

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: P636577

Luminaire Tested: GWS-SA4B-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636577
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-SA4B-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8346.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

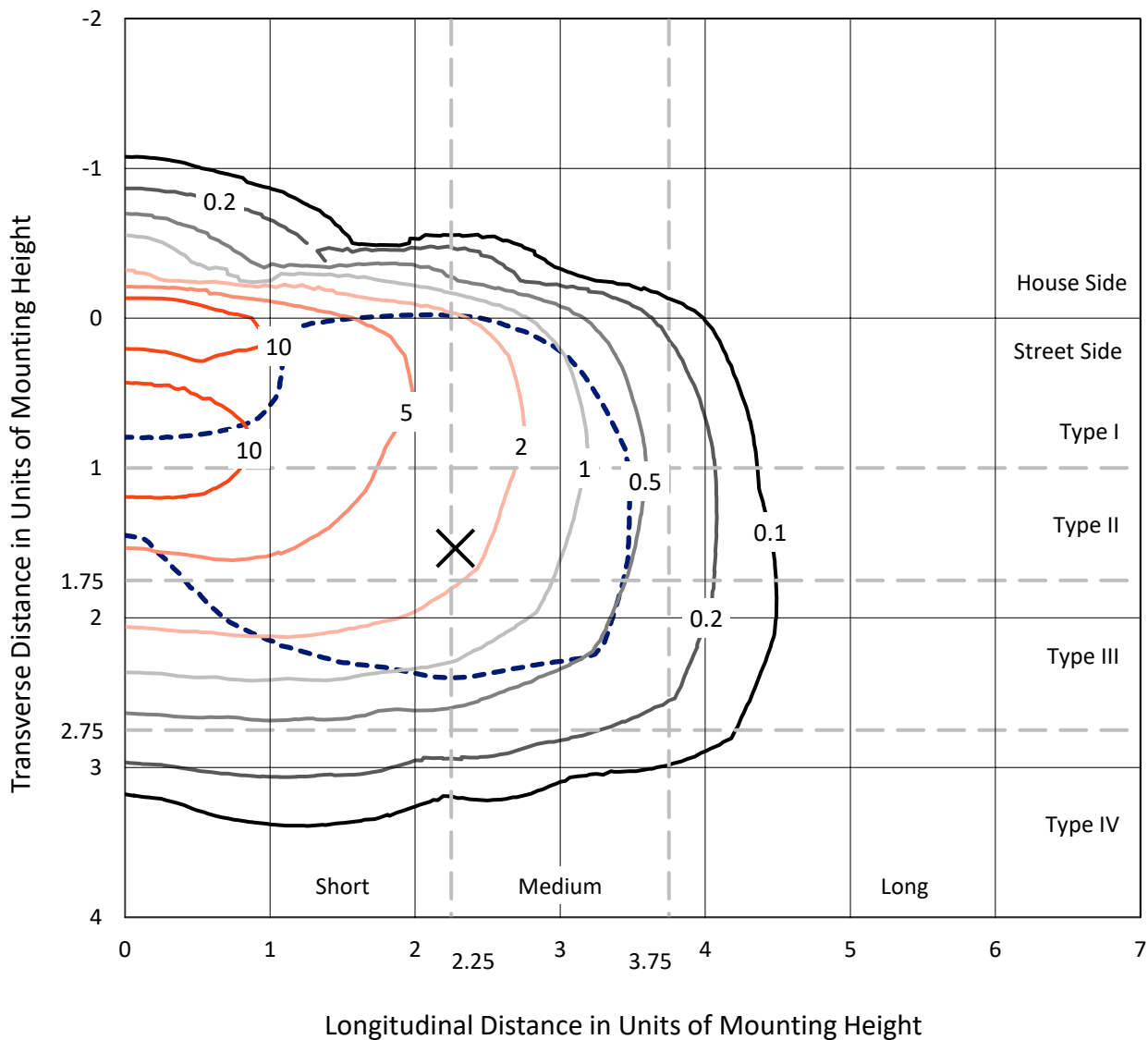
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

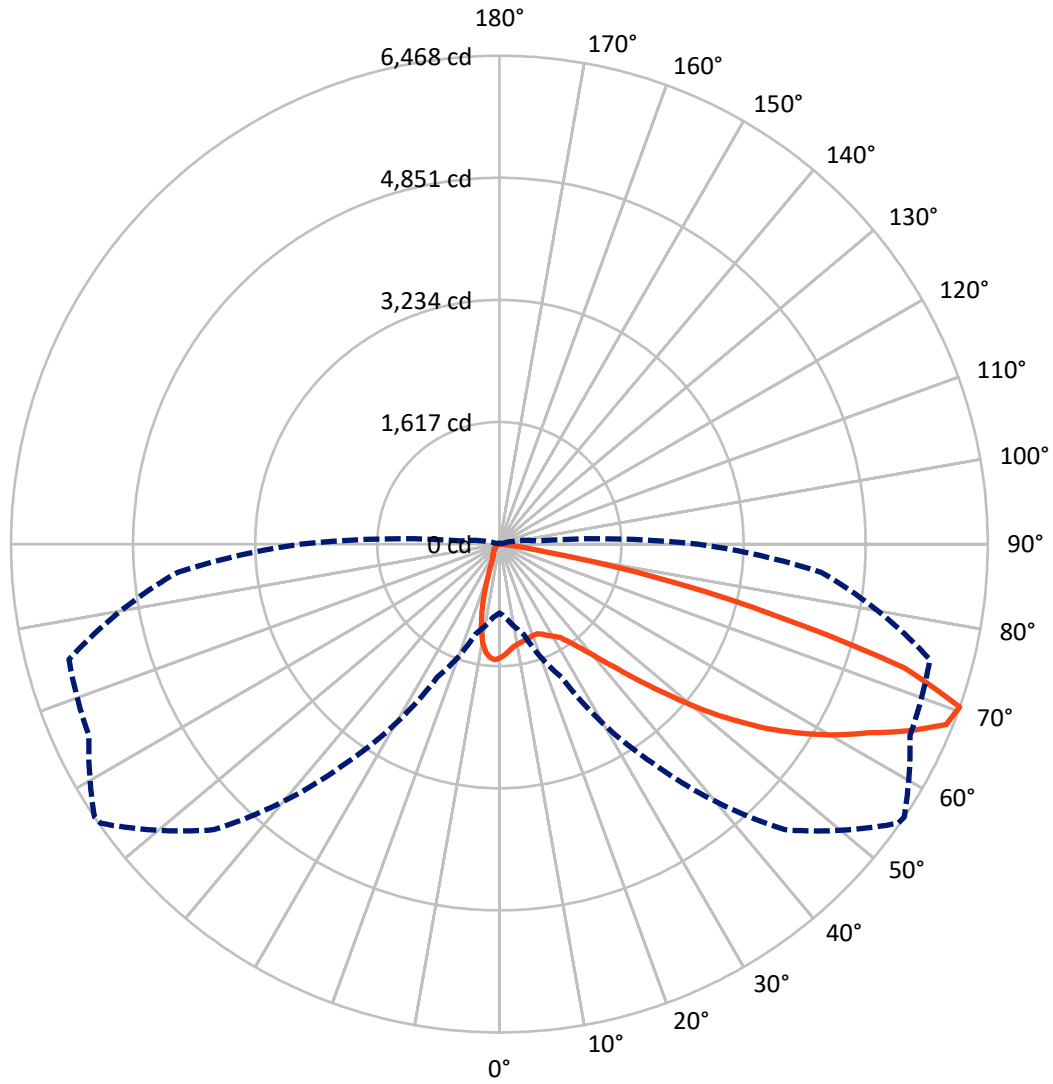
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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	749.7	0.0	749.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	7596.6	0.0	7596.6
	% Fixture	91.0	0.0	91.0
Total	Lumens	8346.2	0.0	8346.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.5
10°-20°	290.6	3.5
20°-30°	460.3	5.5
30°-40°	793.8	9.5
40°-50°	1340.5	16.1
50°-60°	1969.6	23.6
60°-70°	2335.1	28.0
70°-80°	995.8	11.9
80°-90°	31.3	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°	8346.2	100.0
0°-180°	8346.2	100.0

Coefficient of Utilization

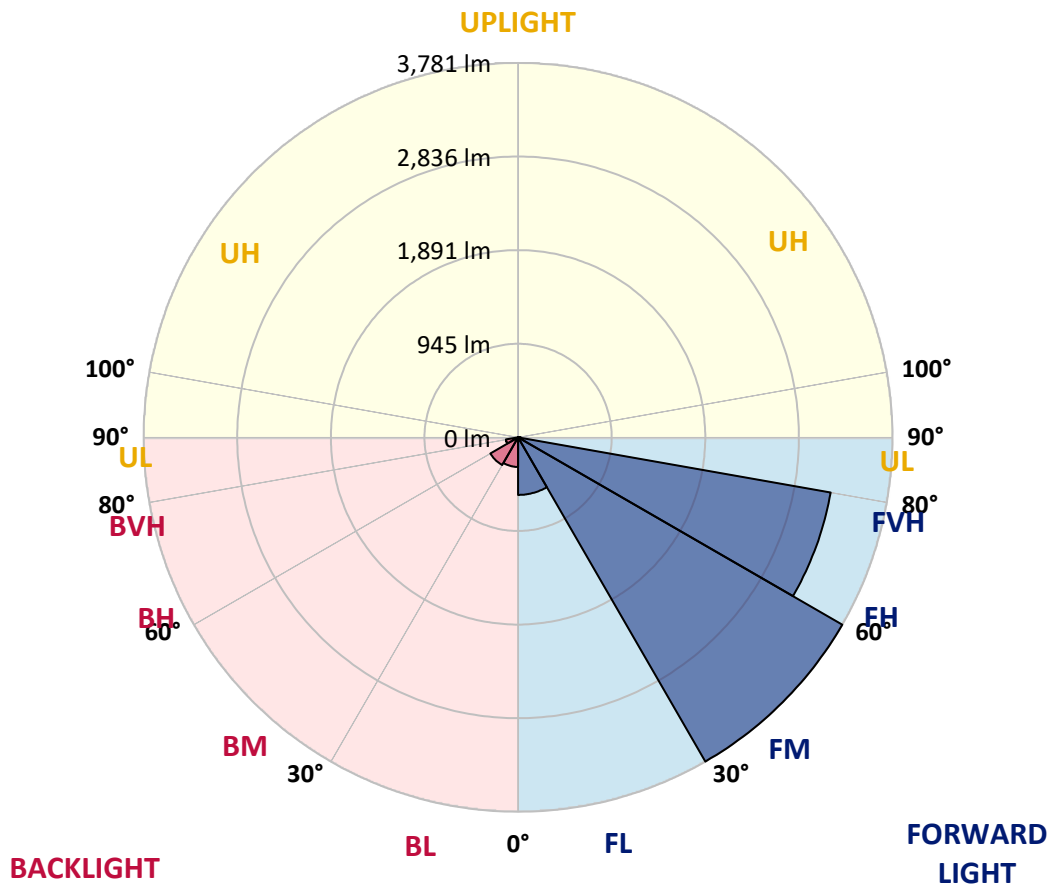


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.6	7.0			
FM (30°-60°)	3781.1	45.3			
FH (60°-80°)	3205.8	38.4			G2/5000
FVH (80°-90°)	28.1	0.3			G1/100
BL (0°-30°)	298.6	3.6	B1/500		
BM (30°-60°)	322.9	3.9	B1/1000		
BH (60°-80°)	125.0	1.5	B1/500		G1/500
