

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: P636742

Luminaire Tested: GWS-SA4B-735-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11175.5 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

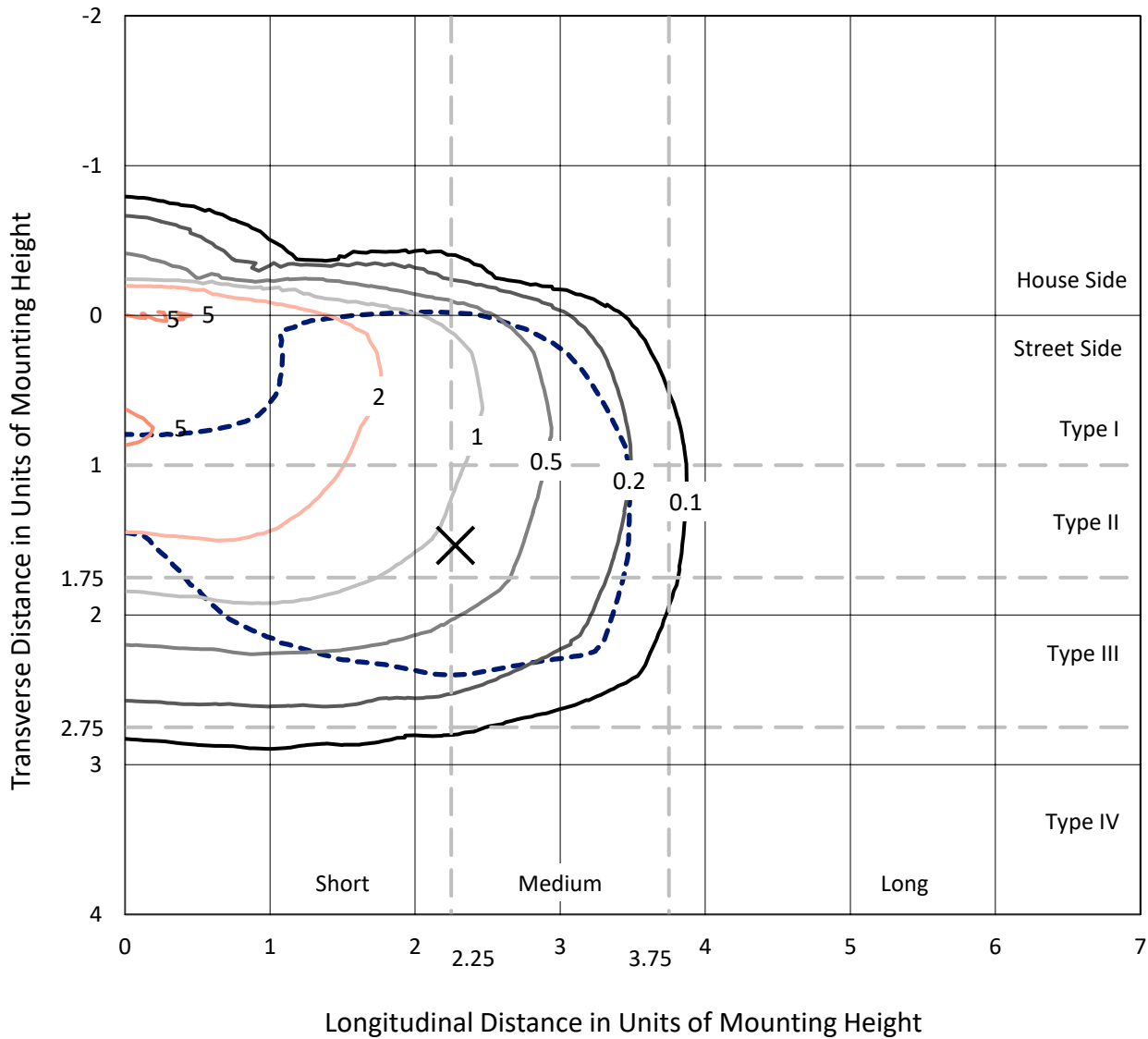
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

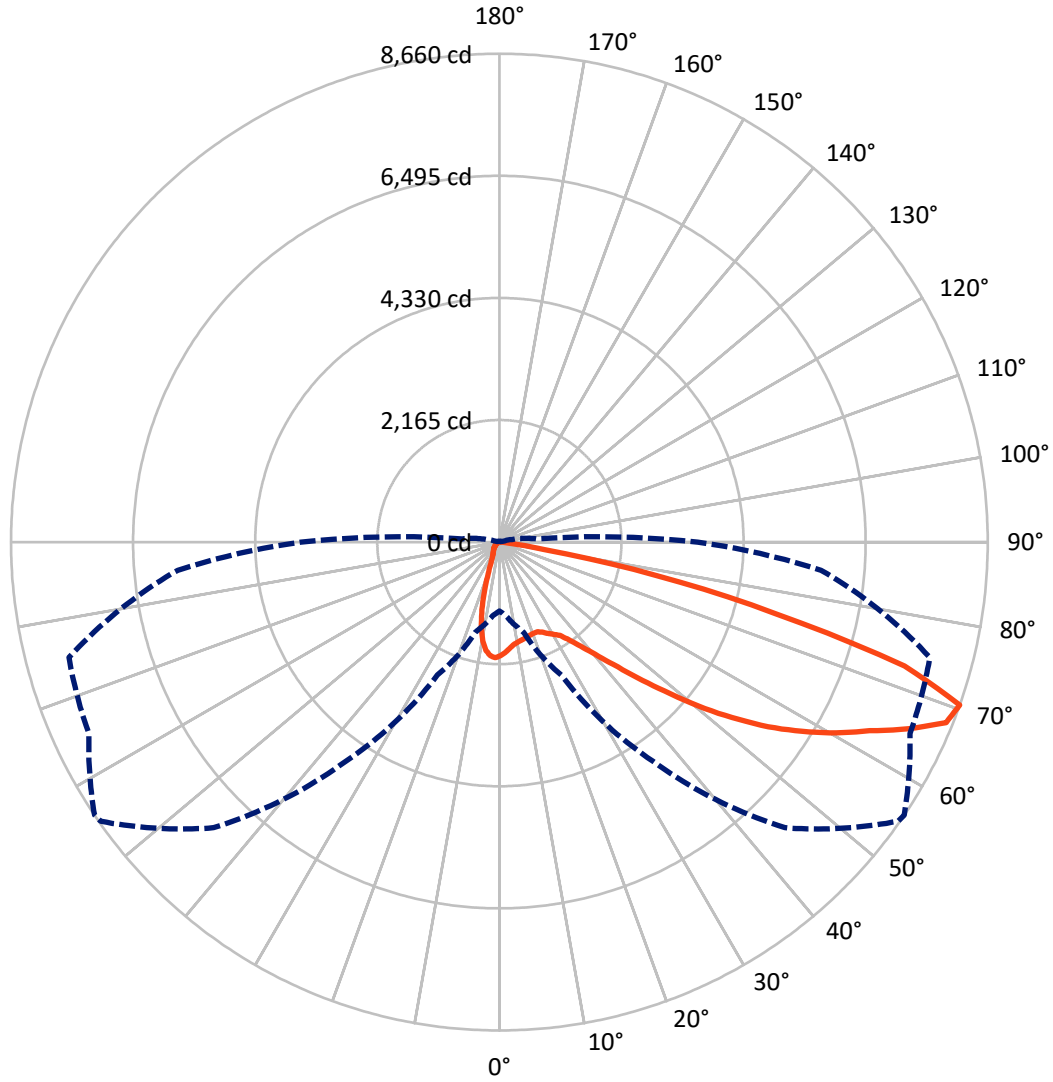
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1003.8	0.0	1003.8
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	10171.7	0.0	10171.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	11175.5	0.0	11175.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	1.5
10°-20°	389.1	3.5
20°-30°	616.4	5.5
30°-40°	1062.9	9.5
40°-50°	1794.9	16.1
50°-60°	2637.3	23.6
60°-70°	3126.7	28.0
70°-80°	1333.3	11.9
80°-90°	41.9	0.4
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°	11175.5	100.0
0°-180°	11175.5	100.0

Coefficient of Utilization



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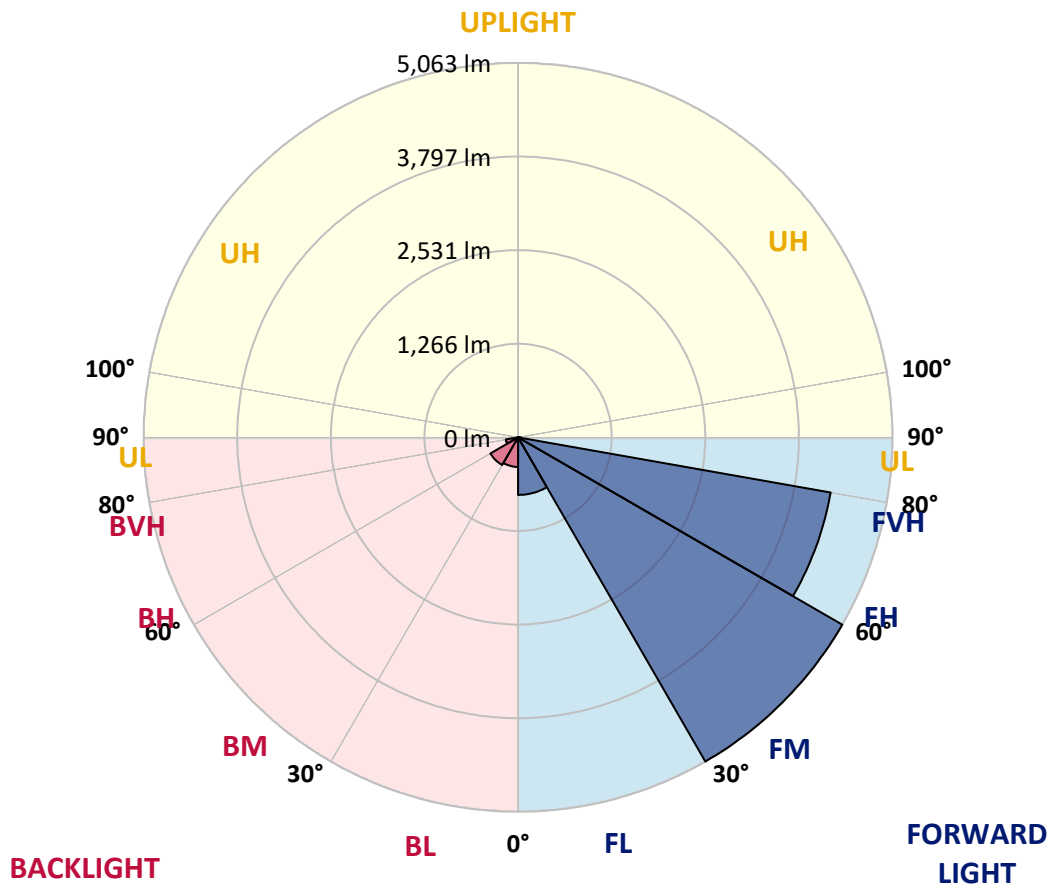
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.7	7.0			
FM (30°-60°)	5062.8	45.3			
FH (60°-80°)	4292.6	38.4			G2/5000
FVH (80°-90°)	37.6	0.3			G1/100
BL (0°-30°)	399.8	3.6	B1/500		
BM (30°-60°)	432.3	3.9	B1/1000		
BH (60°-80°)	167.4	1.5	B1/500		G1/500
BVH (80°-90°)	4.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1
