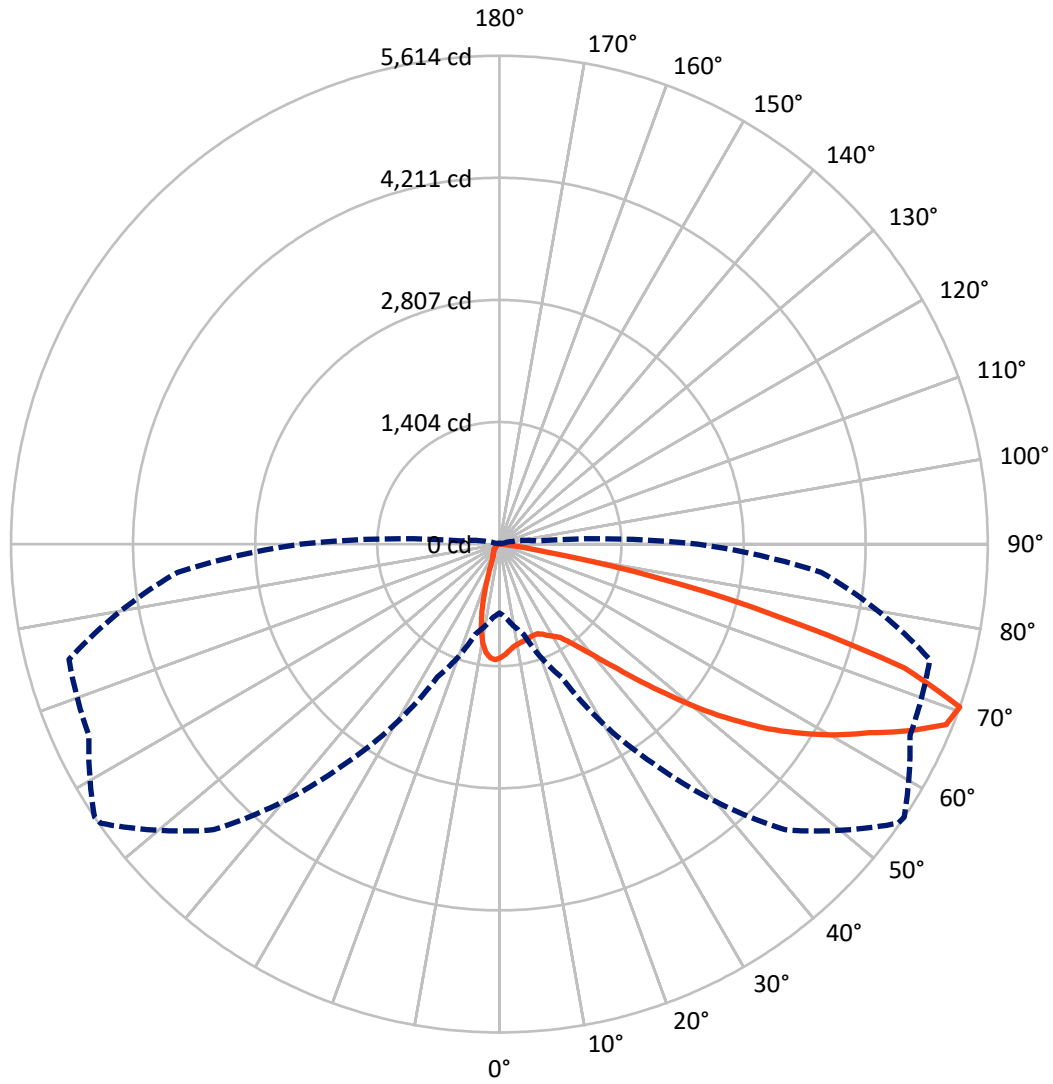
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.8	0.0	650.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	6594.5	0.0	6594.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	7245.3	0.0	7245.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	1.5
10°-20°	252.3	3.5
20°-30°	399.6	5.5
30°-40°	689.1	9.5
40°-50°	1163.7	16.1
50°-60°	1709.8	23.6
60°-70°	2027.1	28.0
70°-80°	864.4	11.9
80°-90°	27.1	0.4
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°	7245.3	100.0
0°-180°	7245.3	100.0

Coefficient of Utilization



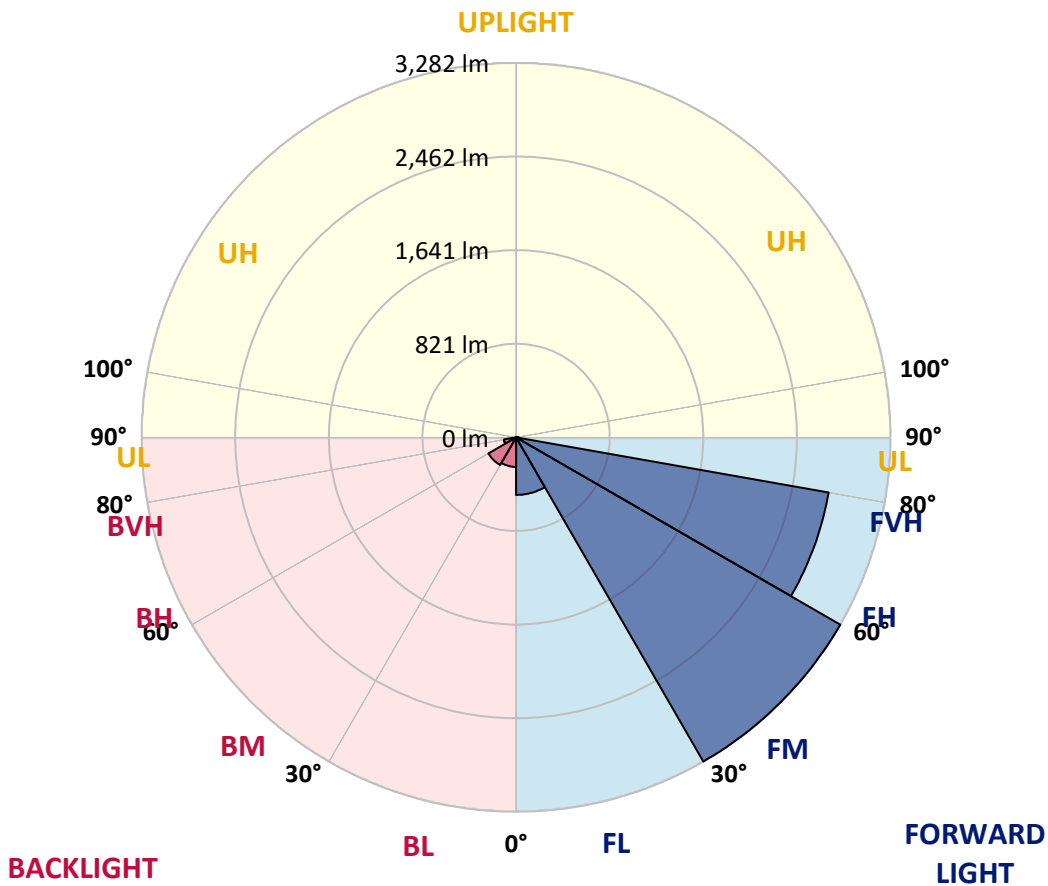
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.9	7.0			
FM (30°-60°)	3282.3	45.3			
FH (60°-80°)	2783.0	38.4			G2/5000
FVH (80°-90°)	24.4	0.3			G1/100
BL (0°-30°)	259.2	3.6	B1/500		
BM (30°-60°)	280.3	3.9	B1/1000		
BH (60°-80°)	108.5	1.5	B0/110		G0/110
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4
2.5°	1216.2	1214.2	1215.5	1225.5	1244.0	1252.7	1267.3	1269.9	1281.9	1297.1	1303.1
5°	1137.2	1130.6	1133.9	1147.8	1169.1	1192.9	1220.1	1227.4	1257.3	1291.1	1316.4
7.5°	1064.9	1057.6	1065.6	1087.5	1117.3	1143.2	1183.7	1188.3	1236.1	1295.8	1341.6
10°	951.4	953.4	969.4	1007.8	1053.6	1107.4	1161.8	1168.4	1227.4	1311.0	1382.0
12.5°	864.5	859.9	877.1	920.9	985.3	1063.6	1145.2	1153.8	1228.1	1334.3	1433.8
15°	824.0	822.7	830.0	861.9	924.2	1016.5	1129.9	1141.2	1236.7	1355.5	1482.9
17.5°	825.4	823.4	822.7	841.3	887.7	981.3	1113.3	1127.9	1244.0	1378.7	1534.6
20°	883.1	873.8	857.2	848.6	876.5	958.7	1102.0	1118.6	1254.6	1403.3	1589.7
