

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: P637288

Luminaire Tested: GWS-SA4C-740-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637288
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-SA4C-740-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14251 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

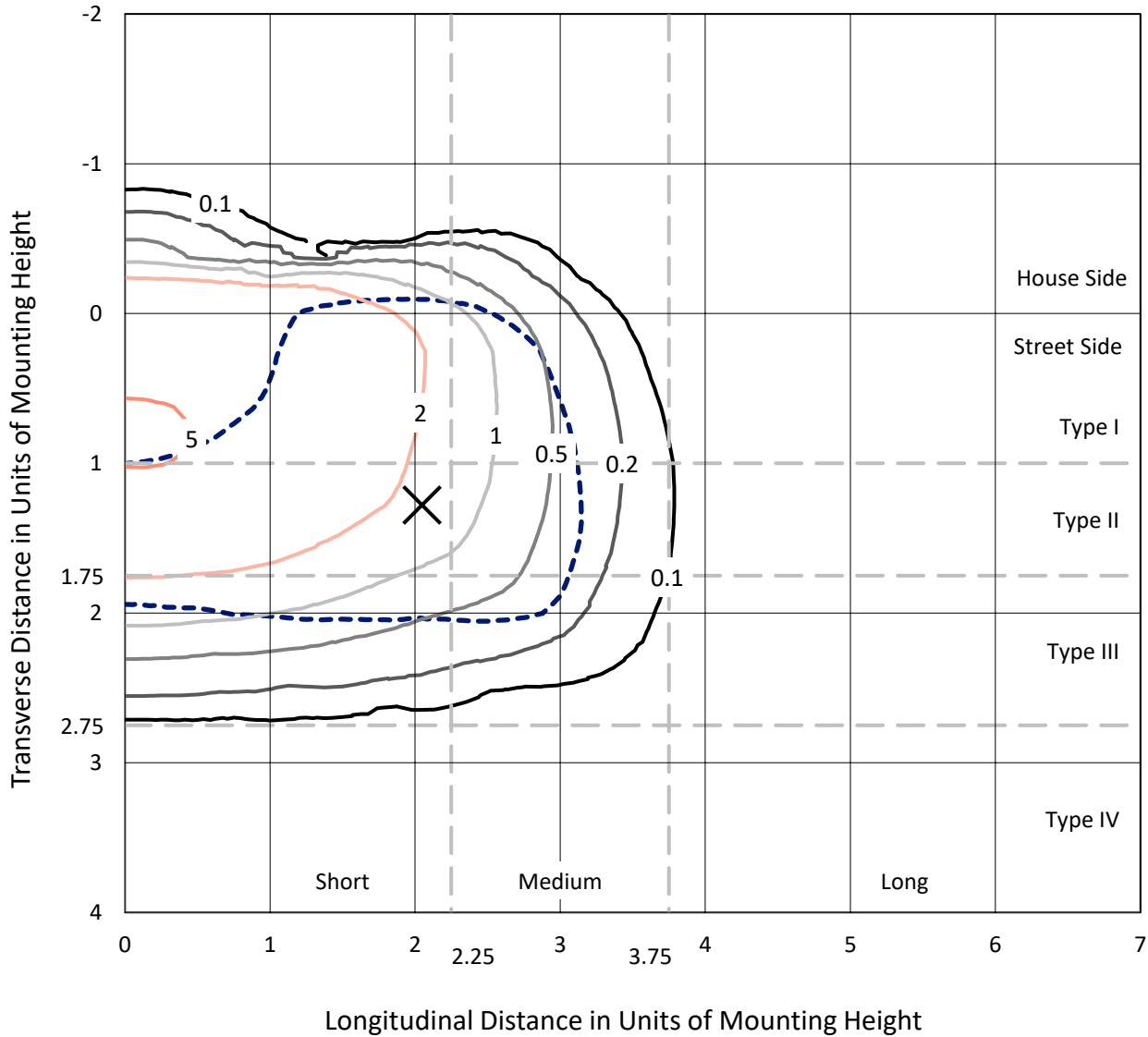
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

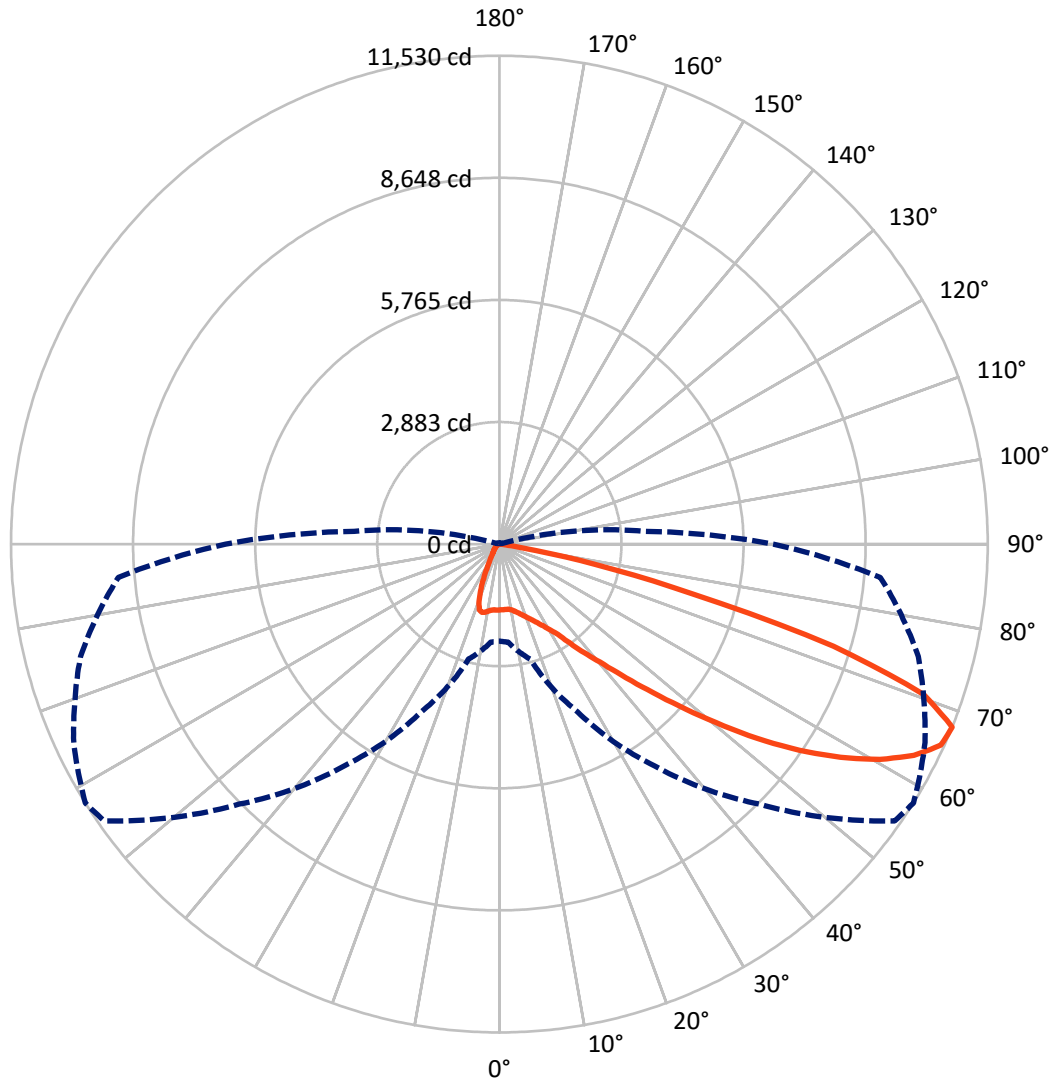
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	1554.8	0.0	1554.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	12696.3	0.0	12696.3
	% Fixture	89.1	0.0	89.1
Total	Lumens	14251.0	0.0	14251.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	1.0
10°-20°	409.6	2.9
20°-30°	714.9	5.0
30°-40°	1276.8	9.0
40°-50°	2333.8	16.4
50°-60°	3881.3	27.2
60°-70°	4215.7	29.6
70°-80°	1237.8	8.7
80°-90°	35.3	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°	14251.0	100.0
0°-180°	14251.0	100.0

Coefficient of Utilization



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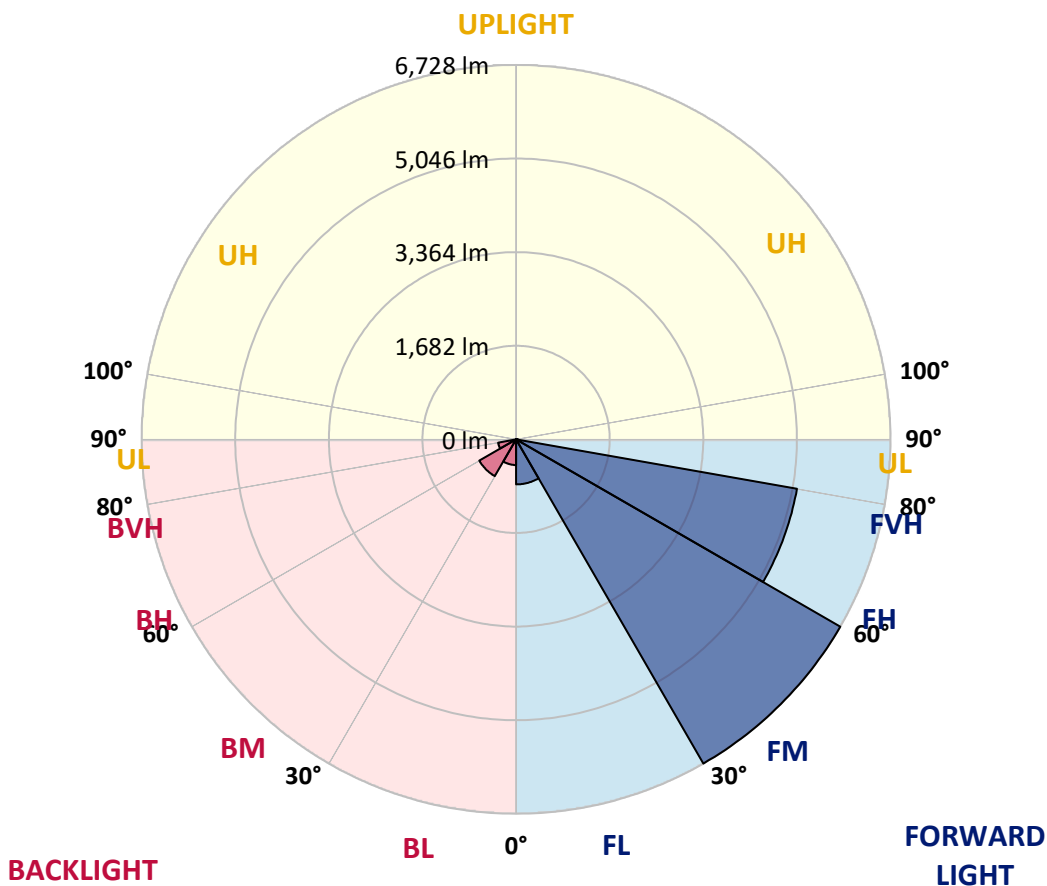
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.2	5.7			
FM (30°-60°)	6728.2	47.2			
FH (60°-80°)	5125.3	36.0			G3/7500
FVH (80°-90°)	33.5	0.2			G1/100
BL (0°-30°)	461.2	3.2	B1/500		
BM (30°-60°)	763.6	5.4	B1/1000		
