

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: P639213

Luminaire Tested: GWS-SA5B-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639213
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-SA5B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12856.7 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

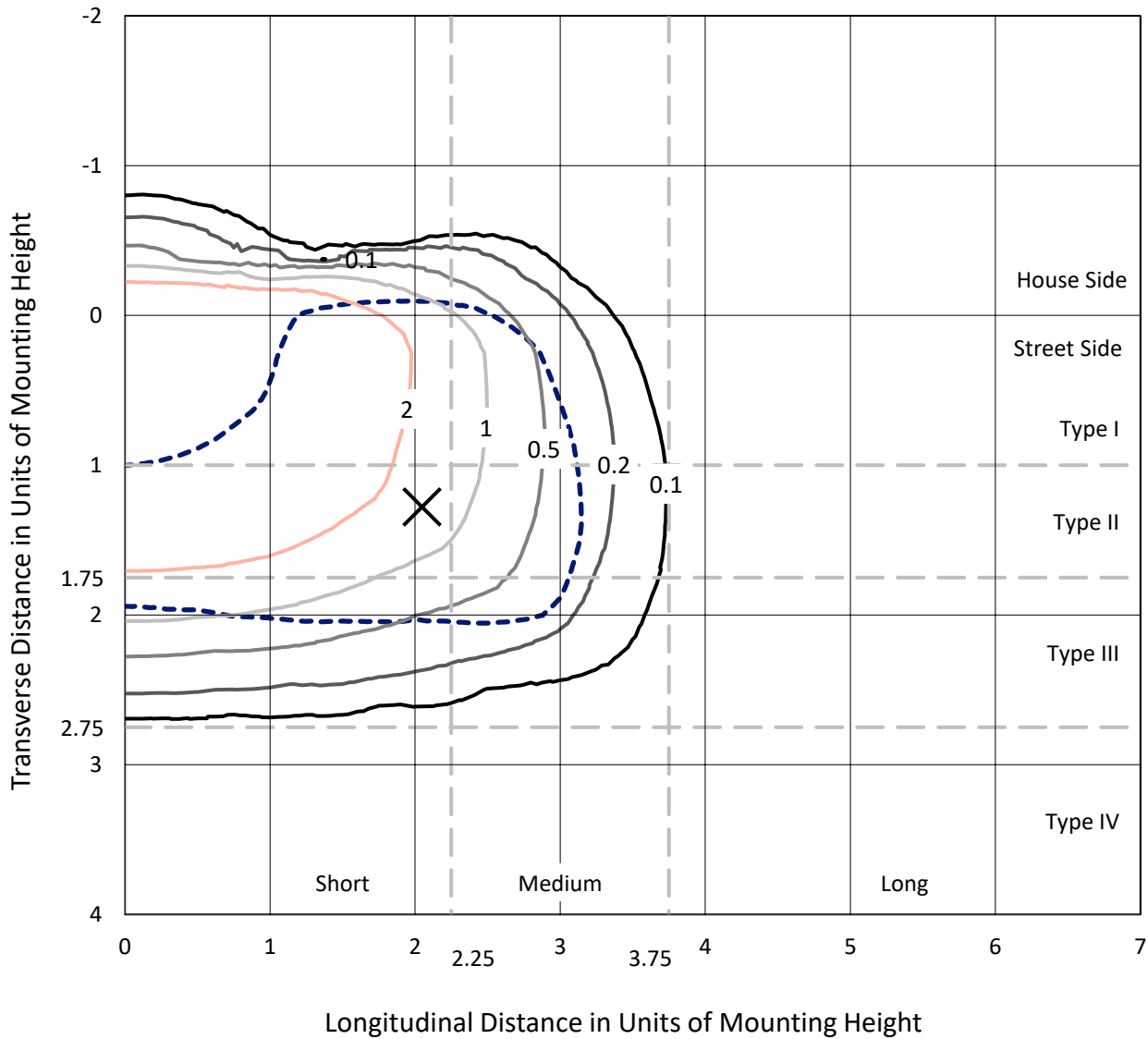
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

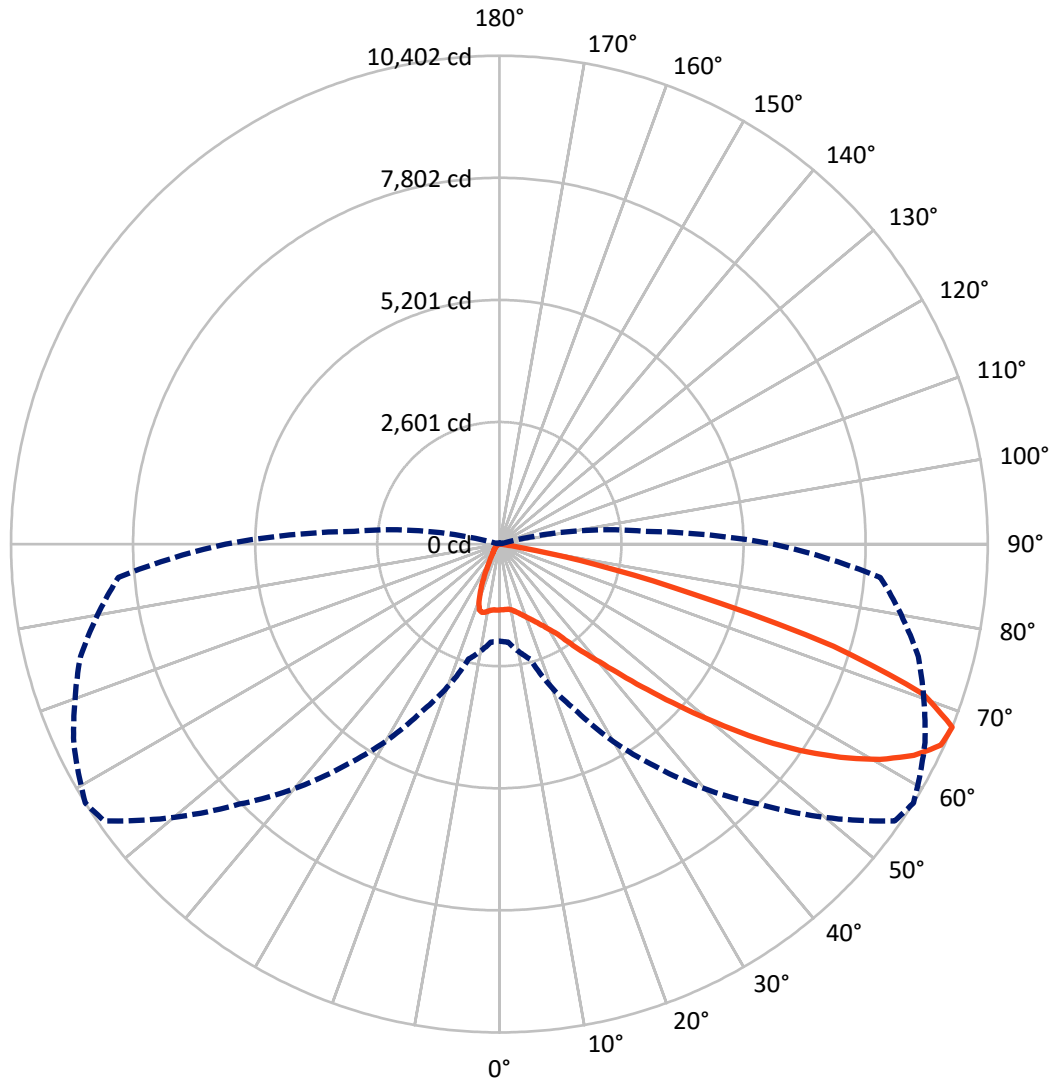
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.6	0.0	1402.6
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	11454.1	0.0	11454.1
	% Fixture	89.1	0.0	89.1
Total	Lumens	12856.7	0.0	12856.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.0
10°-20°	369.5	2.9
20°-30°	645.0	5.0
30°-40°	1151.9	9.0
40°-50°	2105.4	16.4
50°-60°	3501.5	27.2
60°-70°	3803.3	29.6
70°-80°	1116.7	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°	12856.7	100.0
0°-180°	12856.7	100.0

Coefficient of Utilization



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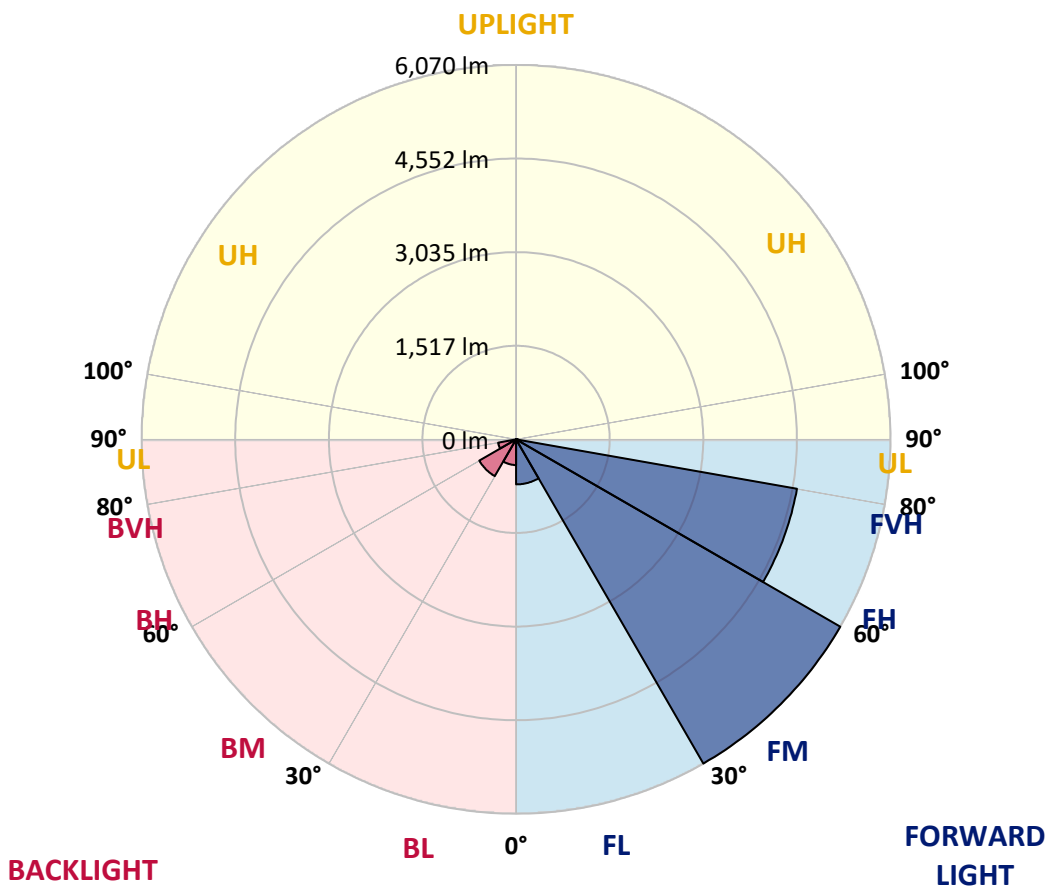
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.1	5.7			
FM (30°-60°)	6069.9	47.2			
FH (60°-80°)	4623.9	36.0			G2/5000
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	416.1	3.2	B1/500		
BM (30°-60°)	688.9	5.4	B1/1000		