2.5°	1875.9	1872.8	1874.9	1890.2	1918.9	1932.2	1954.7	1958.8	1977.2	2000.7	2009.9
5°	1754.1	1743.9	1749.0	1770.5	1803.2	1840.1	1882.0	1893.3	1939.3	1991.5	2030.4
7.5°	1642.5	1631.3	1643.6	1677.3	1723.4	1763.3	1825.7	1832.9	1906.6	1998.7	2069.3
10°	1467.5	1470.6	1495.2	1554.5	1625.1	1708.0	1792.0	1802.2	1893.3	2022.2	2131.7
12.5°	1333.5	1326.3	1352.9	1420.5	1519.7	1640.5	1766.4	1779.7	1894.3	2058.0	2211.5
15°	1271.1	1269.0	1280.3	1329.4	1425.6	1567.8	1742.8	1760.2	1907.6	2090.8	2287.3
17.5°	1273.1	1270.0	1269.0	1297.7	1369.3	1513.6	1717.2	1739.8	1918.9	2126.6	2367.1
20°	1362.1	1347.8	1322.2	1308.9	1351.9	1478.8	1699.9	1725.4	1935.2	2164.5	2452.0
22.5°	1548.4	1553.5	1484.9	1413.3	1392.8	1482.9	1697.8	1727.5	1971.0	2223.8	2556.4
25°	1920.9	1912.7	1785.8	1625.1	1513.6	1530.0	1733.6	1769.4	2041.7	2308.8	2654.7
27.5°	2387.6	2394.7	2220.8	1964.9	1731.6	1627.2	1799.1	1834.9	2123.5	2362.0	2720.2
30°	2896.2	2889.0	2702.8	2419.3	2040.6	1788.9	1864.6	1896.3	2164.5	2390.6	2787.7
32.5°	3377.2	3360.8	3176.6	2879.8	2434.6	2043.7	1954.7	1973.1	2218.7	2453.1	2878.8
35°	3787.6	3786.5	3625.9	3309.6	2839.9	2363.0	2109.2	2124.6	2320.0	2552.3	3012.9
37.5°	4211.3	4196.9	4016.8	3728.2	3256.4	2713.0	2345.6	2339.5	2479.7	2698.7	3177.6
40°	4559.2	4550.0	4411.8	4134.5	3689.3	3099.8	2632.2	2613.7	2669.0	2901.3	3406.9
