

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: P639708

Luminaire Tested: GWS-SA5C-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639708
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-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: 17242.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

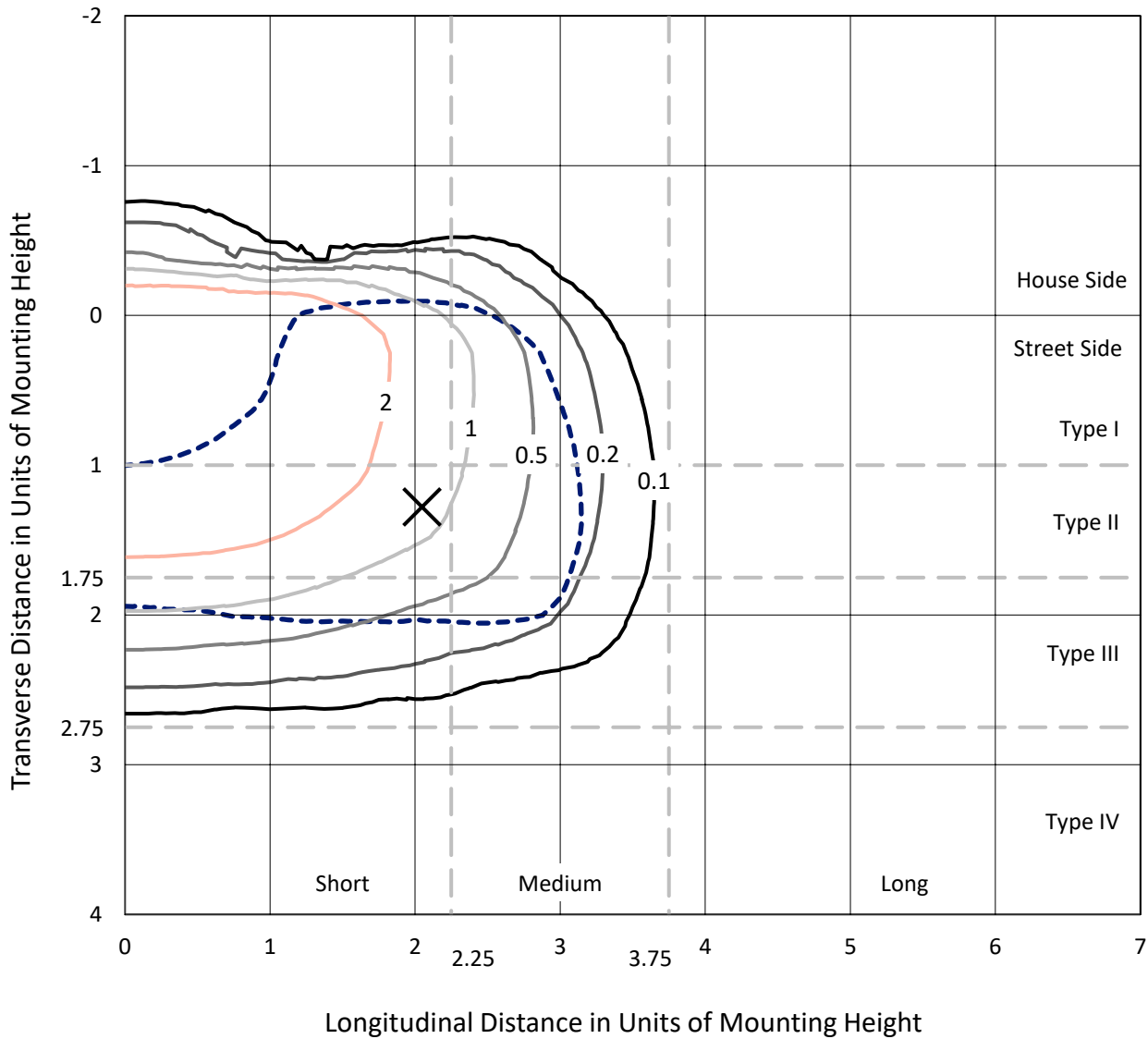
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

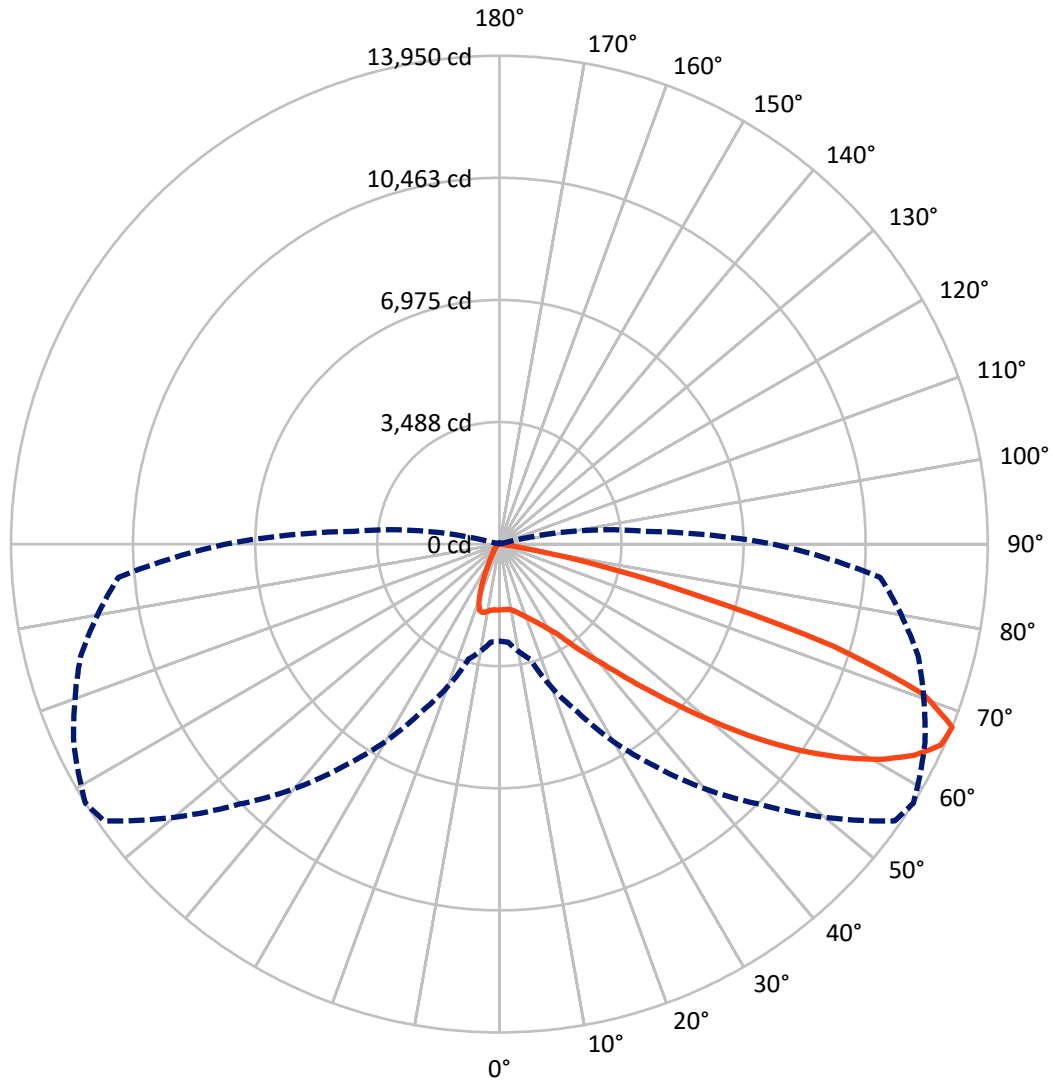
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1881.1	0.0	1881.1
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	15361.2	0.0	15361.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	17242.3	0.0	17242.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.0
10°-20°	495.6	2.9
20°-30°	865.0	5.0
30°-40°	1544.8	9.0
40°-50°	2823.6	16.4
50°-60°	4696.0	27.2
60°-70°	5100.6	29.6
70°-80°	1497.6	8.7
80°-90°	42.7	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°	17242.3	100.0
0°-180°	17242.3	100.0

Coefficient of Utilization



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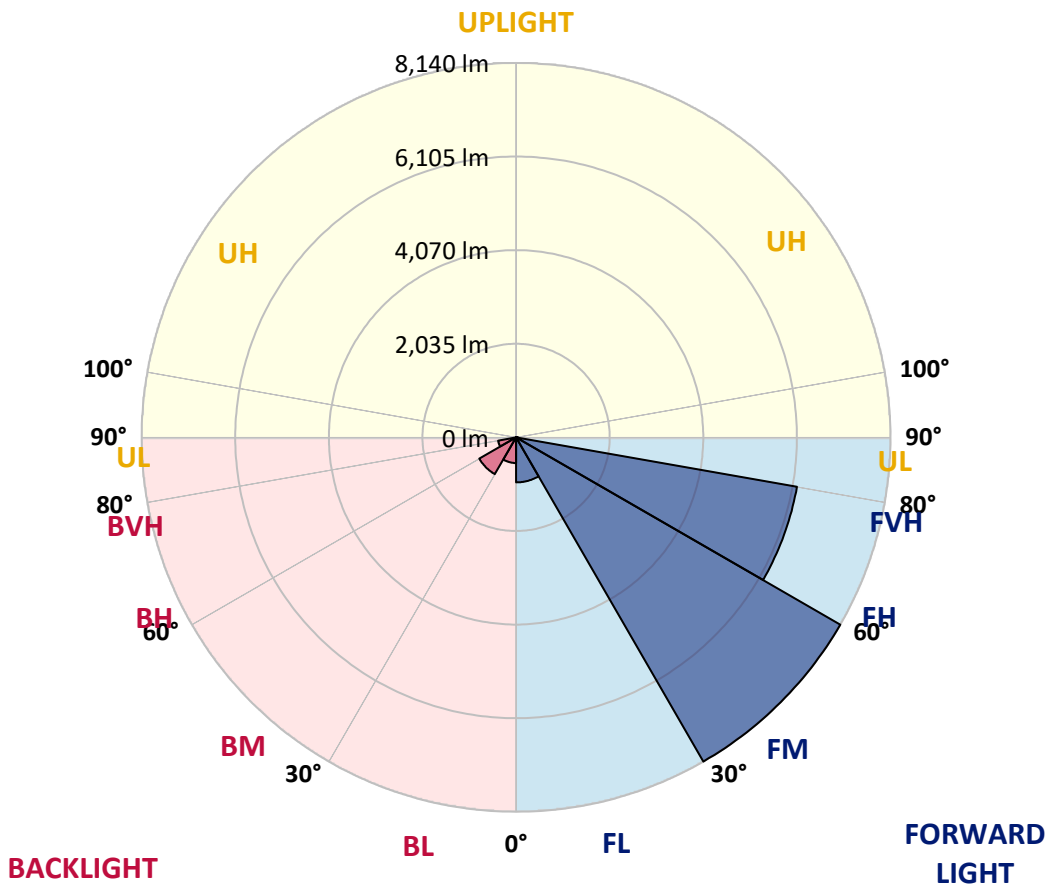
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.1	5.7			
FM (30°-60°)	8140.4	47.2			
FH (60°-80°)	6201.1	36.0			G3/7500
FVH (80°-90°)	40.6	0.2			G1/100
BL (0°-30°)	558.0	3.2	B2/1000		
BM (30°-60°)	923.9	5.4	B1/1000		
