

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: P639543

Luminaire Tested: GWS-SA5C-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-722-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12877.1 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

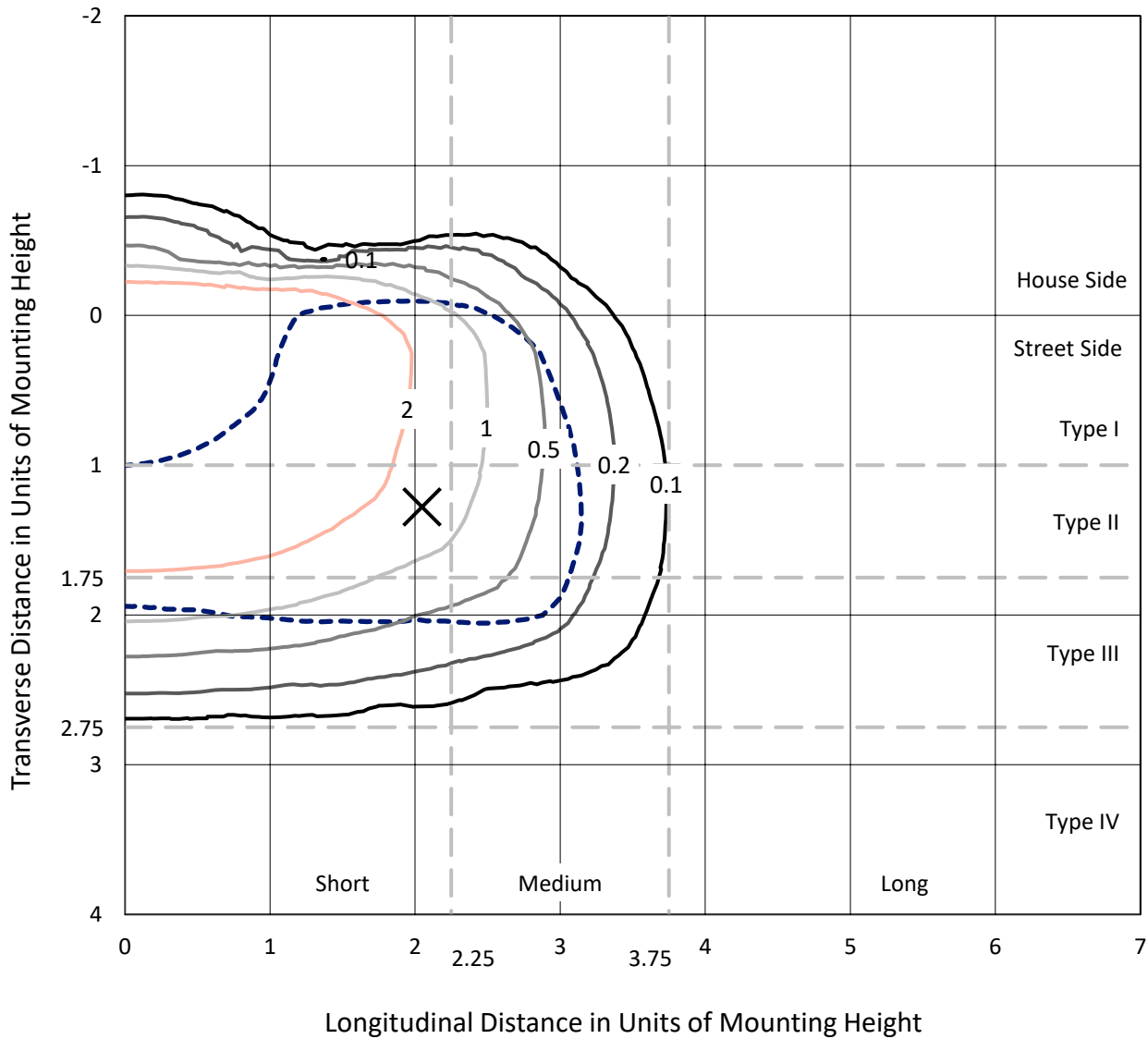
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639543
 CATALOG NUMBER: GWS-SA5C-722-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

