

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: P637225

Luminaire Tested: GWS-SA4C-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14341.2 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

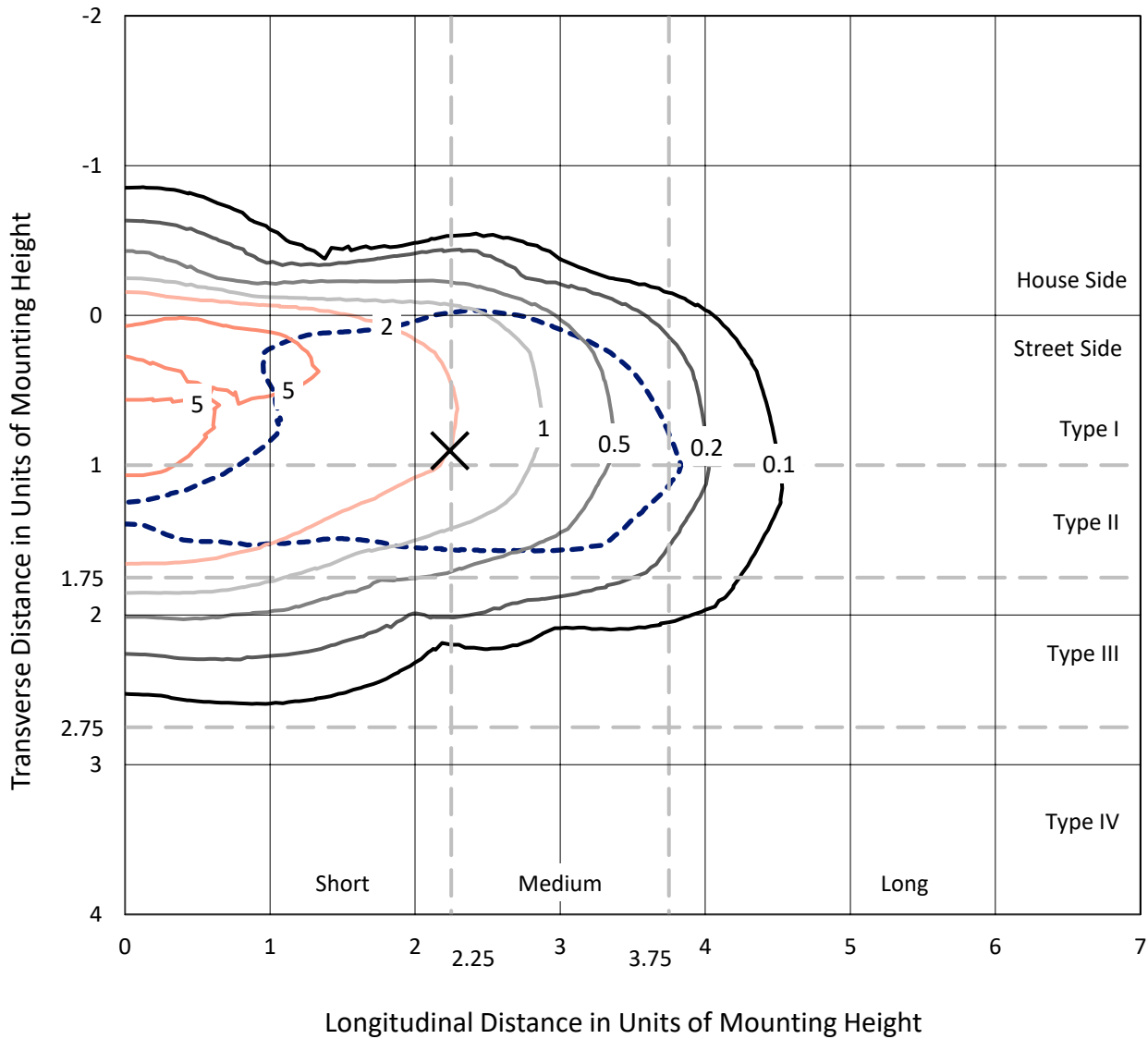
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

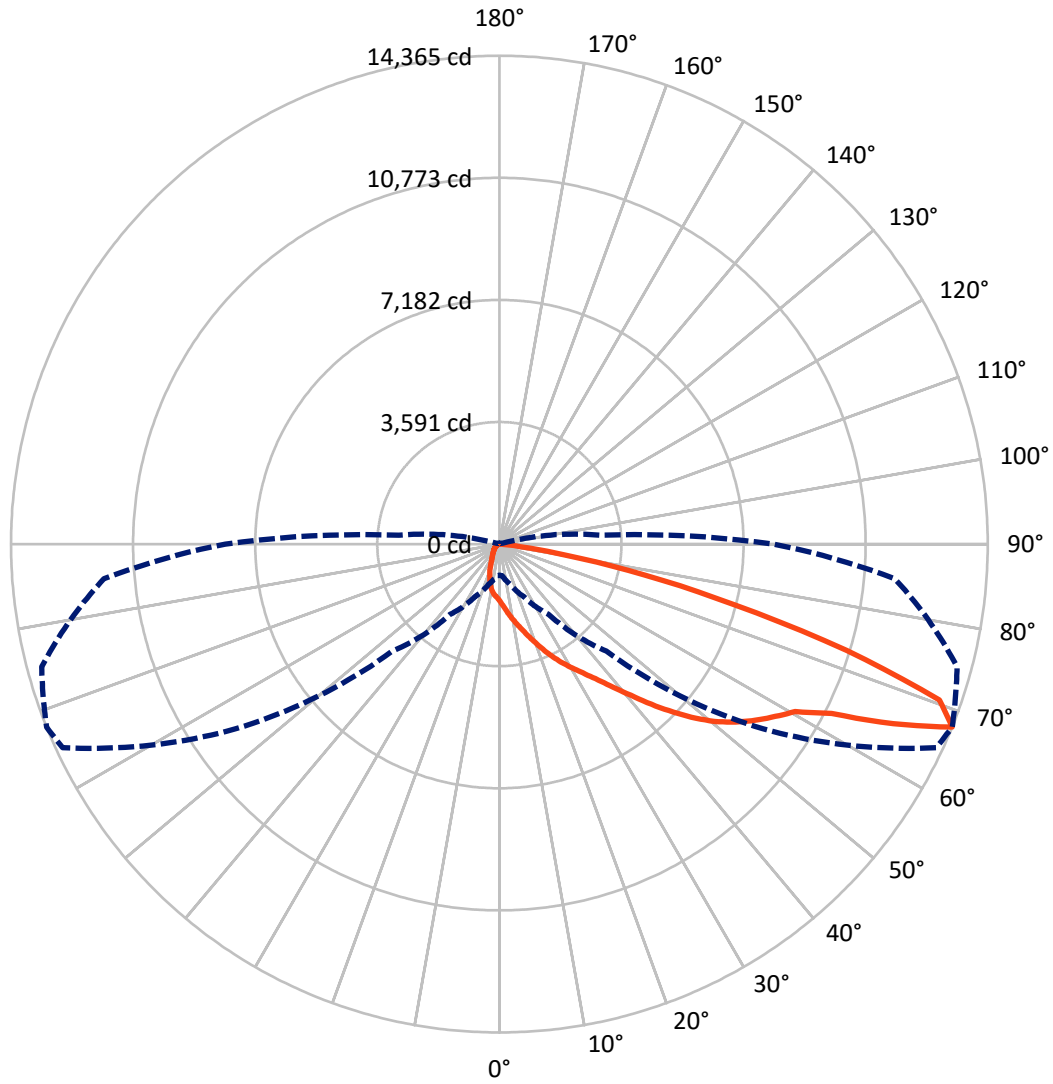
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.6	0.0	1035.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13305.6	0.0	13305.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	14341.2	0.0	14341.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.1
10°-20°	467.4	3.3
20°-30°	803.3	5.6
30°-40°	1396.6	9.7
40°-50°	2437.0	17.0
50°-60°	3675.6	25.6
60°-70°	3685.6	25.7
70°-80°	1626.1	11.3
80°-90°	86.9	0.6
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°	14341.2	100.0
0°-180°	14341.2	100.0

Coefficient of Utilization



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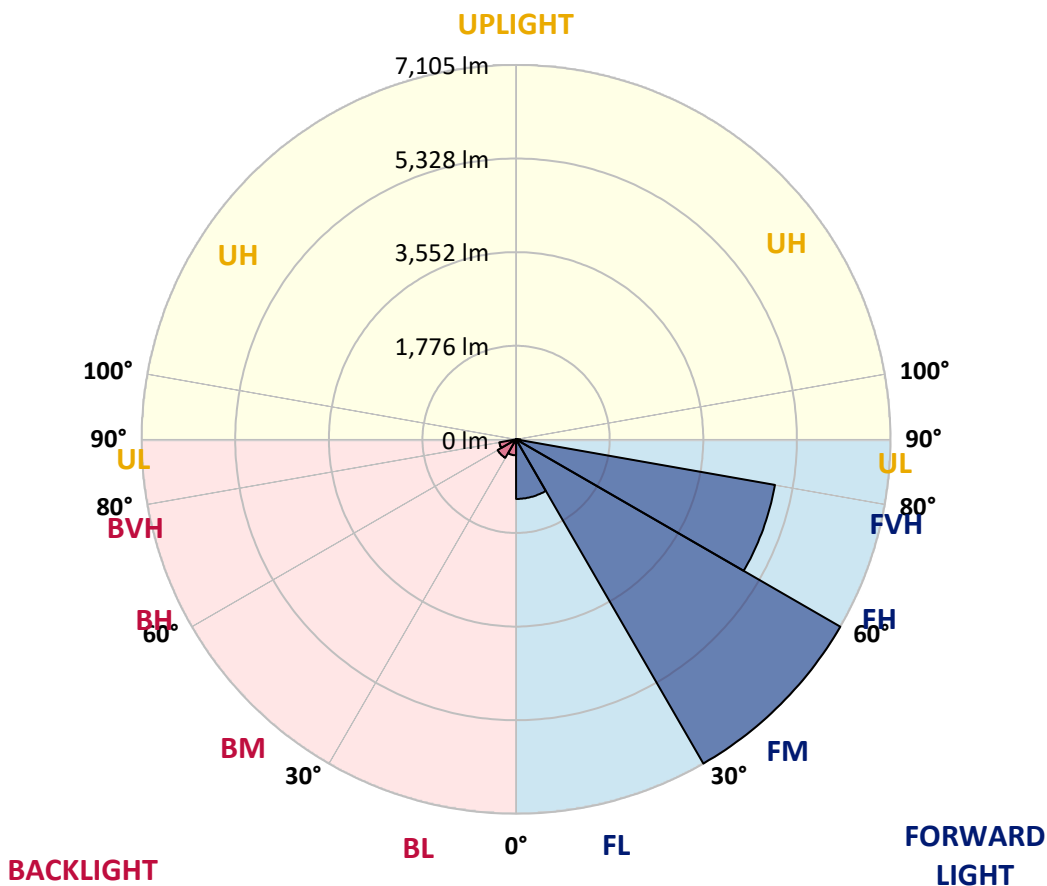
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.5	7.9			
FM (30°-60°)	7104.6	49.5			
FH (60°-80°)	4988.5	34.8			G2/5000
FVH (80°-90°)	82.0	0.6			G1/100
BL (0°-30°)	303.0	2.1	B1/500		
BM (30°-60°)	404.5	2.8	B1/1000		
BH (60°-80°)	323.2	2.3	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1943.4	1955.8	1943.4	1946.2	1910.5	1894.0	1858.4	1808.9	1796.6	1765.0	1717.0
