

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: P633442

Luminaire Tested: GWS-SA2E-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633442
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-SA2E-760-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11523.8 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

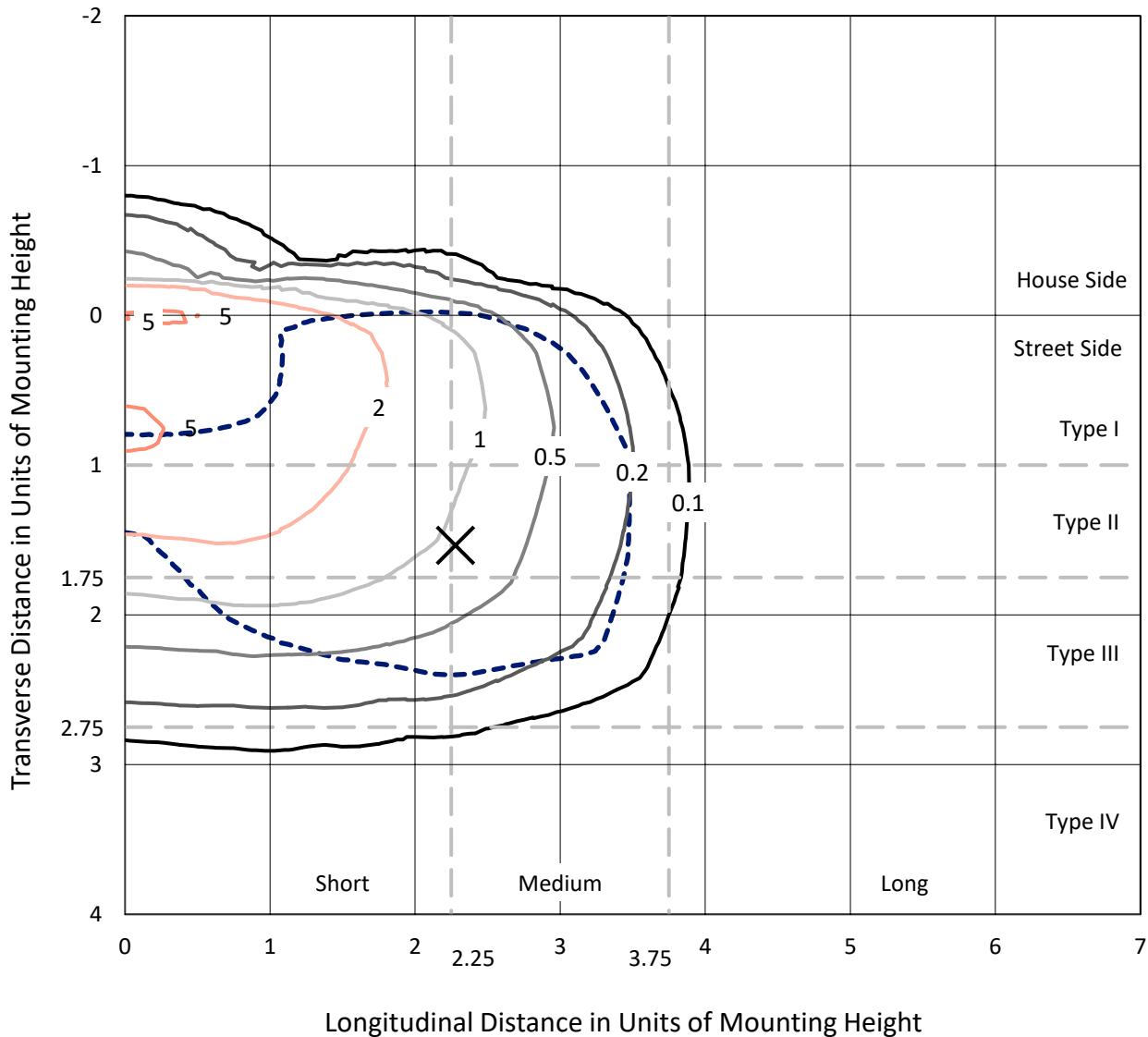
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

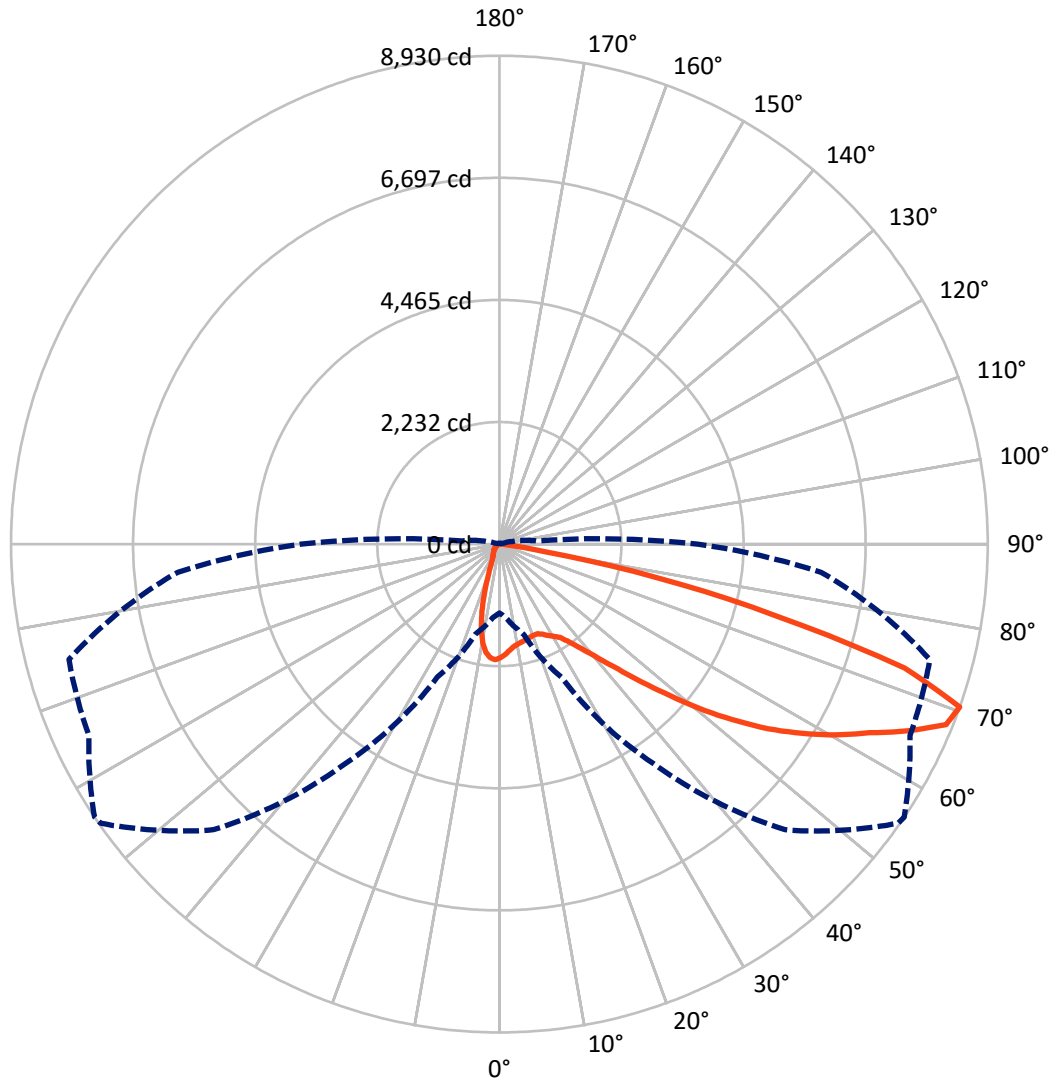
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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	1035.1	0.0	1035.1
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	10488.7	0.0	10488.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	11523.8	0.0	11523.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	1.5
10°-20°	401.2	3.5
20°-30°	635.6	5.5
30°-40°	1096.1	9.5
40°-50°	1850.9	16.1
50°-60°	2719.5	23.6
60°-70°	3224.1	28.0
70°-80°	1374.9	11.9
80°-90°	43.2	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°	11523.8	100.0
0°-180°	11523.8	100.0

Coefficient of Utilization



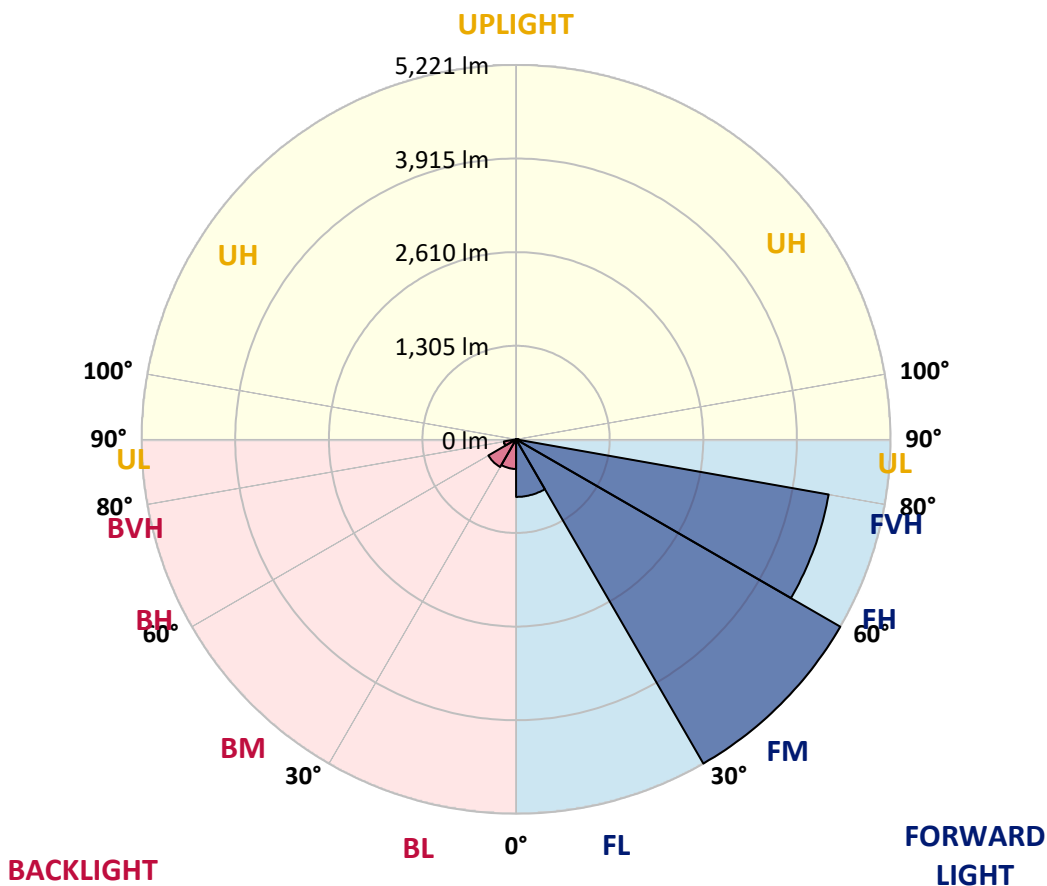
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	7.0			
FM (30°-60°)	5220.6	45.3			
FH (60°-80°)	4426.4	38.4			G2/5000
FVH (80°-90°)	38.8	0.3			G1/100
BL (0°-30°)	412.2	3.6	B1/500		
BM (30°-60°)	445.8	3.9	B1/1000		
BH (60°-80°)	172.6	1.5	B1/500		G1/500