42.5°	4817.1	4818.1	4775.1	4606.3	4147.8	3547.1	2992.4	2963.7	2962.7	3207.3	3709.8
45°	5012.6	5025.9	5090.3	5064.8	4689.2	4068.0	3453.9	3424.3	3374.1	3604.4	4056.7
47.5°	5103.6	5121.0	5315.5	5417.8	5163.0	4584.8	4003.5	3941.1	3842.8	4132.4	4444.6
50°	5094.4	5125.1	5396.3	5707.4	5592.8	5108.8	4602.2	4572.5	4411.8	4691.2	4828.4
52.5°	4885.7	4951.2	5401.5	5883.5	5923.4	5591.8	5221.3	5166.1	5088.3	5274.6	5188.6
55°	4318.7	4398.5	5185.5	5939.8	6181.3	6013.4	5827.2	5782.2	5653.2	5825.1	5502.8
57.5°	4010.7	4079.2	4731.1	5912.1	6400.3	6403.4	6366.5	6329.7	6223.2	6369.6	5871.2
60°	3825.4	3894.0	4488.6	5810.8	6598.8	6814.8	6873.1	6869.0	6715.5	6988.7	6303.1
62.5°	3554.2	3648.4	4235.8	5547.8	6740.0	7220.0	7396.0	7368.4	7197.5	7633.5	6730.8
65°	3006.7	3088.6	3718.0	5113.9	6657.2	7555.7	7963.0	7977.3	7779.8	8240.3	7068.6
67.5°	2108.2	2168.6	2793.9	4203.1	6094.3	7666.2	8543.3	8542.2	8205.5	8551.4	6919.1
70°	1221.9	1304.8	1650.7	2598.4	4741.4	7163.7	8630.2	8659.9	8032.6	7901.6	5725.9
72.5°	472.8	541.4	935.4	1380.6	2472.5	5487.4	7423.7	7510.7	6722.6	6095.3	3985.1
75°	141.2	157.6	440.1	734.8	992.7	2650.6	5025.9	5050.4	4611.4	3801.9	2042.7
77.5°	105.4	116.7	192.4	371.5	348.0	803.4	2600.4	2839.9	2447.9	1358.0	562.9
80°	71.6	84.9	137.1	181.1	128.9	213.9	730.7	802.3	747.1	305.0	141.2
82.5°	31.7	40.9	97.2	91.1	47.1	61.4	225.1	239.5	154.5	92.1	49.1