5°	2180.9	2191.9	2179.5	2176.8	2135.6	2105.4	2046.4	1961.3	1936.6	1874.8	1780.1
7.5°	2309.9	2316.8	2320.9	2327.7	2312.7	2287.9	2234.4	2128.7	2102.7	2002.5	1869.3
10°	2323.6	2329.1	2349.7	2390.9	2421.1	2436.2	2406.0	2308.5	2267.4	2169.9	1979.1
12.5°	2285.2	2293.4	2326.4	2395.0	2478.7	2555.6	2574.8	2489.7	2452.6	2327.7	2108.1
15°	2234.4	2241.3	2286.6	2379.9	2506.2	2647.5	2727.1	2690.1	2648.9	2518.5	2250.9
17.5°	2156.2	2165.8	2228.9	2355.2	2518.5	2720.3	2891.8	2904.2	2875.4	2734.0	2408.7
20°	2112.3	2119.1	2175.4	2305.8	2510.3	2773.8	3045.6	3162.2	3130.7	2982.4	2589.9
22.5°	2149.3	2154.8	2191.9	2293.4	2482.8	2804.0	3188.3	3420.3	3402.4	3248.7	2780.7
25°	2344.2	2362.1	2340.1	2357.9	2495.2	2820.5	3303.6	3678.3	3682.4	3527.3	2978.3
27.5°	2739.5	2716.2	2664.0	2574.8	2591.3	2864.4	3402.4	3921.2	3956.9	3799.1	3154.0
30°	3141.6	3127.9	3096.3	2957.7	2842.4	2961.8	3486.1	4169.6	4225.9	4066.7	3310.5
32.5°	3593.2	3606.9	3550.6	3384.6	3188.3	3159.5	3572.6	4405.7	4511.4	4370.0	3494.4
35°	4132.6	4136.7	4025.5	3841.6	3619.3	3486.1	3727.7	4666.5	4861.4	4757.1	3740.0
37.5°	4658.2	4682.9	4622.6	4333.0	4135.3	3892.4	3984.3	5001.4	5275.9	5234.7	4048.9
40°	5123.5	5161.9	5142.7	4862.7	4603.3	4398.8	4382.4	5393.9	5776.8	5823.5	4456.5
42.5°	5494.1	5518.8	5533.9	5334.9	5105.7	4990.4	4873.7	5849.6	6368.4	6559.1	4956.1
