

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: P638058

Luminaire Tested: GWS-SA4E-722-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638058
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-SA4E-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16549 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

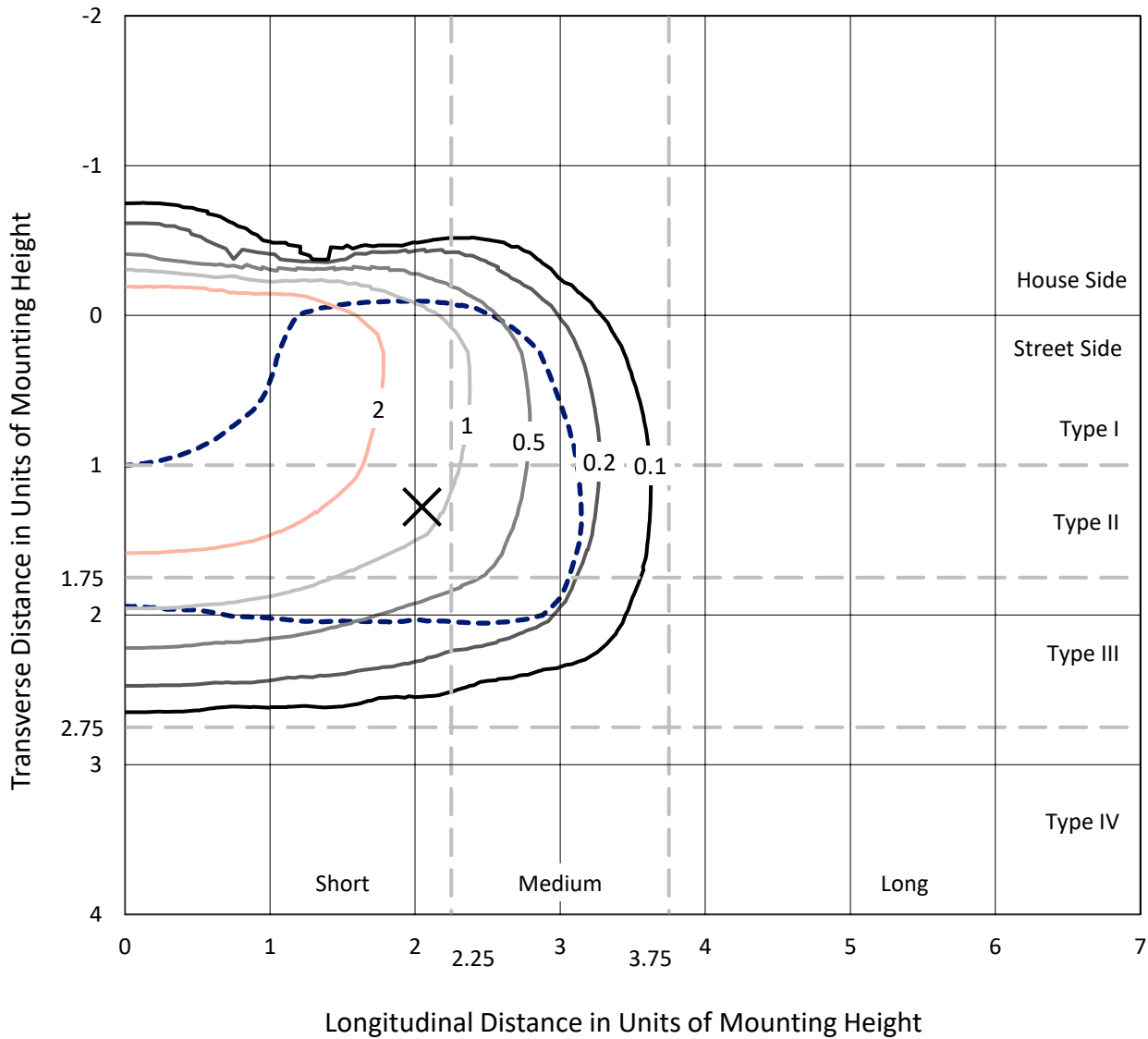
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

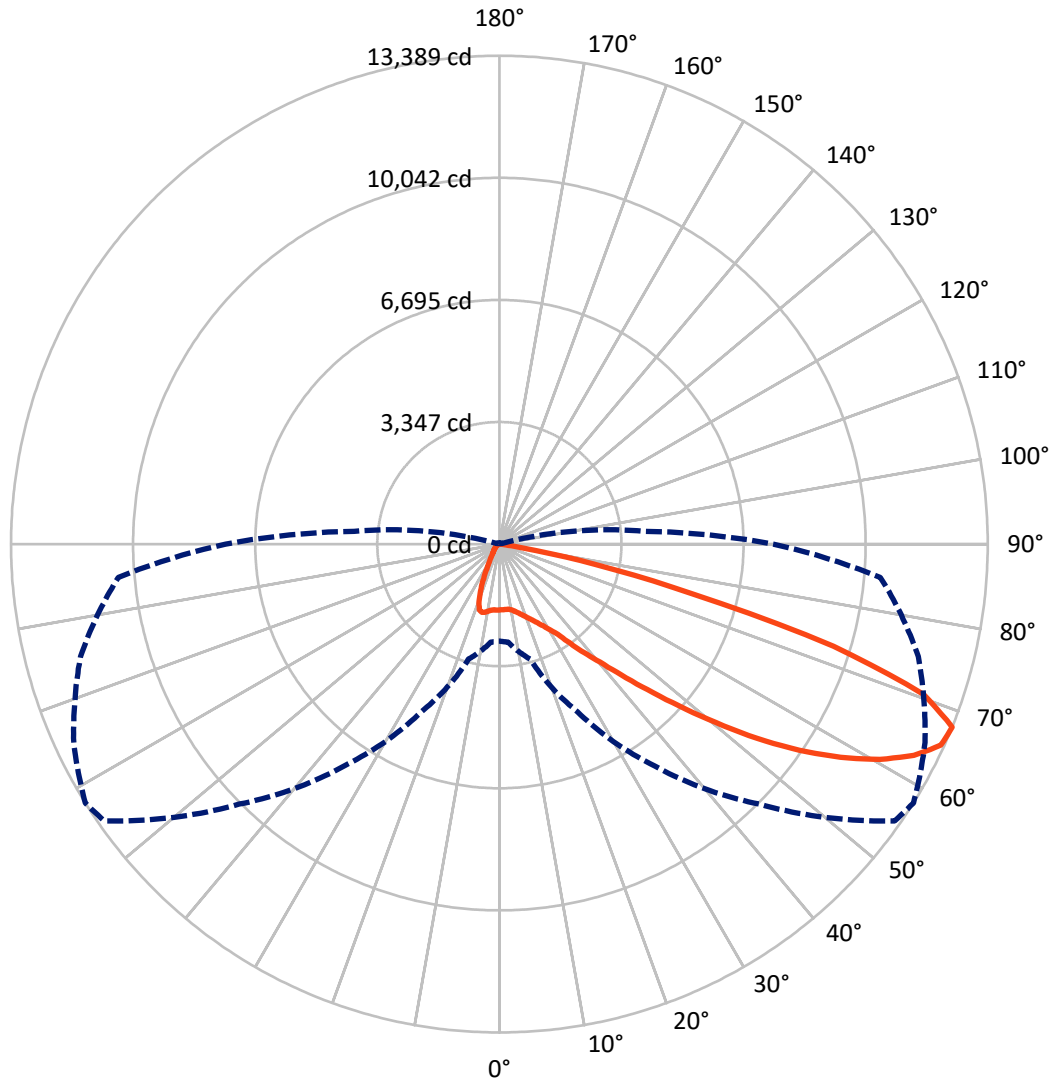
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1805.5	0.0	1805.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	14743.5	0.0	14743.5
	% Fixture	89.1	0.0	89.1
Total	Lumens	16549.0	0.0	16549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.0
10°-20°	475.6	2.9
20°-30°	830.2	5.0
30°-40°	1482.7	9.0
40°-50°	2710.1	16.4
50°-60°	4507.1	27.2
60°-70°	4895.5	29.6
70°-80°	1437.4	8.7
80°-90°	40.9	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°	16549.0	100.0
0°-180°	16549.0	100.0

Coefficient of Utilization



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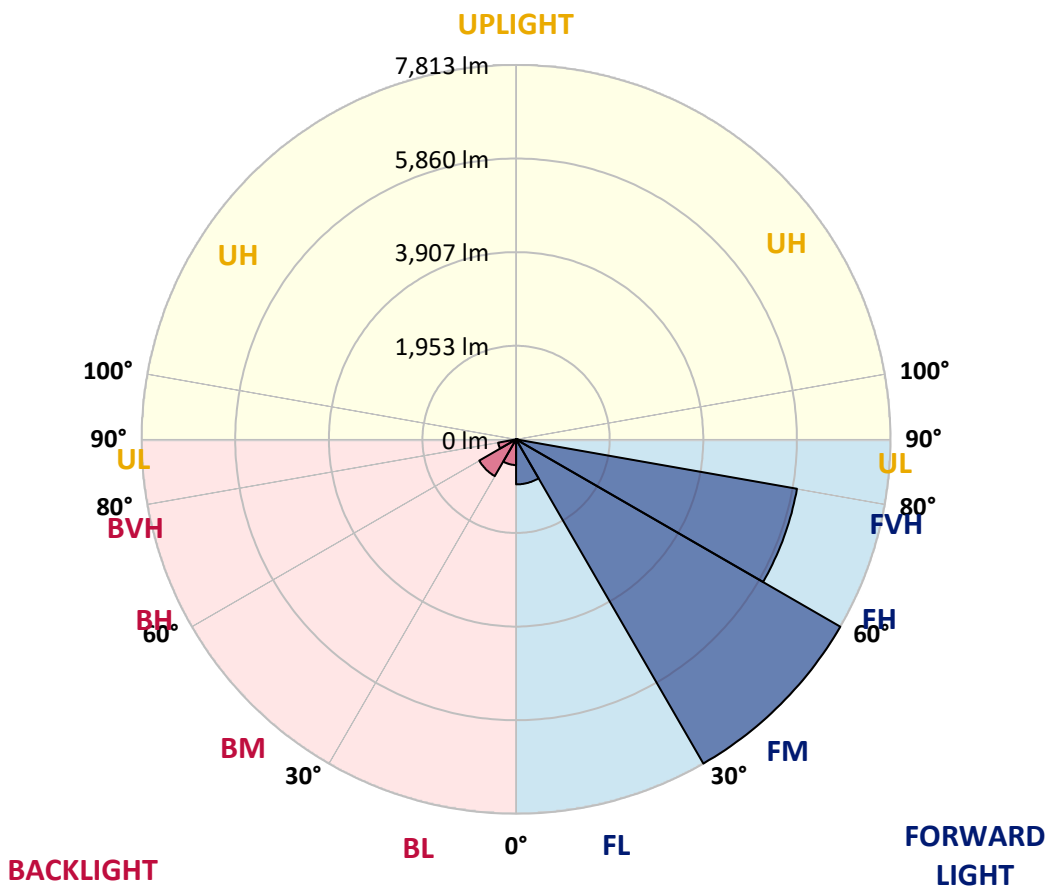
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.7	5.7			
FM (30°-60°)	7813.1	47.2			
FH (60°-80°)	5951.8	36.0			G3/7500
FVH (80°-90°)	38.9	0.2			G1/100
BL (0°-30°)	535.5	3.2	B2/1000		
BM (30°-60°)	886.8	5.4	B1/1000		
BH (60°-80°)	381.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3