BVH (80°-90°)	4.4	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°	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9
2.5°	1934.3	1931.2	1933.3	1949.1	1978.7	1992.4	2015.6	2019.8	2038.8	2063.1	2072.6
5°	1808.8	1798.2	1803.5	1825.6	1859.4	1897.4	1940.7	1952.3	1999.8	2053.6	2093.7
7.5°	1693.7	1682.1	1694.8	1729.6	1777.1	1818.3	1882.6	1890.0	1966.0	2061.0	2133.8
10°	1513.3	1516.4	1541.8	1603.0	1675.8	1761.3	1847.8	1858.4	1952.3	2085.2	2198.2
12.5°	1375.0	1367.6	1395.1	1464.7	1567.1	1691.6	1821.4	1835.1	1953.3	2122.2	2280.5
15°	1310.7	1308.6	1320.2	1370.8	1470.0	1616.7	1797.2	1815.1	1967.1	2155.9	2358.6
17.5°	1312.8	1309.6	1308.6	1338.1	1412.0	1560.8	1770.8	1794.0	1978.7	2192.9	2440.9
20°	1404.6	1389.8	1363.4	1349.7	1394.0	1524.9	1752.8	1779.2	1995.5	2231.9	2528.5
22.5°	1596.6	1601.9	1531.2	1457.3	1436.2	1529.1	1750.7	1781.3	2032.5	2293.1	2636.1
25°	1980.8	1972.3	1841.5	1675.8	1560.8	1577.7	1787.7	1824.6	2105.3	2380.7	2737.4
27.5°	2462.0	2469.4	2290.0	2026.1	1785.5	1677.9	1855.2	1892.1	2189.7	2435.6	2804.9
30°	2986.5	2979.1	2787.0	2494.7	2104.2	1844.6	1922.7	1955.4	2231.9	2465.1	2874.6
32.5°	3482.4	3465.6	3275.6	2969.6	2510.5	2107.4	2015.6	2034.6	2287.9	2529.5	2968.5
35°	3905.6	3904.6	3738.9	3412.8	2928.4	2436.7	2174.9	2190.8	2392.3	2631.9	3106.8
37.5°	4342.5	4327.7	4142.0	3844.4	3357.9	2797.6	2418.7	2412.4	2557.0	2782.8	3276.7