BVH (80°-90°)	3.2	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°	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9
2.5°	1401.0	1398.7	1400.2	1411.7	1433.1	1443.0	1459.8	1462.9	1476.6	1494.2	1501.1
5°	1310.0	1302.4	1306.2	1322.2	1346.7	1374.2	1405.5	1414.0	1448.3	1487.3	1516.4
7.5°	1226.7	1218.3	1227.5	1252.7	1287.1	1316.9	1363.5	1368.9	1423.9	1492.7	1545.4
10°	1096.0	1098.3	1116.6	1161.0	1213.7	1275.6	1338.3	1345.9	1414.0	1510.3	1592.0
12.5°	995.9	990.5	1010.4	1060.8	1135.0	1225.2	1319.2	1329.1	1414.7	1537.0	1651.6
15°	949.3	947.7	956.1	992.8	1064.7	1170.9	1301.6	1314.6	1424.7	1561.5	1708.2
17.5°	950.8	948.5	947.7	969.1	1022.6	1130.4	1282.5	1299.3	1433.1	1588.2	1767.8
20°	1017.3	1006.6	987.5	977.5	1009.6	1104.4	1269.5	1288.6	1445.3	1616.5	1831.3
22.5°	1156.4	1160.2	1109.0	1055.5	1040.2	1107.5	1268.0	1290.1	1472.0	1660.8	1909.2
25°	1434.6	1428.5	1333.7	1213.7	1130.4	1142.6	1294.7	1321.5	1524.8	1724.3	1982.6
27.5°	1783.1	1788.5	1658.5	1467.5	1293.2	1215.2	1343.6	1370.4	1585.9	1764.0	2031.5
30°	2163.0	2157.6	2018.5	1806.8	1524.0	1336.0	1392.6	1416.2	1616.5	1785.4	2081.9
32.5°	2522.2	2510.0	2372.4	2150.7	1818.3	1526.3	1459.8	1473.6	1657.0	1832.0	2150.0
35°	2828.7	2827.9	2707.9	2471.7	2120.9	1764.8	1575.2	1586.7	1732.7	1906.2	2250.1
37.5°	3145.1	3134.4	2999.9	2784.3	2432.0	2026.2	1751.8	1747.2	1851.9	2015.5	2373.1