22.5°	1003.9	1007.2	962.7	916.3	903.0	961.4	1100.7	1120.0	1277.9	1441.8	1657.4
25°	1245.4	1240.1	1157.8	1053.6	981.3	991.9	1123.9	1147.2	1323.7	1496.8	1721.1
27.5°	1547.9	1552.6	1439.8	1273.9	1122.6	1054.9	1166.4	1189.6	1376.7	1531.3	1763.5
30°	1877.7	1873.0	1752.3	1568.5	1323.0	1159.8	1208.9	1229.4	1403.3	1549.9	1807.3
32.5°	2189.5	2178.9	2059.5	1867.0	1578.4	1325.0	1267.3	1279.2	1438.4	1590.4	1866.4
35°	2455.6	2454.9	2350.7	2145.7	1841.2	1532.0	1367.4	1377.4	1504.1	1654.7	1953.3
37.5°	2730.2	2720.9	2604.2	2417.1	2111.2	1758.9	1520.7	1516.7	1607.6	1749.6	2060.1
40°	2955.8	2949.9	2860.3	2680.5	2391.9	2009.7	1706.5	1694.5	1730.4	1881.0	2208.7
42.5°	3123.0	3123.7	3095.8	2986.3	2689.1	2299.6	1940.0	1921.5	1920.8	2079.4	2405.1
45°	3249.7	3258.4	3300.2	3283.6	3040.1	2637.3	2239.3	2220.0	2187.5	2336.8	2630.1
47.5°	3308.8	3320.1	3446.1	3512.5	3347.3	2972.4	2595.6	2555.1	2491.4	2679.1	2881.5
50°	3302.8	3322.7	3498.6	3700.3	3625.9	3312.1	2983.7	2964.4	2860.3	3041.4	3130.3
52.5°	3167.5	3209.9	3501.9	3814.4	3840.2	3625.3	3385.1	3349.3	3298.8	3419.6	3363.9
55°	2799.9	2851.7	3361.9	3850.9	4007.4	3898.6	3777.9	3748.7	3665.1	3776.6	3567.6
57.5°	2600.2	2644.6	3067.3	3832.9	4149.4	4151.4	4127.5	4103.7	4034.6	4129.5	3806.4
60°	2480.1	2524.6	2910.0	3767.3	4278.1	4418.1	4456.0	4453.3	4353.8	4530.9	4086.4
62.5°	2304.3	2365.3	2746.2	3596.7	4369.7	4680.9	4795.0	4777.1	4666.3	4948.9	4363.7
65°	1949.3	2002.4	2410.4	3315.4	4316.0	4898.5	5162.6	5171.9	5043.8	5342.4	4582.7
67.5°	1366.8	1405.9	1811.3	2724.9	3951.0	4970.2	5538.8	5538.1	5319.8	5544.1	4485.8