BH (60°-80°)	328.2	2.3	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9
2.5°	1523.7	1520.9	1520.9	1532.1	1533.5	1539.0	1551.5	1552.9	1559.9	1557.1	1547.4
5°	1444.4	1445.8	1454.1	1473.6	1490.3	1511.2	1541.8	1548.8	1564.1	1572.4	1566.8
7.5°	1370.6	1372.0	1384.6	1415.2	1447.2	1488.9	1539.0	1552.9	1583.5	1605.8	1607.2
10°	1342.8	1341.4	1353.9	1388.7	1430.5	1488.9	1561.3	1579.4	1625.3	1664.3	1671.2
12.5°	1351.2	1349.8	1362.3	1394.3	1440.2	1514.0	1600.2	1625.3	1683.7	1743.6	1756.1
15°	1384.6	1383.2	1391.5	1418.0	1468.1	1544.6	1650.3	1687.9	1761.7	1834.0	1853.5
17.5°	1484.7	1477.8	1469.4	1472.2	1501.4	1580.8	1714.3	1760.3	1852.1	1938.4	1955.1
20°	1662.9	1644.8	1622.5	1593.3	1579.4	1633.6	1788.1	1841.0	1952.3	2051.1	2053.9
22.5°	1931.4	1924.5	1873.0	1788.1	1728.3	1729.7	1874.4	1935.6	2072.0	2180.5	2165.2
25°	2305.7	2301.6	2222.3	2083.1	1927.3	1874.4	1984.3	2046.9	2213.9	2329.4	2280.7
27.5°	2770.5	2741.3	2648.1	2460.2	2227.8	2062.2	2123.5	2179.1	2364.2	2472.7	2380.9
30°	3175.4	3176.8	3089.2	2893.0	2631.4	2344.7	2293.2	2341.9	2501.9	2616.1	2504.7
32.5°	3565.1	3577.6	3481.6	3304.9	3018.2	2713.5	2536.7	2545.1	2678.7	2802.5	2667.5
35°	3926.9	3936.6	3869.8	3719.5	3452.4	3098.9	2876.3	2872.1	2944.5	3071.1	2894.4
37.5°	4331.8	4341.5	4276.1	4141.2	3890.7	3540.0	3261.7	3256.2	3285.4	3388.3	3186.6
40°	4763.2	4781.3	4708.9	4594.8	4355.4	4059.1	3709.8	3659.7	3630.5	3751.5	3565.1