2.5°	1769.4	1766.2	1766.2	1779.1	1780.7	1787.2	1801.7	1803.3	1811.4	1808.2	1796.9
5°	1677.3	1678.9	1688.6	1711.2	1730.6	1754.9	1790.4	1798.5	1816.3	1826.0	1819.5
7.5°	1591.7	1593.3	1607.8	1643.4	1680.5	1729.0	1787.2	1803.3	1838.9	1864.8	1866.4
10°	1559.3	1557.7	1572.3	1612.7	1661.1	1729.0	1813.0	1834.0	1887.4	1932.6	1940.7
12.5°	1569.0	1567.4	1582.0	1619.1	1672.5	1758.1	1858.3	1887.4	1955.2	2024.7	2039.3
15°	1607.8	1606.2	1615.9	1646.6	1704.8	1793.7	1916.5	1960.1	2045.7	2129.8	2152.4
17.5°	1724.2	1716.1	1706.4	1709.6	1743.6	1835.7	1990.8	2044.1	2150.8	2251.0	2270.3
20°	1931.0	1910.0	1884.1	1850.2	1834.0	1897.1	2076.4	2137.8	2267.1	2381.8	2385.1
22.5°	2242.9	2234.8	2175.0	2076.4	2007.0	2008.6	2176.6	2247.7	2406.1	2532.1	2514.3
25°	2677.5	2672.7	2580.6	2419.0	2238.0	2176.6	2304.3	2377.0	2570.9	2705.0	2648.5
27.5°	3217.3	3183.3	3075.1	2856.9	2587.1	2394.8	2465.9	2530.5	2745.4	2871.5	2764.8
30°	3687.5	3689.1	3587.3	3359.5	3055.7	2722.8	2663.0	2719.6	2905.4	3037.9	2908.6
32.5°	4139.9	4154.5	4043.0	3837.8	3504.9	3151.0	2945.8	2955.5	3110.6	3254.4	3097.7
35°	4560.1	4571.4	4493.8	4319.3	4009.1	3598.6	3340.1	3335.2	3419.2	3566.3	3361.1
37.5°	5030.3	5041.6	4965.7	4808.9	4518.1	4110.9	3787.7	3781.2	3815.1	3934.7	3700.4
40°	5531.2	5552.2	5468.2	5335.7	5057.8	4713.6	4308.0	4249.8	4215.9	4356.5	4139.9