BH (60°-80°)	397.1	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	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°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1843.5	1840.2	1840.2	1853.6	1855.3	1862.1	1877.2	1878.9	1887.3	1883.9	1872.2
5°	1747.6	1749.3	1759.4	1782.9	1803.1	1828.4	1865.4	1873.8	1892.4	1902.5	1895.7
7.5°	1658.3	1660.0	1675.2	1712.2	1750.9	1801.5	1862.1	1878.9	1915.9	1942.9	1944.6
10°	1624.7	1623.0	1638.1	1680.2	1730.7	1801.5	1889.0	1910.9	1966.4	2013.6	2022.0
12.5°	1634.8	1633.1	1648.2	1687.0	1742.5	1831.8	1936.1	1966.4	2037.2	2109.5	2124.7
15°	1675.2	1673.5	1683.6	1715.6	1776.2	1868.8	1996.7	2042.2	2131.4	2219.0	2242.6
17.5°	1796.4	1788.0	1777.9	1781.2	1816.6	1912.6	2074.2	2129.8	2240.9	2345.3	2365.5
20°	2011.9	1990.0	1963.1	1927.7	1910.9	1976.5	2163.4	2227.4	2362.1	2481.6	2485.0
22.5°	2336.8	2328.4	2266.1	2163.4	2091.0	2092.7	2267.8	2341.9	2506.9	2638.2	2619.7
25°	2789.7	2784.7	2688.7	2520.3	2331.8	2267.8	2400.8	2476.6	2678.6	2818.3	2759.4
27.5°	3352.0	3316.7	3203.9	2976.6	2695.4	2495.1	2569.2	2636.5	2860.4	2991.8	2880.6
30°	3842.0	3843.7	3737.6	3500.2	3183.7	2836.9	2774.6	2833.5	3027.1	3165.2	3030.5
32.5°	4313.4	4328.5	4212.4	3998.5	3651.7	3283.0	3069.2	3079.3	3240.9	3390.8	3227.5
35°	4751.1	4762.9	4682.1	4500.3	4177.0	3749.4	3480.0	3474.9	3562.5	3715.7	3501.9
37.5°	5241.0	5252.8	5173.7	5010.4	4707.3	4283.1	3946.4	3939.6	3975.0	4099.6	3855.4
