

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: P633417

Luminaire Tested: GWS-SA2E-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11598.8 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

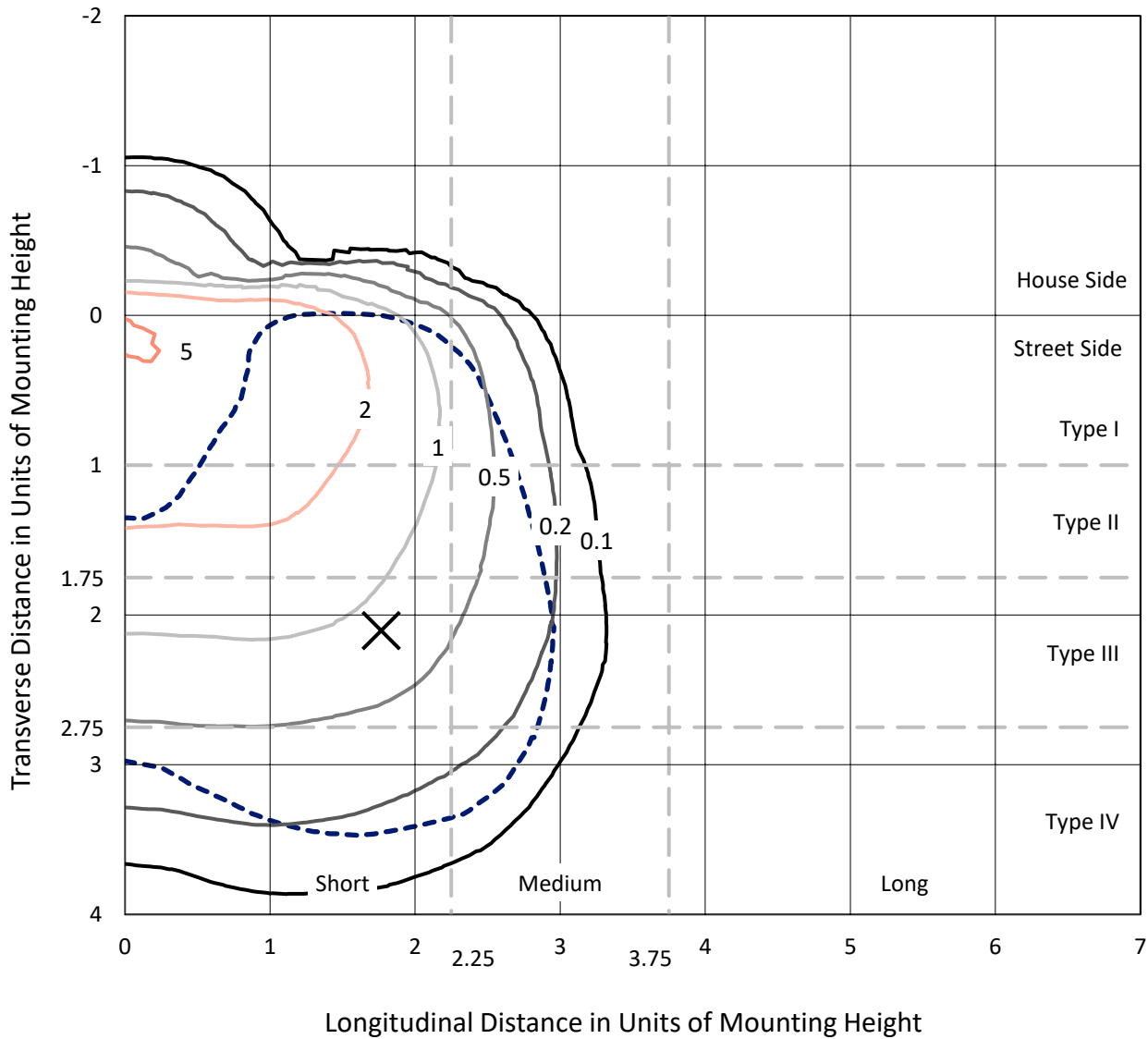
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