42.5°	6038.6	6070.9	6041.9	5909.4	5671.8	5387.4	4983.4	4893.0	4820.2	4996.4	4766.9
45°	6668.8	6707.6	6694.7	6592.9	6408.7	6177.6	5796.2	5691.2	5657.3	5820.5	5547.4
47.5°	7274.8	7316.8	7363.7	7341.0	7210.2	7103.5	6680.1	6620.4	6610.7	6785.2	6361.8
50°	7725.6	7764.4	7943.8	8073.0	8161.9	8139.3	7772.5	7683.6	7669.1	7780.6	7221.5
52.5°	8048.8	8086.0	8333.2	8737.2	9063.6	9241.3	8871.3	8851.9	8772.7	8734.0	8026.2
55°	8299.3	8351.0	8611.1	9222.0	9879.6	10273.9	10042.8	9973.3	9769.7	9546.7	8772.7
57.5°	8349.4	8370.4	8737.2	9561.3	10513.1	11151.3	11151.3	11030.1	10637.5	10328.8	9635.6
60°	7900.1	7964.8	8460.9	9533.8	10784.5	11725.0	12070.8	11986.8	11456.7	11077.0	10466.2
62.5°	6903.1	6975.8	7580.2	8876.1	10513.1	11842.9	12767.2	12754.3	12156.4	11695.9	11154.6
65°	5293.7	5347.0	5873.8	7425.1	9365.8	11388.9	13264.9	13300.5	12709.1	12104.7	11392.1
67.5°	2659.8	2696.9	3265.7	5072.3	7423.5	10081.6	13231.0	13389.4	12877.1	11888.2	10485.6
70°	929.1	966.3	1234.5	2176.6	4518.1	7698.2	12086.9	12345.5	11889.8	10147.9	7735.3
72.5°	318.3	336.1	512.2	808.0	1758.1	4563.3	9191.3	9580.7	8764.7	6812.6	4445.3
75°	181.0	192.3	274.7	437.9	736.9	1501.2	5214.5	5453.7	5109.5	3713.3	1829.2
77.5°	122.8	132.5	171.3	248.8	407.2	483.2	2126.5	2677.5	2335.0	1211.9	467.0
80°	72.7	79.2	105.0	147.0	208.5	187.4	455.7	606.0	780.5	362.0	140.6
82.5°	33.9	38.8	67.9	97.0	105.0	79.2	134.1	163.2	219.8	177.7	58.2