BH (60°-80°)	296.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0
2.5°	1374.6	1372.1	1372.1	1382.2	1383.4	1388.4	1399.7	1401.0	1407.3	1404.8	1396.0
5°	1303.1	1304.3	1311.9	1329.4	1344.5	1363.3	1391.0	1397.2	1411.0	1418.6	1413.5
7.5°	1236.5	1237.8	1249.1	1276.7	1305.6	1343.2	1388.4	1401.0	1428.6	1448.7	1450.0
10°	1211.4	1210.2	1221.5	1252.9	1290.5	1343.2	1408.5	1424.8	1466.3	1501.4	1507.7
12.5°	1219.0	1217.7	1229.0	1257.9	1299.3	1365.8	1443.7	1466.3	1519.0	1573.0	1584.3
15°	1249.1	1247.8	1255.4	1279.2	1324.4	1393.5	1488.9	1522.8	1589.3	1654.6	1672.2
17.5°	1339.5	1333.2	1325.7	1328.2	1354.5	1426.1	1546.6	1588.0	1670.9	1748.7	1763.8
20°	1500.2	1483.9	1463.8	1437.4	1424.8	1473.8	1613.2	1660.9	1761.3	1850.4	1852.9
22.5°	1742.5	1736.2	1689.7	1613.2	1559.2	1560.4	1691.0	1746.2	1869.3	1967.2	1953.4
25°	2080.2	2076.4	2004.8	1879.3	1738.7	1691.0	1790.2	1846.7	1997.3	2101.5	2057.6
27.5°	2499.4	2473.1	2389.0	2219.5	2009.9	1860.5	1915.7	1965.9	2132.9	2230.8	2147.9
30°	2864.8	2866.0	2786.9	2609.9	2373.9	2115.3	2068.9	2112.8	2257.2	2360.1	2259.7
32.5°	3216.3	3227.6	3140.9	2981.5	2722.9	2448.0	2288.5	2296.1	2416.6	2528.3	2406.5
35°	3542.7	3551.5	3491.2	3355.6	3114.6	2795.7	2594.9	2591.1	2656.4	2770.6	2611.2
37.5°	3908.0	3916.8	3857.8	3736.0	3510.0	3193.7	2942.6	2937.6	2963.9	3056.8	2874.8