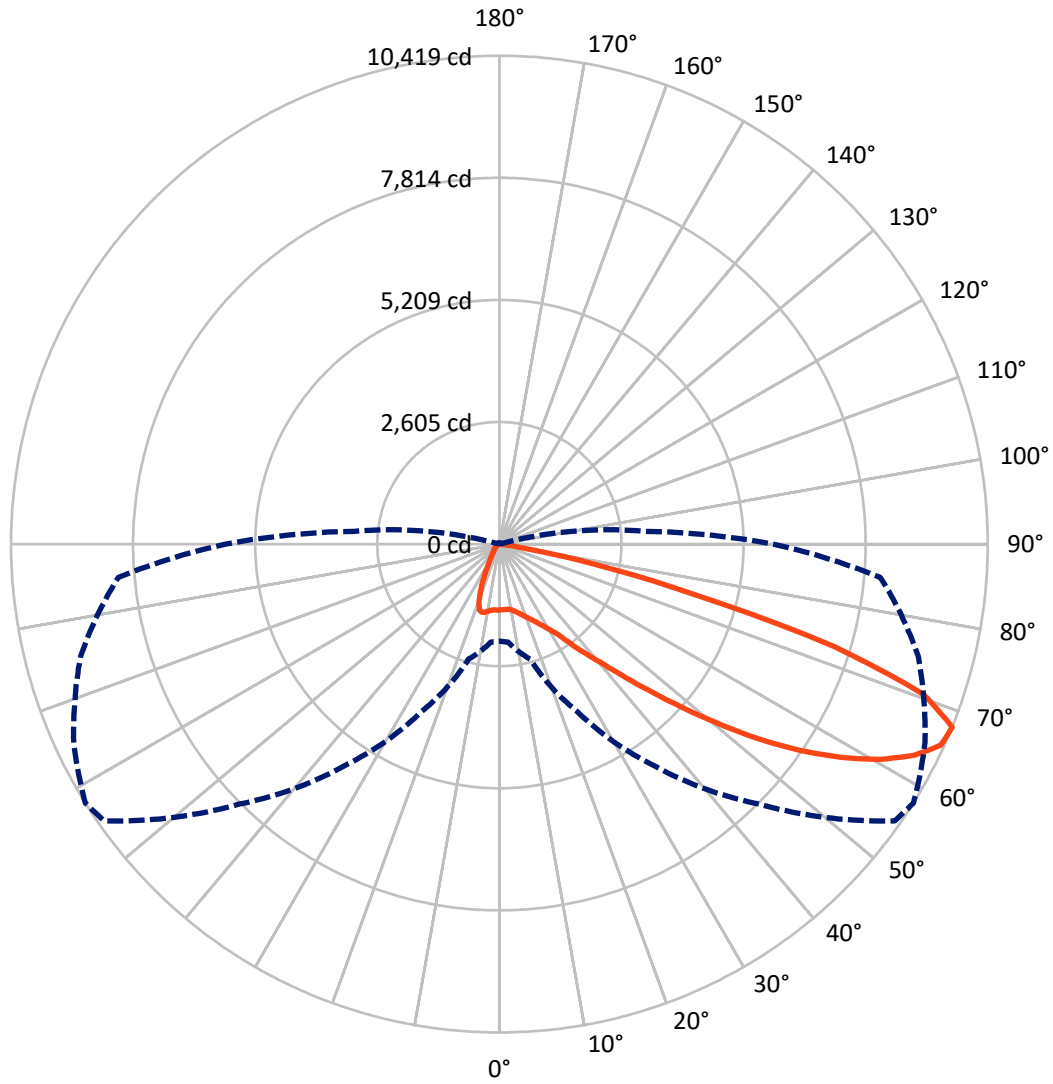
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Short - N/A

REPORT NUMBER: P639543
CATALOG NUMBER: GWS-SA5C-722-U-T3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639543

CATALOG NUMBER: GWS-SA5C-722-U-T3-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.9	0.0	1404.9
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11472.2	0.0	11472.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	12877.1	0.0	12877.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	1.0
10°-20°	370.1	2.9
20°-30°	646.0	5.0
30°-40°	1153.7	9.0
40°-50°	2108.8	16.4
50°-60°	3507.1	27.2
60°-70°	3809.3	29.6
70°-80°	1118.4	8.7
80°-90°	31.8	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°	12877.1	100.0
0°-180°	12877.1	100.0