70°	792.2	845.9	1070.2	1684.6	3073.9	4644.4	5595.2	5614.4	5207.7	5122.8	3712.2
72.5°	306.5	351.0	606.4	895.0	1603.0	3557.6	4812.9	4869.3	4358.4	3951.7	2583.6
75°	91.6	102.2	285.3	476.4	643.6	1718.4	3258.4	3274.3	2989.7	2464.8	1324.3
77.5°	68.3	75.6	124.7	240.8	225.6	520.8	1685.9	1841.2	1587.1	880.4	364.9
80°	46.4	55.1	88.9	117.4	83.6	138.7	473.7	520.2	484.3	197.7	91.6
82.5°	20.6	26.5	63.0	59.1	30.5	39.8	146.0	155.3	100.2	59.7	31.8
85°	2.0	2.7	23.9	25.9	11.3	9.3	30.5	30.5	21.9	20.6	13.3
87.5°	0.0	0.0	0.7	1.3	1.3	2.0	2.7	3.3	4.0	5.3	6.6
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°	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4	1306.4
2.5°	1318.3	1310.4	1320.3	1328.3	1330.3	1315.7	1307.1	1294.5	1291.8	1292.5	1289.1
5°	1336.3	1332.3	1339.6	1330.9	1308.4	1265.9	1229.4	1189.0	1167.1	1154.5	1153.1
7.5°	1369.4	1367.4	1359.5	1320.3	1250.0	1155.8	1064.9	976.0	920.9	901.0	897.7
10°	1418.5	1414.5	1382.0	1289.1	1139.2	958.1	805.5	678.1	600.5	577.9	550.0
12.5°	1474.9	1467.0	1396.0	1222.1	972.0	721.2	530.8	388.1	321.1	301.2	301.2
15°	1529.3	1512.1	1388.0	1111.3	766.3	469.1	296.6	224.3	203.7	198.4	198.4
17.5°	1585.1	1551.9	1356.8	960.1	529.5	277.3	197.7	183.8	181.1	181.8	182.5
20°	1637.5	1585.7	1301.8	778.3	337.7	193.7	177.2	173.8	172.5	173.8	173.2
22.5°	1694.5	1616.9	1218.2	579.9	219.6	174.5	168.5	165.9	164.5	166.5	166.5
25°	1750.9	1639.5	1107.4	390.1	174.5	162.6	159.2	156.6	155.3	155.9	155.9
27.5°	1780.1	1630.8	962.1	248.8	156.6	150.6	147.3	144.0	142.0	141.3	142.0