40°	4297.1	4313.5	4248.2	4145.2	3929.3	3661.9	3346.8	3301.6	3275.3	3384.5	3216.3
42.5°	4691.3	4716.4	4693.8	4590.9	4406.4	4185.4	3871.6	3801.3	3744.8	3881.6	3703.4
45°	5180.9	5211.1	5201.0	5121.9	4978.8	4799.3	4503.0	4421.4	4395.1	4521.9	4309.7
47.5°	5651.7	5684.3	5720.7	5703.2	5601.5	5518.6	5189.7	5143.3	5135.7	5271.3	4942.4
50°	6001.9	6032.1	6171.4	6271.8	6340.9	6323.3	6038.3	5969.3	5958.0	6044.6	5610.3
52.5°	6253.0	6281.9	6474.0	6787.8	7041.4	7179.5	6892.0	6876.9	6815.4	6785.3	6235.4
55°	6447.6	6487.8	6689.9	7164.4	7675.4	7981.7	7802.1	7748.2	7590.0	7416.7	6815.4
57.5°	6486.5	6502.8	6787.8	7428.0	8167.5	8663.3	8663.3	8569.2	8264.1	8024.3	7485.8
60°	6137.5	6187.7	6573.1	7406.7	8378.4	9109.0	9377.6	9312.4	8900.6	8605.6	8131.1
62.5°	5363.0	5419.4	5889.0	6895.8	8167.5	9200.6	9918.7	9908.7	9444.2	9086.4	8665.8
65°	4112.6	4154.0	4563.3	5768.4	7276.1	8847.9	10305.4	10333.0	9873.5	9404.0	8850.4
67.5°	2066.3	2095.2	2537.1	3940.6	5767.2	7832.3	10279.0	10402.0	10004.1	9235.8	8146.1
70°	721.8	750.7	959.1	1691.0	3510.0	5980.6	9390.2	9591.0	9237.0	7883.7	6009.5
72.5°	247.3	261.1	398.0	627.7	1365.8	3545.2	7140.6	7443.1	6809.1	5292.7	3453.5
75°	140.6	149.4	213.4	340.2	572.5	1166.2	4051.1	4236.9	3969.5	2884.8	1421.1
77.5°	95.4	102.9	133.1	193.3	316.4	375.4	1652.1	2080.2	1814.0	941.5	362.8