Coefficient of Utilization



REPORT NUMBER: P639543

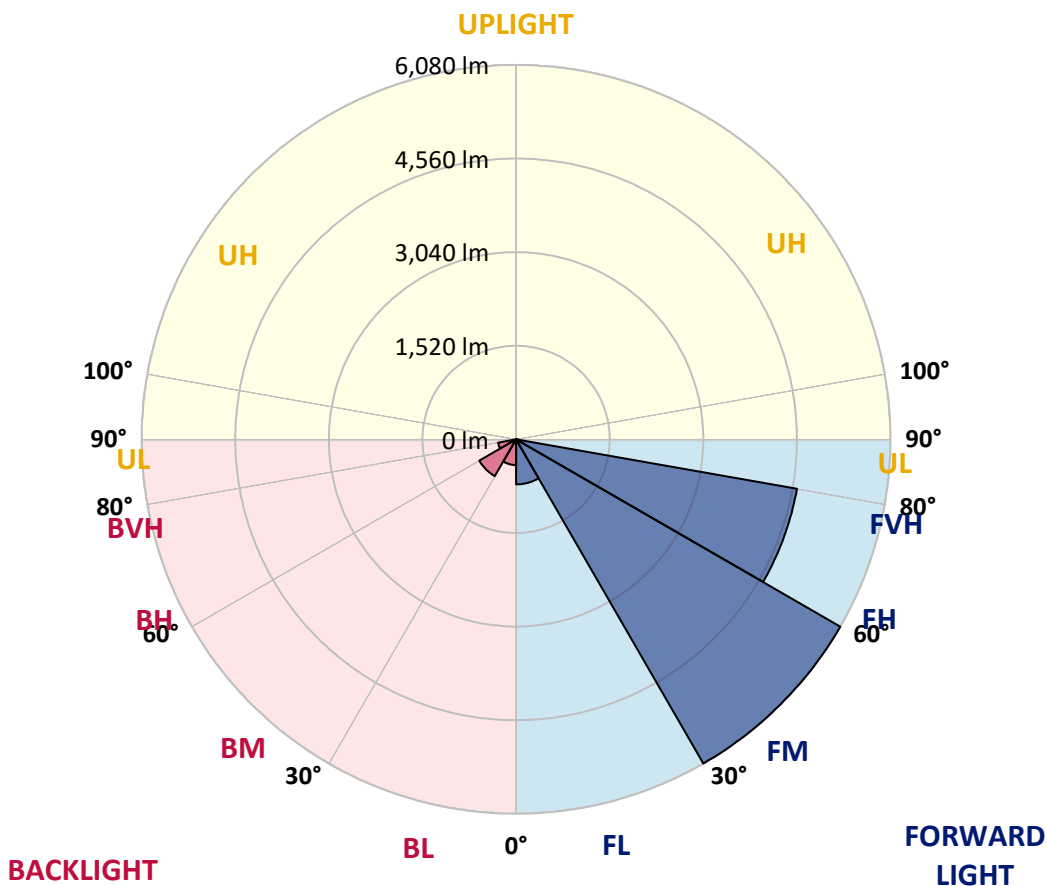
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.2	5.7			
FM (30°-60°)	6079.5	47.2			
FH (60°-80°)	4631.2	36.0			G2/5000
FVH (80°-90°)	30.3	0.2			G1/100
BL (0°-30°)	416.7	3.2	B1/500		
BM (30°-60°)	690.0	5.4	B1/1000		
BH (60°-80°)	296.6	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	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 Short