85°	0.0	0.0	22.6	40.4	38.8	22.6	37.2	40.4	59.8	88.9	22.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8	9.7	17.8	9.7
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°	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3	1803.3
2.5°	1809.8	1798.5	1811.4	1805.0	1811.4	1809.8	1796.9	1788.8	1788.8	1774.3	1769.4
5°	1832.4	1821.1	1824.4	1809.8	1806.6	1798.5	1782.3	1775.9	1775.9	1761.3	1756.5
7.5°	1882.5	1864.8	1861.5	1832.4	1819.5	1796.9	1767.8	1756.5	1754.9	1740.3	1735.5
10°	1961.7	1940.7	1926.2	1889.0	1851.8	1806.6	1745.2	1693.5	1664.4	1625.6	1622.4
12.5°	2058.7	2032.8	2010.2	1953.6	1892.2	1790.4	1609.4	1420.4	1304.0	1211.9	1218.4
15°	2166.9	2142.7	2107.1	2021.5	1895.5	1630.4	1252.3	961.5	819.3	743.3	740.1
17.5°	2284.9	2249.3	2191.2	2074.8	1793.7	1245.9	814.4	575.3	500.9	475.1	468.6
20°	2394.8	2351.1	2278.4	2086.1	1499.6	843.5	509.0	446.0	433.1	425.0	425.0
22.5°	2511.1	2456.2	2347.9	1998.9	1115.0	539.7	433.1	418.5	408.8	397.5	395.9
25°	2629.1	2558.0	2410.9	1771.0	730.4	425.0	405.6	389.4	371.7	353.9	349.0
27.5°	2729.3	2637.2	2459.4	1431.7	468.6	383.0	370.0	342.6	318.3	298.9	295.7
30°	2848.8	2730.9	2480.4	1047.1	368.4	337.7	318.3	289.2	260.2	240.8	234.3
32.5°	3008.8	2879.5	2448.1	681.9	326.4	297.3	266.6	232.7	203.6	182.6	179.4
35°	3257.7	3104.1	2299.4	434.7	295.7	256.9	219.8	184.2	160.0	143.8	140.6