45°	5885.2	5893.5	5925.1	5790.5	5590.2	5599.8	5454.3	6402.7	6991.5	7374.4	5529.8
47.5°	6383.5	6410.9	6395.8	6254.4	6073.3	6181.7	6054.1	6972.3	7606.4	8244.6	6117.2
50°	6990.1	7018.9	7005.2	6840.5	6638.7	6684.0	6604.4	7525.4	8199.3	9065.3	6605.8
52.5°	7303.0	7326.4	7496.6	7570.7	7465.0	7176.8	7073.8	8133.4	8700.2	9740.6	7054.6
55°	7152.1	7168.5	7539.1	7852.0	8239.1	7950.8	7546.0	8602.8	9142.2	10267.6	7388.1
57.5°	6526.2	6615.4	7119.1	7648.9	8462.8	8715.3	8311.8	9113.4	9567.6	10634.1	7716.2
60°	5242.9	5238.8	5960.7	6911.9	8026.3	8925.3	9393.3	9803.7	9994.5	10915.4	8155.4
62.5°	2897.3	2923.4	3884.2	5137.2	6813.1	8381.8	10204.5	10996.4	10967.6	11406.8	8843.0
65°	1442.5	1494.6	2016.2	2942.6	4533.3	6927.0	10344.5	12816.3	12734.0	12563.8	10263.5
67.5°	915.5	936.0	1224.3	1710.1	2519.9	4452.4	9472.9	14173.7	14364.5	13936.3	11673.0
70°	592.9	627.2	850.9	1169.4	1520.7	2294.8	6939.3	13294.0	13731.8	13785.3	10794.7
72.5°	322.5	347.2	543.5	834.5	1098.0	1147.4	3897.9	9976.6	10680.7	11693.6	8444.9
75°	183.9	201.8	297.8	566.8	805.7	698.6	1728.0	6678.5	7127.4	8357.1	6051.3
77.5°	111.2	126.3	167.4	275.9	505.1	466.6	653.3	4065.3	4350.8	4986.3	3175.9
80°	50.8	60.4	105.7	152.3	275.9	221.0	249.8	1895.4	1957.2	2046.4	1051.3
82.5°	23.3	27.4	48.0	90.6	156.5	127.6	96.1	437.8	616.2	583.3	267.6