40°	5763.0	5784.8	5697.3	5559.2	5269.7	4911.1	4488.5	4427.9	4392.5	4539.0	4313.4
42.5°	6291.6	6325.3	6295.0	6156.9	5909.4	5613.1	5192.2	5097.9	5022.2	5205.7	4966.6
45°	6948.2	6988.6	6975.1	6869.1	6677.2	6436.4	6039.1	5929.6	5894.3	6064.3	5779.8
47.5°	7579.6	7623.3	7672.2	7648.6	7512.2	7401.1	6960.0	6897.7	6887.6	7069.4	6628.3
50°	8049.3	8089.7	8276.6	8411.3	8503.9	8480.3	8098.1	8005.5	7990.4	8106.5	7524.0
52.5°	8386.0	8424.7	8682.3	9103.2	9443.3	9628.5	9243.0	9222.8	9140.3	9099.8	8362.4
55°	8647.0	8700.8	8971.9	9608.3	10293.5	10704.3	10463.6	10391.2	10179.0	9946.7	9140.3
57.5°	8699.2	8721.0	9103.2	9961.9	10953.5	11618.5	11618.5	11492.2	11083.1	10761.6	10039.3
60°	8231.1	8298.5	8815.3	9933.2	11236.3	12216.2	12576.5	12488.9	11936.7	11541.1	10904.7
62.5°	7192.3	7268.1	7897.8	9248.0	10953.5	12339.1	13302.1	13288.6	12665.7	12185.9	11621.9
65°	5515.5	5571.0	6119.9	7736.1	9758.1	11866.0	13820.7	13857.7	13241.5	12611.8	11869.4
67.5°	2771.2	2809.9	3402.6	5284.8	7734.5	10504.0	13785.3	13950.3	13416.6	12386.2	10924.9
70°	968.1	1006.8	1286.3	2267.8	4707.3	8020.7	12593.3	12862.7	12387.9	10573.0	8059.4
72.5°	331.7	350.2	533.7	841.8	1831.8	4754.5	9576.3	9982.1	9131.8	7098.0	4631.6
75°	188.6	200.3	286.2	456.3	767.7	1564.1	5433.0	5682.1	5323.5	3868.9	1905.8
77.5°	128.0	138.1	178.5	259.3	424.3	503.4	2215.6	2789.7	2432.8	1262.7	486.6
80°	75.8	82.5	109.4	153.2	217.2	195.3	474.8	631.3	813.2	377.1	146.5