40°	3405.0	3398.1	3294.9	3087.8	2755.3	2315.1	1965.8	1952.0	1993.3	2166.8	2544.3
42.5°	3597.6	3598.3	3566.2	3440.1	3097.7	2649.1	2234.8	2213.4	2212.6	2395.3	2770.6
45°	3743.5	3753.5	3801.6	3782.5	3502.0	3038.1	2579.5	2557.3	2519.9	2691.9	3029.7
47.5°	3811.6	3824.5	3969.8	4046.2	3855.9	3424.1	2989.9	2943.3	2869.9	3086.2	3319.3
50°	3804.7	3827.6	4030.1	4262.5	4176.9	3815.4	3437.1	3414.9	3294.9	3503.5	3606.0
52.5°	3648.8	3697.7	4034.0	4394.0	4423.8	4176.1	3899.5	3858.2	3800.1	3939.2	3875.0
55°	3225.3	3285.0	3872.7	4436.0	4616.4	4491.0	4351.9	4318.3	4222.0	4350.4	4109.6
57.5°	2995.3	3046.5	3533.4	4415.4	4779.9	4782.2	4754.7	4727.2	4647.7	4757.0	4384.8
60°	2856.9	2908.2	3352.2	4339.7	4928.2	5089.5	5133.0	5130.0	5015.3	5219.4	4707.3
62.5°	2654.4	2724.7	3163.4	4143.3	5033.7	5392.1	5523.6	5502.9	5375.3	5700.9	5026.8
65°	2245.5	2306.7	2776.7	3819.2	4971.8	5642.8	5947.0	5957.7	5810.2	6154.1	5279.0
67.5°	1574.5	1619.5	2086.5	3139.0	4551.4	5725.4	6380.4	6379.6	6128.1	6386.5	5167.4
70°	912.6	974.5	1232.8	1940.6	3541.0	5350.1	6445.3	6467.5	5999.0	5901.1	4276.3
72.5°	353.1	404.3	698.6	1031.0	1846.5	4098.2	5544.2	5609.2	5020.7	4552.2	2976.2
75°	105.5	117.7	328.6	548.8	741.4	1979.5	3753.5	3771.8	3443.9	2839.4	1525.5
77.5°	78.7	87.1	143.7	277.4	259.9	600.0	1942.1	2120.9	1828.2	1014.2	420.4
80°	53.5	63.4	102.4	135.3	96.3	159.7	545.7	599.2	557.9	227.8	105.5