42.5°	5200.1	5227.9	5202.9	5088.8	4884.2	4639.3	4291.4	4213.5	4150.9	4302.6	4105.0
45°	5742.8	5776.2	5765.1	5677.4	5518.8	5319.8	4991.4	4900.9	4871.7	5012.2	4777.1
47.5°	6264.6	6300.8	6341.1	6321.7	6208.9	6117.1	5752.5	5701.0	5692.7	5843.0	5478.4
50°	6652.8	6686.2	6840.7	6952.0	7028.6	7009.1	6693.2	6616.7	6604.1	6700.2	6218.7
52.5°	6931.1	6963.2	7176.1	7523.9	7805.0	7958.1	7639.4	7622.7	7554.5	7521.2	6911.7
55°	7146.8	7191.4	7415.4	7941.4	8507.7	8847.3	8648.3	8588.4	8413.1	8221.1	7554.5
57.5°	7190.0	7208.1	7523.9	8233.6	9053.2	9602.9	9602.9	9498.5	9160.4	8894.6	8297.6
60°	6803.1	6858.8	7286.0	8210.0	9287.0	10096.8	10394.6	10322.3	9865.9	9538.9	9012.9
62.5°	5944.6	6007.2	6527.6	7643.6	9053.2	10198.4	10994.4	10983.2	10468.4	10071.8	9605.6
65°	4558.6	4604.5	5058.2	6394.0	8065.2	9807.4	11423.0	11453.6	10944.3	10423.9	9810.2
67.5°	2290.4	2322.4	2812.3	4368.0	6392.6	8681.7	11393.7	11530.1	11089.0	10237.4	9029.6
70°	800.1	832.1	1063.1	1874.4	3890.7	6629.2	10408.5	10631.2	10238.8	8738.7	6661.2
72.5°	274.1	289.4	441.1	695.8	1514.0	3929.6	7915.0	8250.3	7547.6	5866.6	3828.1
75°	155.8	165.6	236.6	377.1	634.5	1292.7	4490.4	4696.4	4400.0	3197.7	1575.2
77.5°	105.8	114.1	147.5	214.3	350.7	416.1	1831.2	2305.7	2010.7	1043.6	402.1
80°	62.6	68.2	90.4	126.6	179.5	161.4	392.4	521.8	672.1	311.7	121.1
82.5°	29.2	33.4	58.4	83.5	90.4	68.2	115.5	140.5	189.2	153.1	50.1