82.5°	35.4	40.4	70.7	101.0	109.4	82.5	139.7	170.0	229.0	185.2	60.6
85°	0.0	0.0	23.6	42.1	40.4	23.6	38.7	42.1	62.3	92.6	23.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1	10.1	18.5	10.1
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°	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9	1878.9
2.5°	1885.6	1873.8	1887.3	1880.6	1887.3	1885.6	1872.2	1863.7	1863.7	1848.6	1843.5
5°	1909.2	1897.4	1900.8	1885.6	1882.3	1873.8	1857.0	1850.3	1850.3	1835.1	1830.1
7.5°	1961.4	1942.9	1939.5	1909.2	1895.7	1872.2	1841.9	1830.1	1828.4	1813.2	1808.2
10°	2043.9	2022.0	2006.8	1968.1	1929.4	1882.3	1818.3	1764.4	1734.1	1693.7	1690.3
12.5°	2144.9	2118.0	2094.4	2035.5	1971.5	1865.4	1676.9	1479.9	1358.7	1262.7	1269.4
15°	2257.7	2232.5	2195.4	2106.2	1974.9	1698.8	1304.8	1001.7	853.6	774.5	771.1
17.5°	2380.6	2343.6	2283.0	2161.7	1868.8	1298.1	848.5	599.4	521.9	495.0	488.2
20°	2495.1	2449.6	2373.9	2173.5	1562.4	878.8	530.3	464.7	451.2	442.8	442.8
22.5°	2616.3	2559.1	2446.3	2082.6	1161.7	562.3	451.2	436.1	426.0	414.2	412.5
25°	2739.2	2665.1	2511.9	1845.2	761.0	442.8	422.6	405.7	387.2	368.7	363.7
27.5°	2843.6	2747.6	2562.4	1491.7	488.2	399.0	385.5	356.9	331.7	311.5	308.1
30°	2968.2	2845.3	2584.3	1091.0	383.9	351.9	331.7	301.4	271.1	250.9	244.1
32.5°	3134.9	3000.2	2550.7	710.5	340.1	309.8	277.8	242.4	212.1	190.2	186.9
35°	3394.1	3234.2	2395.8	452.9	308.1	267.7	229.0	191.9	166.7	149.8	146.5