REPORT NUMBER: P639543

CATALOG NUMBER: GWS-SA5C-722-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1376.8	1374.3	1374.3	1384.4	1385.6	1390.6	1402.0	1403.2	1409.5	1407.0	1398.2
5°	1305.1	1306.4	1313.9	1331.5	1346.6	1365.5	1393.2	1399.4	1413.3	1420.8	1415.8
7.5°	1238.5	1239.8	1251.1	1278.7	1307.7	1345.4	1390.6	1403.2	1430.9	1451.0	1452.3
10°	1213.4	1212.1	1223.4	1254.9	1292.6	1345.4	1410.8	1427.1	1468.6	1503.8	1510.1
12.5°	1220.9	1219.6	1231.0	1259.9	1301.4	1368.0	1446.0	1468.6	1521.4	1575.5	1586.8
15°	1251.1	1249.8	1257.4	1281.3	1326.5	1395.7	1491.2	1525.2	1591.8	1657.2	1674.8
17.5°	1341.6	1335.3	1327.8	1330.3	1356.7	1428.4	1549.1	1590.6	1673.6	1751.5	1766.6
20°	1502.6	1486.2	1466.1	1439.7	1427.1	1476.1	1615.7	1663.5	1764.1	1853.4	1855.9
22.5°	1745.2	1738.9	1692.4	1615.7	1561.6	1562.9	1693.7	1749.0	1872.2	1970.3	1956.5
25°	2083.5	2079.7	2008.0	1882.3	1741.5	1693.7	1793.0	1849.6	2000.5	2104.8	2060.8
27.5°	2503.4	2477.0	2392.8	2223.0	2013.0	1863.4	1918.7	1969.0	2136.3	2234.3	2151.4
30°	2869.3	2870.6	2791.3	2614.1	2377.7	2118.7	2072.1	2116.1	2260.7	2363.8	2263.3
32.5°	3221.4	3232.7	3145.9	2986.2	2727.2	2451.9	2292.2	2299.7	2420.4	2532.3	2410.4
35°	3548.3	3557.1	3496.7	3360.9	3119.5	2800.2	2599.0	2595.2	2660.6	2775.0	2615.3
37.5°	3914.2	3923.0	3863.9	3741.9	3515.6	3198.7	2947.3	2942.2	2968.6	3061.7	2879.4
40°	4304.0	4320.3	4254.9	4151.8	3935.6	3667.7	3352.1	3306.9	3280.5	3389.9	3221.4
42.5°	4698.8	4723.9	4701.3	4598.2	4413.4	4192.1	3877.7	3807.3	3750.7	3887.8	3709.2
45°	5189.1	5219.3	5209.3	5130.0	4986.7	4806.9	4510.2	4428.4	4402.0	4529.0	4316.5
47.5°	5660.7	5693.3	5729.8	5712.2	5610.4	5527.4	5197.9	5151.4	5143.9	5279.7	4950.2
50°	6011.5	6041.6	6181.2	6281.8	6350.9	6333.3	6047.9	5978.8	5967.5	6054.2	5619.2
52.5°	6262.9	6291.9	6484.2	6798.6	7052.6	7190.9	6902.9	6887.8	6826.2	6796.1	6245.3
55°	6457.8	6498.1	6700.5	7175.8	7687.5	7994.3	7814.5	7760.5	7602.0	7428.5	6826.2
57.5°	6496.8	6513.1	6798.6	7439.8	8180.4	8677.1	8677.1	8582.8	8277.2	8037.1	7497.7
60°	6147.3	6197.6	6583.6	7418.5	8391.7	9123.4	9392.5	9327.1	8914.7	8619.2	8144.0
62.5°	5371.5	5428.0	5898.3	6906.7	8180.4	9215.2	9934.4	9924.4	9459.2	9100.8	8679.6
65°	4119.1	4160.6	4570.5	5777.6	7287.7	8861.9	10321.7	10349.4	9889.2	9418.9	8864.4
67.5°	2069.6	2098.5	2541.1	3946.9	5776.3	7844.7	10295.3	10418.5	10019.9	9250.4	8159.0
70°	723.0	751.9	960.6	1693.7	3515.6	5990.1	9405.1	9606.3	9251.7	7896.3	6019.0
72.5°	247.7	261.5	398.6	628.7	1368.0	3550.8	7151.9	7454.9	6819.9	5301.1	3459.0
75°	140.8	149.6	213.8	340.7	573.4	1168.1	4057.5	4243.6	3975.8	2889.4	1423.3
77.5°	95.6	103.1	133.3	193.6	316.9	376.0	1654.7	2083.5	1816.9	943.0	363.4
80°	56.6	61.6	81.7	114.4	162.2	145.9	354.6	471.5	607.3	281.6	109.4
82.5°	26.4	30.2	52.8	75.4	81.7	61.6	104.4	127.0	171.0	138.3	45.3