82.5°	23.7	30.6	72.6	68.0	35.2	45.9	168.1	178.8	115.4	68.8	36.7
85°	2.3	3.1	27.5	29.8	13.0	10.7	35.2	35.2	25.2	23.7	15.3
87.5°	0.0	0.0	0.8	1.5	1.5	2.3	3.1	3.8	4.6	6.1	7.6
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°	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9	1504.9
2.5°	1518.7	1509.5	1521.0	1530.1	1532.4	1515.6	1505.7	1491.1	1488.1	1488.9	1485.0
5°	1539.3	1534.7	1543.1	1533.2	1507.2	1458.3	1416.2	1369.6	1344.4	1329.9	1328.4
7.5°	1577.5	1575.2	1566.0	1521.0	1439.9	1331.4	1226.7	1124.3	1060.8	1037.9	1034.1
10°	1634.1	1629.5	1592.0	1485.0	1312.3	1103.6	927.9	781.1	691.7	665.7	633.6
12.5°	1699.0	1689.9	1608.1	1407.8	1119.7	830.8	611.4	447.1	369.9	347.0	347.0
15°	1761.7	1741.8	1598.9	1280.2	882.8	540.4	341.6	258.3	234.6	228.5	228.5
17.5°	1825.9	1787.7	1563.0	1105.9	609.9	319.5	227.8	211.7	208.7	209.4	210.2
20°	1886.3	1826.7	1499.6	896.5	389.0	223.2	204.1	200.2	198.7	200.2	199.5
22.5°	1952.0	1862.6	1403.3	668.0	253.0	201.0	194.1	191.1	189.5	191.8	191.8
25°	2017.0	1888.6	1275.6	449.4	201.0	187.3	183.4	180.4	178.8	179.6	179.6
27.5°	2050.6	1878.6	1108.2	286.6	180.4	173.5	169.7	165.9	163.6	162.8	163.6
30°	2073.5	1848.1	903.4	204.1	163.6	155.2	151.3	148.3	142.2	138.3	139.9
32.5°	2109.5	1817.5	681.0	171.2	149.8	136.8	130.7	123.1	114.6	110.8	110.8
35°	2152.3	1775.5	477.7	154.4	135.3	121.5	110.1	97.1	87.1	84.1	84.1