85°	0.0	0.0	19.5	34.8	33.4	19.5	32.0	34.8	51.5	76.5	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	2.8	4.2	8.3	15.3	8.3
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°	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9	1552.9
2.5°	1558.5	1548.8	1559.9	1554.3	1559.9	1558.5	1547.4	1540.4	1540.4	1527.9	1523.7
5°	1578.0	1568.2	1571.0	1558.5	1555.7	1548.8	1534.8	1529.3	1529.3	1516.8	1512.6
7.5°	1621.1	1605.8	1603.0	1578.0	1566.8	1547.4	1522.3	1512.6	1511.2	1498.7	1494.5
10°	1689.3	1671.2	1658.7	1626.7	1594.7	1555.7	1502.8	1458.3	1433.3	1399.9	1397.1
12.5°	1772.8	1750.5	1731.0	1682.3	1629.5	1541.8	1386.0	1223.1	1123.0	1043.6	1049.2
15°	1866.0	1845.2	1814.5	1740.8	1632.2	1404.0	1078.4	828.0	705.5	640.1	637.3
17.5°	1967.6	1937.0	1886.9	1786.7	1544.6	1072.9	701.3	495.4	431.4	409.1	403.5
20°	2062.2	2024.7	1962.0	1796.4	1291.3	726.4	438.3	384.1	372.9	366.0	366.0
22.5°	2162.4	2115.1	2021.9	1721.3	960.1	464.8	372.9	360.4	352.1	342.3	340.9
25°	2264.0	2202.8	2076.1	1525.1	629.0	366.0	349.3	335.4	320.0	304.7	300.6
27.5°	2350.3	2271.0	2117.9	1232.9	403.5	329.8	318.7	295.0	274.1	257.4	254.6
30°	2453.2	2351.7	2136.0	901.7	317.3	290.8	274.1	249.1	224.0	207.3	201.8
32.5°	2591.0	2479.7	2108.1	587.2	281.1	256.0	229.6	200.4	175.3	157.2	154.5
35°	2805.3	2673.1	1980.1	374.3	254.6	221.3	189.2	158.6	137.8	123.8	121.1