80°	56.5	61.5	81.6	114.2	161.9	145.6	354.0	470.8	606.3	281.2	109.2
82.5°	26.4	30.1	52.7	75.3	81.6	61.5	104.2	126.8	170.7	138.1	45.2
85°	0.0	0.0	17.6	31.4	30.1	17.6	28.9	31.4	46.4	69.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0	1401.0
2.5°	1406.0	1397.2	1407.3	1402.3	1407.3	1406.0	1396.0	1389.7	1389.7	1378.4	1374.6
5°	1423.6	1414.8	1417.3	1406.0	1403.5	1397.2	1384.7	1379.7	1379.7	1368.4	1364.6
7.5°	1462.5	1448.7	1446.2	1423.6	1413.5	1396.0	1373.4	1364.6	1363.3	1352.0	1348.3
10°	1524.0	1507.7	1496.4	1467.5	1438.7	1403.5	1355.8	1315.6	1293.0	1262.9	1260.4
12.5°	1599.3	1579.3	1561.7	1517.7	1470.0	1391.0	1250.4	1103.5	1013.1	941.5	946.6
15°	1683.5	1664.6	1637.0	1570.5	1472.6	1266.7	972.9	746.9	636.5	577.5	575.0
17.5°	1775.1	1747.5	1702.3	1611.9	1393.5	967.9	632.7	446.9	389.2	369.1	364.1
20°	1860.5	1826.6	1770.1	1620.7	1165.0	655.3	395.4	346.5	336.4	330.2	330.2
22.5°	1950.8	1908.2	1824.1	1552.9	866.2	419.3	336.4	325.1	317.6	308.8	307.6
25°	2042.5	1987.3	1873.0	1375.9	567.4	330.2	315.1	302.5	288.7	274.9	271.2
27.5°	2120.3	2048.8	1910.7	1112.3	364.1	297.5	287.5	266.1	247.3	232.2	229.7
30°	2213.2	2121.6	1927.0	813.5	286.2	262.4	247.3	224.7	202.1	187.1	182.0
32.5°	2337.5	2237.1	1901.9	529.8	253.6	231.0	207.1	180.8	158.2	141.9	139.3