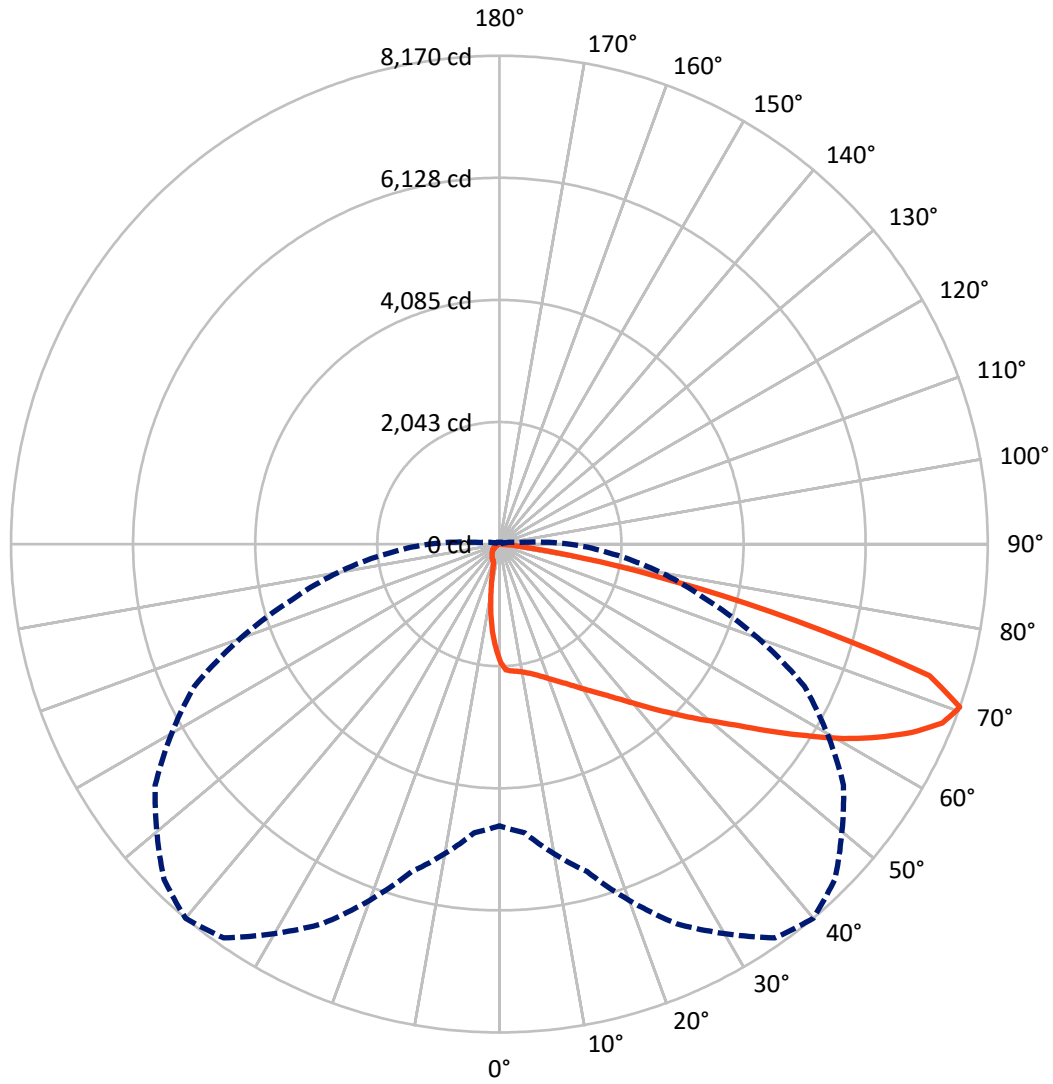
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	948.5	0.0	948.5
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10650.3	0.0	10650.3
	% Fixture	91.8	0.0	91.8
Total	Lumens	11598.8	0.0	11598.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	1.4
10°-20°	421.9	3.6
20°-30°	706.1	6.1
30°-40°	1109.1	9.6
40°-50°	1754.3	15.1
50°-60°	2559.0	22.1
60°-70°	3172.3	27.4
70°-80°	1605.0	13.8
80°-90°	104.8	0.9
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°	11598.8	100.0
0°-180°	11598.8	100.0