85°	2.7	2.7	17.8	37.1	43.9	32.9	39.8	98.8	124.9	175.7	76.9
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	8.2	12.4	17.8	28.8	19.2
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°	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1695.0	1656.6	1622.3	1571.5	1537.2	1498.8	1472.7	1441.1	1428.8	1419.2	1405.4
5°	1733.5	1671.7	1588.0	1494.6	1417.8	1345.0	1277.8	1233.9	1195.4	1190.0	1170.7
7.5°	1796.6	1704.6	1563.3	1410.9	1280.5	1159.8	1065.1	988.2	949.8	937.4	915.5
10°	1880.3	1754.0	1526.2	1292.9	1104.9	960.7	853.7	767.2	706.8	684.9	668.4
12.5°	1973.6	1799.3	1467.2	1147.4	933.3	768.6	632.7	540.8	502.3	488.6	476.3
15°	2080.7	1841.9	1373.9	1001.9	765.9	565.5	469.4	429.6	413.1	409.0	404.9
17.5°	2183.6	1869.3	1262.7	850.9	588.8	439.2	393.9	378.8	374.7	370.6	367.8
20°	2300.3	1888.5	1132.3	708.2	457.0	371.9	350.0	339.0	330.8	322.5	321.2
22.5°	2419.7	1888.5	990.9	568.2	382.9	333.5	308.8	288.2	273.1	264.9	262.1
25°	2533.6	1862.5	850.9	454.3	337.6	296.5	264.9	241.6	221.0	211.4	208.6
27.5°	2614.6	1795.2	728.8	384.3	306.1	263.5	225.1	199.0	182.5	172.9	171.6
30°	2665.4	1695.0	616.2	343.1	278.6	229.2	190.8	168.8	156.5	149.6	146.9
32.5°	2703.8	1571.5	516.1	314.3	252.5	199.0	166.1	148.2	137.2	131.8	130.4
35°	2780.7	1454.8	441.9	288.2	225.1	174.3	145.5	131.8	123.5	116.7	115.3
37.5°	2887.7	1357.4	382.9	264.9	199.0	155.1	131.8	119.4	112.5	105.7	104.3