85°	3.1	4.1	36.8	39.9	17.4	14.3	47.1	47.1	33.8	31.7	20.5
87.5°	0.0	0.0	1.0	2.0	2.0	3.1	4.1	5.1	6.1	8.2	10.2
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°	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1	2015.1
2.5°	2033.5	2021.2	2036.5	2048.8	2051.9	2029.4	2016.1	1996.6	1992.5	1993.6	1988.4
5°	2061.1	2055.0	2066.2	2052.9	2018.1	1952.6	1896.3	1833.9	1800.1	1780.7	1778.7
7.5°	2112.3	2109.2	2096.9	2036.5	1928.1	1782.7	1642.5	1505.4	1420.5	1389.8	1384.6
10°	2188.0	2181.9	2131.7	1988.4	1757.2	1477.8	1242.4	1045.9	926.2	891.4	848.4
12.5°	2275.0	2262.7	2153.2	1885.1	1499.3	1112.4	818.7	598.7	495.3	464.6	464.6
15°	2358.9	2332.3	2140.9	1714.2	1182.0	723.5	457.5	345.9	314.2	306.0	306.0
17.5°	2444.9	2393.7	2092.8	1480.8	816.7	427.8	305.0	283.5	279.4	280.4	281.4
20°	2525.7	2445.9	2007.9	1200.4	520.9	298.8	273.2	268.1	266.1	268.1	267.1
22.5°	2613.7	2494.0	1878.9	894.4	338.7	269.2	259.9	255.8	253.8	256.9	256.9
25°	2700.7	2528.8	1708.0	601.8	269.2	250.7	245.6	241.5	239.5	240.5	240.5
27.5°	2745.8	2515.5	1483.9	383.8	241.5	232.3	227.2	222.1	219.0	218.0	219.0
30°	2776.5	2474.6	1209.6	273.2	219.0	207.7	202.6	198.5	190.4	185.2	187.3
32.5°	2824.6	2433.6	911.8	229.2	200.6	183.2	175.0	164.8	153.5	148.4	148.4
35°	2881.9	2377.3	639.6	206.7	181.1	162.7	147.4	130.0	116.7	112.6	112.6
37.5°	2957.6	2324.1	425.7	191.4	164.8	145.3	123.8	103.4	89.0	87.0	86.0