35°	2530.8	2411.6	1786.4	337.7	229.7	199.6	170.7	143.1	124.3	111.7	109.2
37.5°	2766.8	2656.4	1596.8	253.6	205.9	173.2	139.3	113.0	99.2	90.4	87.9
40°	3117.1	2962.7	1362.1	222.2	182.0	146.9	114.2	92.9	82.9	75.3	72.8
42.5°	3571.5	3324.2	1092.2	202.1	159.4	123.0	92.9	76.6	67.8	62.8	61.5
45°	4102.6	3677.0	807.2	182.0	138.1	101.7	76.6	62.8	56.5	52.7	51.5
47.5°	4646.1	3985.8	557.4	160.7	118.0	84.1	64.0	54.0	49.0	43.9	42.7
50°	5226.1	4246.9	380.4	139.3	100.4	69.0	55.2	49.0	42.7	38.9	37.7
52.5°	5651.7	4343.6	264.9	120.5	85.4	59.0	49.0	43.9	38.9	33.9	32.6
55°	6044.6	4341.1	200.9	101.7	72.8	51.5	43.9	38.9	33.9	30.1	28.9
57.5°	6436.3	4307.2	158.2	86.6	62.8	46.4	38.9	33.9	31.4	26.4	25.1
60°	6689.9	4179.1	123.0	72.8	54.0	40.2	33.9	30.1	26.4	22.6	21.3
62.5°	6824.2	4000.9	94.2	57.7	43.9	35.2	30.1	26.4	22.6	18.8	17.6
65°	6642.2	3684.5	74.1	45.2	33.9	30.1	25.1	21.3	17.6	13.8	12.6
67.5°	5835.0	3107.0	57.7	36.4	26.4	22.6	21.3	17.6	12.6	10.0	8.8
70°	4123.9	2127.9	45.2	27.6	20.1	17.6	16.3	13.8	10.0	7.5	6.3
72.5°	2263.4	1073.3	32.6	20.1	15.1	13.8	12.6	11.3	8.8	6.3	6.3
75°	871.2	295.0	23.9	13.8	10.0	10.0	8.8	8.8	7.5	5.0	5.0
77.5°	227.2	87.9	15.1	8.8	6.3	6.3	6.3	5.0	5.0	3.8	3.8
80°	72.8	28.9	8.8	6.3	5.0	3.8	3.8	2.5	3.8	2.5	2.5
82.5°	23.9	10.0	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)