37.5°	3066.9	2944.5	1770.0	281.1	228.2	192.0	154.5	125.2	109.9	100.2	97.4
40°	3455.1	3284.0	1509.8	246.3	201.8	162.8	126.6	103.0	91.8	83.5	80.7
42.5°	3958.9	3684.7	1210.6	224.0	176.7	136.4	103.0	84.9	75.1	69.6	68.2
45°	4547.5	4075.8	894.7	201.8	153.1	112.7	84.9	69.6	62.6	58.4	57.1
47.5°	5150.0	4418.1	617.8	178.1	130.8	93.2	71.0	59.8	54.3	48.7	47.3
50°	5792.9	4707.5	421.6	154.5	111.3	76.5	61.2	54.3	47.3	43.1	41.7
52.5°	6264.6	4814.6	293.6	133.6	94.6	65.4	54.3	48.7	43.1	37.6	36.2
55°	6700.2	4811.9	222.6	112.7	80.7	57.1	48.7	43.1	37.6	33.4	32.0
57.5°	7134.3	4774.3	175.3	96.0	69.6	51.5	43.1	37.6	34.8	29.2	27.8
60°	7415.4	4632.4	136.4	80.7	59.8	44.5	37.6	33.4	29.2	25.0	23.7
62.5°	7564.3	4434.8	104.4	64.0	48.7	39.0	33.4	29.2	25.0	20.9	19.5
65°	7362.5	4084.1	82.1	50.1	37.6	33.4	27.8	23.7	19.5	15.3	13.9
67.5°	6467.8	3444.0	64.0	40.4	29.2	25.0	23.7	19.5	13.9	11.1	9.7
70°	4571.1	2358.6	50.1	30.6	22.3	19.5	18.1	15.3	11.1	8.3	7.0
72.5°	2508.9	1189.7	36.2	22.3	16.7	15.3	13.9	12.5	9.7	7.0	7.0
75°	965.7	327.0	26.4	15.3	11.1	11.1	9.7	9.7	8.3	5.6	5.6
77.5°	251.9	97.4	16.7	9.7	7.0	7.0	7.0	5.6	5.6	4.2	4.2
80°	80.7	32.0	9.7	7.0	5.6	4.2	4.2	2.8	4.2	2.8	2.8
82.5°	26.4	11.1	5.6	5.6	4.2	2.8	2.8	1.4	1.4	0.0	0.0
85°	9.7	5.6	4.2	2.8	2.8	2.8	1.4	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	2.8	2.8	1.4	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)