40°	4701.3	4691.8	4549.3	4263.4	3804.3	3196.5	2714.2	2695.2	2752.2	2991.7	3513.0
42.5°	4967.2	4968.3	4924.0	4749.8	4277.1	3657.6	3085.7	3056.1	3055.1	3307.3	3825.4
45°	5168.8	5182.5	5249.0	5222.6	4835.3	4194.8	3561.6	3531.0	3479.3	3716.7	4183.2
47.5°	5262.7	5280.6	5481.2	5586.7	5323.9	4727.7	4128.3	4063.9	3962.6	4261.2	4583.1
50°	5253.2	5284.9	5564.5	5885.3	5767.1	5268.0	4745.6	4715.0	4549.3	4837.4	4978.8
52.5°	5037.9	5105.5	5569.8	6066.8	6108.0	5766.1	5384.1	5327.1	5246.9	5438.9	5350.3
55°	4453.3	4535.6	5347.1	6124.9	6373.9	6200.9	6008.8	5962.4	5829.4	6006.7	5674.3
57.5°	4135.7	4206.4	4878.6	6096.4	6599.8	6602.9	6564.9	6526.9	6417.2	6568.1	6054.2
60°	3944.7	4015.4	4628.5	5991.9	6804.5	7027.1	7087.3	7083.1	6924.8	7206.5	6499.5
62.5°	3665.0	3762.1	4367.8	5720.7	6950.1	7445.0	7626.5	7598.1	7421.8	7871.4	6940.6
65°	3100.4	3184.9	3833.9	5273.3	6864.6	7791.2	8211.2	8226.0	8022.3	8497.2	7288.9
67.5°	2173.9	2236.1	2880.9	4334.1	6284.2	7905.1	8809.5	8808.5	8461.3	8818.0	7134.8
70°	1260.0	1345.5	1702.2	2679.4	4889.1	7387.0	8899.2	8929.8	8282.9	8147.9	5904.3
72.5°	487.5	558.2	964.5	1423.6	2549.6	5658.4	7655.0	7744.7	6932.2	6285.3	4109.3
75°	145.6	162.5	453.8	757.7	1023.6	2733.2	5182.5	5207.8	4755.1	3920.4	2106.3
77.5°	108.7	120.3	198.4	383.1	358.8	828.4	2681.5	2928.4	2524.2	1400.4	580.4
80°	73.9	87.6	141.4	186.8	133.0	220.6	753.5	827.3	770.4	314.5	145.6