30°	1800.0	1604.3	784.2	177.2	142.0	134.7	131.4	128.7	123.4	120.1	121.4
32.5°	1831.2	1577.8	591.2	148.6	130.0	118.8	113.5	106.8	99.5	96.2	96.2
35°	1868.4	1541.3	414.7	134.0	117.4	105.5	95.5	84.3	75.6	73.0	73.0
37.5°	1917.5	1506.8	276.0	124.1	106.8	94.2	80.3	67.0	57.7	56.4	55.7
40°	1991.1	1477.6	194.4	116.8	97.5	82.3	65.7	51.8	45.1	43.1	43.1
42.5°	2086.7	1447.7	153.9	109.5	89.6	71.0	52.4	41.1	35.8	34.5	33.8
45°	2204.8	1412.6	134.0	102.8	81.6	59.1	41.8	34.5	30.5	29.2	29.2
47.5°	2332.8	1364.8	124.7	94.2	72.3	47.8	35.2	29.9	27.9	27.2	26.5
50°	2458.9	1300.4	116.8	86.3	61.7	39.1	30.5	27.2	25.9	25.2	25.2
52.5°	2569.0	1225.5	106.8	77.0	50.4	33.8	27.2	25.2	23.9	22.6	21.9
55°	2663.2	1143.8	94.2	66.3	41.1	29.9	25.2	23.2	21.9	20.6	19.9
57.5°	2784.6	1097.4	75.6	53.7	33.8	26.5	23.2	21.2	19.9	17.9	17.9
60°	2919.3	1063.6	56.4	42.5	29.2	24.5	21.2	19.2	17.9	15.9	15.9
62.5°	3027.5	1013.1	44.5	34.5	25.2	21.9	19.2	17.3	15.9	13.9	13.9
65°	3068.6	909.0	36.5	27.2	20.6	19.2	17.3	15.9	13.9	11.9	11.9
67.5°	2882.8	700.6	30.5	21.9	17.3	16.6	15.3	14.6	11.9	10.6	10.0
70°	2283.0	427.3	25.2	17.9	14.6	13.9	13.9	12.6	10.6	10.0	9.3
72.5°	1564.5	220.3	20.6	14.6	12.6	12.6	11.9	11.3	10.0	9.3	9.3
75°	812.8	73.6	15.9	11.3	10.0	10.6	10.6	10.0	9.3	9.3	8.6
77.5°	232.9	33.2	11.9	8.6	8.0	8.0	8.6	8.6	8.6	8.0	8.0
80°	60.4	19.2	8.6	6.6	6.6	6.6	6.6	7.3	8.0	7.3	7.3
82.5°	24.5	10.6	6.0	5.3	5.3	5.3	5.3	6.0	6.6	6.6	6.6
85°	15.3	5.3	4.6	4.6	4.6	4.0	4.0	4.6	4.6	5.3	5.3
87.5°	9.3	4.0	4.0	4.0	4.0	3.3	3.3	3.3	3.3	3.3	3.3
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)