37.5°	3561.4	3419.2	2055.4	326.4	265.0	223.0	179.4	145.4	127.7	116.3	113.1
40°	4012.3	3813.5	1753.3	286.0	234.3	189.1	147.0	119.6	106.6	97.0	93.7
42.5°	4597.2	4278.9	1405.8	260.2	205.2	158.4	119.6	98.6	87.3	80.8	79.2
45°	5280.8	4733.0	1039.0	234.3	177.7	130.9	98.6	80.8	72.7	67.9	66.3
47.5°	5980.5	5130.5	717.5	206.8	151.9	108.3	82.4	69.5	63.0	56.6	54.9
50°	6727.0	5466.6	489.6	179.4	129.3	88.9	71.1	63.0	54.9	50.1	48.5
52.5°	7274.8	5591.0	341.0	155.1	109.9	75.9	63.0	56.6	50.1	43.6	42.0
55°	7780.6	5587.8	258.5	130.9	93.7	66.3	56.6	50.1	43.6	38.8	37.2
57.5°	8284.7	5544.2	203.6	111.5	80.8	59.8	50.1	43.6	40.4	33.9	32.3
60°	8611.1	5379.3	158.4	93.7	69.5	51.7	43.6	38.8	33.9	29.1	27.5
62.5°	8784.0	5149.9	121.2	74.3	56.6	45.2	38.8	33.9	29.1	24.2	22.6
65°	8549.7	4742.7	95.3	58.2	43.6	38.8	32.3	27.5	22.6	17.8	16.2
67.5°	7510.7	3999.4	74.3	46.9	33.9	29.1	27.5	22.6	16.2	12.9	11.3
70°	5308.2	2739.0	58.2	35.5	25.9	22.6	21.0	17.8	12.9	9.7	8.1
72.5°	2913.5	1381.6	42.0	25.9	19.4	17.8	16.2	14.5	11.3	8.1	8.1
75°	1121.4	379.7	30.7	17.8	12.9	12.9	11.3	11.3	9.7	6.5	6.5
77.5°	292.5	113.1	19.4	11.3	8.1	8.1	8.1	6.5	6.5	4.8	4.8
80°	93.7	37.2	11.3	8.1	6.5	4.8	4.8	3.2	4.8	3.2	3.2
82.5°	30.7	12.9	6.5	6.5	4.8	3.2	3.2	1.6	1.6	0.0	0.0
85°	11.3	6.5	4.8	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	6.5	3.2	3.2	3.2	3.2	1.6	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)