82.5°	32.7	42.2	100.3	93.9	48.5	63.3	232.2	246.9	159.3	95.0	50.7
85°	3.2	4.2	38.0	41.2	17.9	14.8	48.5	48.5	34.8	32.7	21.1
87.5°	0.0	0.0	1.1	2.1	2.1	3.2	4.2	5.3	6.3	8.4	10.6
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°	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9	2077.9
2.5°	2096.9	2084.2	2100.0	2112.7	2115.8	2092.6	2078.9	2058.9	2054.6	2055.7	2050.4
5°	2125.3	2119.0	2130.6	2116.9	2081.0	2013.5	1955.4	1891.1	1856.2	1836.2	1834.1
7.5°	2178.1	2174.9	2162.3	2100.0	1988.2	1838.3	1693.7	1552.3	1464.7	1433.1	1427.8
10°	2256.2	2249.9	2198.2	2050.4	1811.9	1523.8	1281.1	1078.5	955.0	919.2	874.8
12.5°	2345.9	2333.2	2220.3	1943.8	1546.0	1147.1	844.2	617.3	510.8	479.1	479.1
15°	2432.4	2405.0	2207.7	1767.6	1218.9	746.1	471.7	356.7	324.0	315.5	315.5
17.5°	2521.1	2468.3	2158.1	1527.0	842.1	441.1	314.5	292.3	288.1	289.1	290.2
20°	2604.4	2522.1	2070.5	1237.8	537.1	308.1	281.8	276.5	274.4	276.5	275.4
22.5°	2695.2	2571.7	1937.5	922.3	349.3	277.5	268.0	263.8	261.7	264.9	264.9
25°	2784.9	2607.6	1761.3	620.5	277.5	258.5	253.3	249.0	246.9	248.0	248.0
27.5°	2831.3	2593.9	1530.2	395.7	249.0	239.5	234.3	229.0	225.8	224.8	225.8
30°	2863.0	2551.7	1247.3	281.8	225.8	214.2	208.9	204.7	196.3	191.0	193.1
32.5°	2912.6	2509.5	940.3	236.4	206.8	188.9	180.5	169.9	158.3	153.0	153.0
35°	2971.7	2451.4	659.6	213.2	186.8	167.8	152.0	134.0	120.3	116.1	116.1