37.5°	3710.7	3562.5	2141.5	340.1	276.1	232.3	186.9	151.5	133.0	121.2	117.9
40°	4180.4	3973.3	1826.7	298.0	244.1	197.0	153.2	124.6	111.1	101.0	97.6
42.5°	4789.8	4458.2	1464.7	271.1	213.8	165.0	124.6	102.7	90.9	84.2	82.5
45°	5502.0	4931.3	1082.6	244.1	185.2	136.4	102.7	84.2	75.8	70.7	69.0
47.5°	6231.0	5345.4	747.5	215.5	158.3	112.8	85.9	72.4	65.7	58.9	57.2
50°	7008.8	5695.6	510.1	186.9	134.7	92.6	74.1	65.7	57.2	52.2	50.5
52.5°	7579.6	5825.2	355.2	161.6	114.5	79.1	65.7	58.9	52.2	45.5	43.8
55°	8106.5	5821.9	269.4	136.4	97.6	69.0	58.9	52.2	45.5	40.4	38.7
57.5°	8631.8	5776.4	212.1	116.2	84.2	62.3	52.2	45.5	42.1	35.4	33.7
60°	8971.9	5604.7	165.0	97.6	72.4	53.9	45.5	40.4	35.4	30.3	28.6
62.5°	9152.0	5365.6	126.3	77.4	58.9	47.1	40.4	35.4	30.3	25.3	23.6
65°	8907.9	4941.4	99.3	60.6	45.5	40.4	33.7	28.6	23.6	18.5	16.8
67.5°	7825.4	4166.9	77.4	48.8	35.4	30.3	28.6	23.6	16.8	13.5	11.8
70°	5530.6	2853.7	60.6	37.0	26.9	23.6	21.9	18.5	13.5	10.1	8.4
72.5°	3035.5	1439.5	43.8	26.9	20.2	18.5	16.8	15.2	11.8	8.4	8.4
75°	1168.4	395.6	32.0	18.5	13.5	13.5	11.8	11.8	10.1	6.7	6.7
77.5°	304.7	117.9	20.2	11.8	8.4	8.4	8.4	6.7	6.7	5.1	5.1
80°	97.6	38.7	11.8	8.4	6.7	5.1	5.1	3.4	5.1	3.4	3.4
82.5°	32.0	13.5	6.7	6.7	5.1	3.4	3.4	1.7	1.7	0.0	0.0
85°	11.8	6.7	5.1	3.4	3.4	3.4	1.7	0.0	0.0	0.0	0.0
87.5°	6.7	3.4	3.4	3.4	3.4	1.7	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)