37.5°	2208.8	1735.7	317.9	142.9	123.1	108.5	92.5	77.2	66.5	65.0	64.2
40°	2293.7	1702.1	223.9	134.5	112.4	94.8	75.7	59.6	52.0	49.7	49.7
42.5°	2403.7	1667.7	177.3	126.1	103.2	81.8	60.4	47.4	41.3	39.7	39.0
45°	2539.8	1627.2	154.4	118.5	94.0	68.0	48.2	39.7	35.2	33.6	33.6
47.5°	2687.3	1572.2	143.7	108.5	83.3	55.0	40.5	34.4	32.1	31.3	30.6
50°	2832.5	1498.0	134.5	99.4	71.1	45.1	35.2	31.3	29.8	29.0	29.0
52.5°	2959.4	1411.7	123.1	88.7	58.1	39.0	31.3	29.0	27.5	26.0	25.2
55°	3067.9	1317.7	108.5	76.4	47.4	34.4	29.0	26.8	25.2	23.7	22.9
57.5°	3207.8	1264.1	87.1	61.9	39.0	30.6	26.8	24.5	22.9	20.6	20.6
60°	3362.9	1225.2	65.0	48.9	33.6	28.3	24.5	22.2	20.6	18.3	18.3
62.5°	3487.5	1167.1	51.2	39.7	29.0	25.2	22.2	19.9	18.3	16.1	16.1
65°	3534.9	1047.1	42.0	31.3	23.7	22.2	19.9	18.3	16.1	13.8	13.8
67.5°	3320.9	807.1	35.2	25.2	19.9	19.1	17.6	16.8	13.8	12.2	11.5
70°	2630.0	492.2	29.0	20.6	16.8	16.1	16.1	14.5	12.2	11.5	10.7
72.5°	1802.2	253.7	23.7	16.8	14.5	14.5	13.8	13.0	11.5	10.7	10.7
75°	936.3	84.8	18.3	13.0	11.5	12.2	12.2	11.5	10.7	10.7	9.9
77.5°	268.3	38.2	13.8	9.9	9.2	9.2	9.9	9.9	9.9	9.2	9.2
80°	69.6	22.2	9.9	7.6	7.6	7.6	7.6	8.4	9.2	8.4	8.4
82.5°	28.3	12.2	6.9	6.1	6.1	6.1	6.1	6.9	7.6	7.6	7.6
85°	17.6	6.1	5.4	5.4	5.4	4.6	4.6	5.4	5.4	6.1	6.1
87.5°	10.7	4.6	4.6	4.6	4.6	3.8	3.8	3.8	3.8	3.8	3.8
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)