40°	3045.6	1295.6	339.0	241.6	175.7	140.0	120.8	109.8	100.2	93.3	92.0
42.5°	3288.5	1266.8	310.2	218.2	155.1	126.3	111.2	97.4	87.8	81.0	79.6
45°	3578.1	1281.9	285.5	194.9	141.4	116.7	98.8	85.1	75.5	68.6	67.3
47.5°	3888.3	1335.4	264.9	172.9	127.6	107.1	87.8	72.7	64.5	57.6	56.3
50°	4212.2	1423.3	247.0	152.3	116.7	96.1	75.5	63.1	54.9	49.4	48.0
52.5°	4493.5	1542.7	229.2	137.2	107.1	85.1	65.9	54.9	46.7	41.2	39.8
55°	4762.5	1655.2	215.5	123.5	96.1	74.1	57.6	46.7	39.8	34.3	32.9
57.5°	5054.9	1774.6	199.0	111.2	86.5	65.9	50.8	39.8	34.3	28.8	27.4
60°	5480.4	1951.7	174.3	101.6	75.5	57.6	43.9	35.7	30.2	23.3	22.0
62.5°	6093.9	2274.2	146.9	87.8	64.5	49.4	37.1	30.2	24.7	19.2	16.5
65°	7241.3	2823.2	120.8	72.7	52.2	41.2	31.6	24.7	19.2	13.7	12.4
67.5°	8067.5	2966.0	97.4	59.0	42.5	31.6	26.1	19.2	13.7	9.6	8.2
70°	7053.2	2130.1	75.5	48.0	35.7	24.7	20.6	15.1	9.6	6.9	5.5
72.5°	5314.3	1391.7	56.3	37.1	27.4	20.6	15.1	12.4	8.2	5.5	4.1
75°	3745.5	804.3	41.2	27.4	19.2	15.1	12.4	9.6	6.9	4.1	4.1
77.5°	1920.1	332.1	28.8	19.2	13.7	9.6	8.2	5.5	5.5	4.1	2.7
80°	583.3	109.8	16.5	12.4	9.6	6.9	4.1	4.1	4.1	2.7	1.4
82.5°	133.1	35.7	9.6	9.6	6.9	5.5	4.1	1.4	1.4	0.0	0.0
85°	34.3	11.0	8.2	6.9	6.9	5.5	2.7	1.4	0.0	0.0	0.0
87.5°	12.4	6.9	6.9	6.9	5.5	4.1	2.7	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)