40°	3071.2	2279.1	299.9	180.1	150.4	126.9	101.3	79.8	69.6	66.5	66.5
42.5°	3218.6	2233.0	237.4	168.9	138.2	109.5	80.8	63.5	55.3	53.2	52.2
45°	3400.7	2178.8	206.7	158.6	125.9	91.1	64.5	53.2	47.1	45.0	45.0
47.5°	3598.2	2105.1	192.4	145.3	111.5	73.7	54.2	46.1	43.0	42.0	40.9
50°	3792.7	2005.8	180.1	133.0	95.2	60.4	47.1	42.0	39.9	38.9	38.9
52.5°	3962.6	1890.2	164.8	118.7	77.8	52.2	42.0	38.9	36.8	34.8	33.8
55°	4107.9	1764.3	145.3	102.3	63.5	46.1	38.9	35.8	33.8	31.7	30.7
57.5°	4295.2	1692.7	116.7	82.9	52.2	40.9	35.8	32.7	30.7	27.6	27.6
60°	4502.9	1640.5	87.0	65.5	45.0	37.9	32.7	29.7	27.6	24.6	24.6
62.5°	4669.7	1562.7	68.6	53.2	38.9	33.8	29.7	26.6	24.6	21.5	21.5
65°	4733.2	1402.0	56.3	42.0	31.7	29.7	26.6	24.6	21.5	18.4	18.4
67.5°	4446.6	1080.7	47.1	33.8	26.6	25.6	23.5	22.5	18.4	16.4	15.4
70°	3521.5	659.1	38.9	27.6	22.5	21.5	21.5	19.4	16.4	15.4	14.3
72.5°	2413.2	339.8	31.7	22.5	19.4	19.4	18.4	17.4	15.4	14.3	14.3
75°	1253.7	113.6	24.6	17.4	15.4	16.4	16.4	15.4	14.3	14.3	13.3
77.5°	359.2	51.2	18.4	13.3	12.3	12.3	13.3	13.3	13.3	12.3	12.3
80°	93.1	29.7	13.3	10.2	10.2	10.2	10.2	11.3	12.3	11.3	11.3
82.5°	37.9	16.4	9.2	8.2	8.2	8.2	8.2	9.2	10.2	10.2	10.2
85°	23.5	8.2	7.2	7.2	7.2	6.1	6.1	7.2	7.2	8.2	8.2
87.5°	14.3	6.1	6.1	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1
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)