37.5°	3049.8	2396.6	439.0	197.3	169.9	149.9	127.7	106.6	91.8	89.7	88.6
40°	3166.9	2350.1	309.2	185.7	155.1	130.9	104.5	82.3	71.8	68.6	68.6
42.5°	3318.9	2302.6	244.8	174.1	142.5	112.9	83.4	65.4	57.0	54.9	53.8
45°	3506.7	2246.7	213.2	163.6	129.8	93.9	66.5	54.9	48.5	46.4	46.4
47.5°	3710.4	2170.7	198.4	149.9	115.0	76.0	55.9	47.5	44.3	43.3	42.2
50°	3910.9	2068.4	185.7	137.2	98.1	62.3	48.5	43.3	41.2	40.1	40.1
52.5°	4086.1	1949.1	169.9	122.4	80.2	53.8	43.3	40.1	38.0	35.9	34.8
55°	4235.9	1819.3	149.9	105.5	65.4	47.5	40.1	36.9	34.8	32.7	31.7
57.5°	4429.0	1745.4	120.3	85.5	53.8	42.2	36.9	33.8	31.7	28.5	28.5
60°	4643.3	1691.6	89.7	67.5	46.4	39.0	33.8	30.6	28.5	25.3	25.3
62.5°	4815.3	1611.4	70.7	54.9	40.1	34.8	30.6	27.4	25.3	22.2	22.2
65°	4880.7	1445.7	58.0	43.3	32.7	30.6	27.4	25.3	22.2	19.0	19.0
67.5°	4585.2	1114.4	48.5	34.8	27.4	26.4	24.3	23.2	19.0	16.9	15.8
70°	3631.2	679.6	40.1	28.5	23.2	22.2	22.2	20.1	16.9	15.8	14.8
72.5°	2488.4	350.4	32.7	23.2	20.1	20.1	19.0	17.9	15.8	14.8	14.8
75°	1292.7	117.1	25.3	17.9	15.8	16.9	16.9	15.8	14.8	14.8	13.7
77.5°	370.4	52.8	19.0	13.7	12.7	12.7	13.7	13.7	13.7	12.7	12.7
80°	96.0	30.6	13.7	10.6	10.6	10.6	10.6	11.6	12.7	11.6	11.6
82.5°	39.0	16.9	9.5	8.4	8.4	8.4	8.4	9.5	10.6	10.6	10.6
85°	24.3	8.4	7.4	7.4	7.4	6.3	6.3	7.4	7.4	8.4	8.4
87.5°	14.8	6.3	6.3	6.3	6.3	5.3	5.3	5.3	5.3	5.3	5.3
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)