85°	0.0	0.0	17.6	31.4	30.2	17.6	28.9	31.4	46.5	69.2	17.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8	7.5	13.8	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639543
 CATALOG NUMBER: GWS-SA5C-722-U-T3-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1408.2	1399.4	1409.5	1404.5	1409.5	1408.2	1398.2	1391.9	1391.9	1380.6	1376.8
5°	1425.9	1417.1	1419.6	1408.2	1405.7	1399.4	1386.9	1381.8	1381.8	1370.5	1366.8
7.5°	1464.8	1451.0	1448.5	1425.9	1415.8	1398.2	1375.6	1366.8	1365.5	1354.2	1350.4
10°	1526.4	1510.1	1498.8	1469.9	1440.9	1405.7	1358.0	1317.7	1295.1	1264.9	1262.4
12.5°	1601.9	1581.8	1564.2	1520.2	1472.4	1393.2	1252.3	1105.2	1014.7	943.0	948.1
15°	1686.1	1667.3	1639.6	1573.0	1474.9	1268.7	974.5	748.1	637.5	578.4	575.9
17.5°	1777.9	1750.3	1705.0	1614.5	1395.7	969.4	633.7	447.6	389.8	369.7	364.6
20°	1863.4	1829.5	1772.9	1623.3	1166.8	656.3	396.1	347.0	337.0	330.7	330.7
22.5°	1953.9	1911.2	1827.0	1555.4	867.6	420.0	337.0	325.7	318.1	309.3	308.1
25°	2045.7	1990.4	1876.0	1378.1	568.3	330.7	315.6	303.0	289.2	275.4	271.6
27.5°	2123.7	2052.0	1913.7	1114.0	364.6	298.0	287.9	266.6	247.7	232.6	230.1
30°	2216.7	2124.9	1930.1	814.8	286.7	262.8	247.7	225.1	202.4	187.3	182.3
32.5°	2341.2	2240.6	1904.9	530.6	254.0	231.4	207.5	181.1	158.4	142.1	139.6
35°	2534.8	2415.4	1789.2	338.2	230.1	199.9	171.0	143.3	124.5	111.9	109.4
37.5°	2771.2	2660.6	1599.4	254.0	206.2	173.5	139.6	113.2	99.3	90.5	88.0
40°	3122.0	2967.4	1364.2	222.6	182.3	147.1	114.4	93.0	83.0	75.4	72.9
42.5°	3577.2	3329.5	1093.9	202.4	159.7	123.2	93.0	76.7	67.9	62.9	61.6
45°	4109.1	3682.8	808.5	182.3	138.3	101.8	76.7	62.9	56.6	52.8	51.6
47.5°	4653.5	3992.1	558.3	160.9	118.2	84.2	64.1	54.1	49.0	44.0	42.8
50°	5234.4	4253.7	381.0	139.6	100.6	69.2	55.3	49.0	42.8	39.0	37.7
52.5°	5660.7	4350.5	265.3	120.7	85.5	59.1	49.0	44.0	39.0	33.9	32.7
55°	6054.2	4348.0	201.2	101.8	72.9	51.6	44.0	39.0	33.9	30.2	28.9
57.5°	6446.5	4314.0	158.4	86.8	62.9	46.5	39.0	33.9	31.4	26.4	25.1
60°	6700.5	4185.8	123.2	72.9	54.1	40.2	33.9	30.2	26.4	22.6	21.4
62.5°	6835.0	4007.2	94.3	57.8	44.0	35.2	30.2	26.4	22.6	18.9	17.6
65°	6652.7	3690.4	74.2	45.3	33.9	30.2	25.1	21.4	17.6	13.8	12.6
67.5°	5844.2	3112.0	57.8	36.5	26.4	22.6	21.4	17.6	12.6	10.1	8.8
70°	4130.4	2131.2	45.3	27.7	20.1	17.6	16.3	13.8	10.1	7.5	6.3
72.5°	2267.0	1075.0	32.7	20.1	15.1	13.8	12.6	11.3	8.8	6.3	6.3
75°	872.6	295.5	23.9	13.8	10.1	10.1	8.8	8.8	7.5	5.0	5.0
77.5°	227.6	88.0	15.1	8.8	6.3	6.3	6.3	5.0	5.0	3.8	3.8
80°	72.9	28.9	8.8	6.3	5.0	3.8	3.8	2.5	3.8	2.5	2.5
82.5°	23.9	10.1	5.0	5.0	3.8	2.5	2.5	1.3	1.3	0.0	0.0
85°	8.8	5.0	3.8	2.5	2.5	2.5	1.3	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	2.5	2.5	2.5	1.3	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)