Coefficient of Utilization



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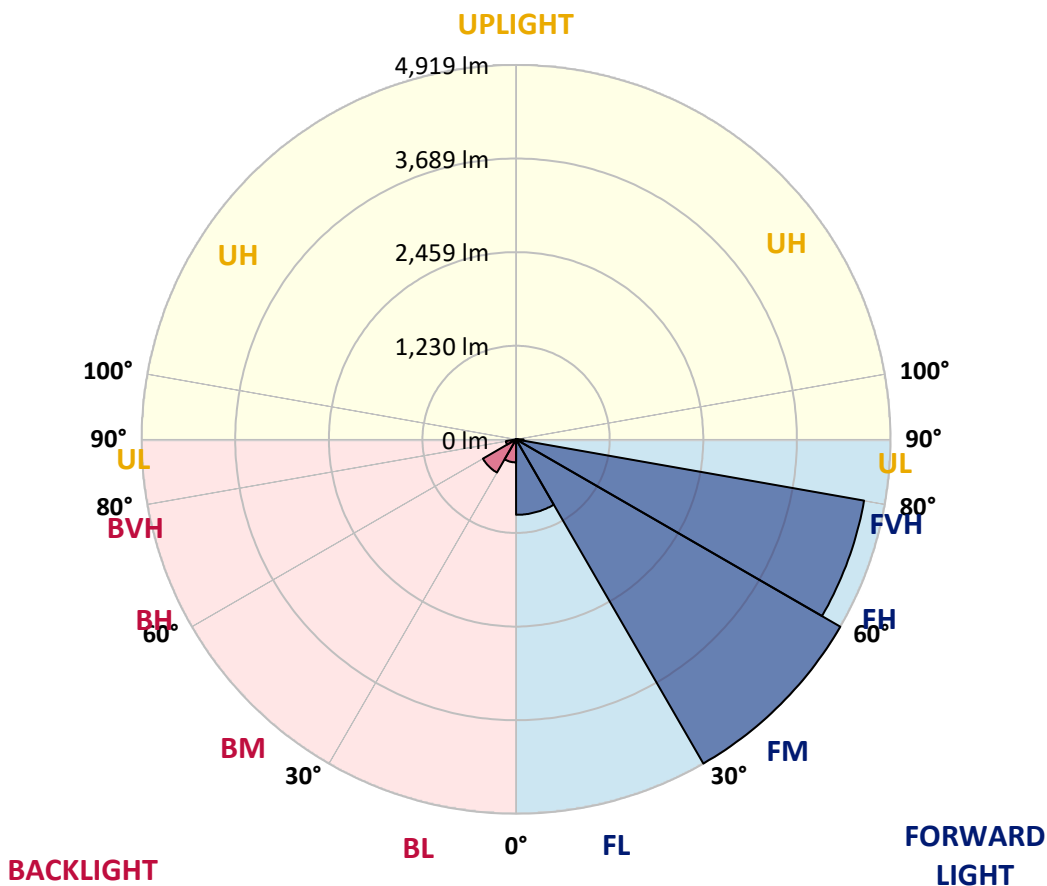
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.5	8.5			
FM (30°-60°)	4918.9	42.4			
FH (60°-80°)	4642.0	40.0			G2/5000
FVH (80°-90°)	97.9	0.8			G1/100
BL (0°-30°)	302.9	2.6	B1/500		
BM (30°-60°)	503.4	4.3	B1/1000		
BH (60°-80°)	135.2	1.2	B1/500		G1/500
BVH (80°-90°)	6.9	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	2115.9	2123.3	2122.3	2125.4	2118.0	2106.4	2104.3	2088.5	2060.0	2024.1	1984.0
5°	2159.2	2167.6	2161.3	2158.1	2144.4	2131.8	2128.6	2111.7	2079.0	2030.4	1960.8
7.5°	2196.1	2198.2	2194.0	2186.6	2166.6	2149.7	2138.1	2114.9	2075.8	2027.3	1947.1
10°	2202.5	2201.4	2203.5	2204.6	2191.9	2177.1	2167.6	2136.0	2086.4	2034.7	1948.1
12.5°	2195.1	2195.1	2208.8	2224.6	2224.6	2217.2	2207.7	2179.2	2121.2	2060.0	1969.2
15°	2204.6	2207.7	2234.1	2263.7	2273.2	2265.8	2261.6	2232.0	2171.9	2104.3	2007.2
17.5°	2238.3	2241.5	2283.7	2328.0	2339.7	2331.2	2322.8	2293.2	2228.8	2155.0	2050.5
20°	2287.9	2296.4	2350.2	2407.2	2417.7	2407.2	2390.3	2349.1	2284.8	2209.8	2091.7
22.5°	2378.7	2384.0	2442.0	2502.2	2507.4	2490.6	2465.2	2408.2	2340.7	2267.9	2138.1
25°	2499.0	2506.4	2564.4	2622.5	2608.8	2583.4	2548.6	2484.2	2407.2	2336.5	2197.2
27.5°	2642.5	2651.0	2708.0	2758.6	2722.7	2693.2	2654.1	2573.9	2495.8	2431.5	2273.2
30°	2797.7	2805.0	2855.7	2901.1	2853.6	2818.8	2772.3	2690.0	2610.9	2562.3	2380.8
32.5°	2947.5	2946.5	2995.0	3031.9	2983.4	2956.0	2913.7	2830.4	2767.1	2746.0	2541.2
35°	3086.8	3086.8	3126.9	3163.9	3129.0	3114.3	3075.2	3008.7	2972.8	2998.2	2755.4
37.5°	3227.2	3219.8	3257.8	3298.9	3295.8	3296.8	3274.7	3243.0	3245.1	3334.8	3049.9
40°	3343.3	3340.1	3384.4	3438.2	3480.5	3514.2	3500.5	3512.1	3578.6	3746.4	3426.6
42.5°	3436.1	3443.5	3500.5	3586.0	3692.6	3761.2	3770.7	3818.2	3989.1	4248.7	3851.9
45°	3542.7	3543.8	3622.9	3753.8	3923.7	4032.4	4070.4	4192.8	4435.5	4770.1	4318.4
47.5°	3673.6	3660.9	3749.6	3933.2	4179.1	4339.5	4407.0	4560.1	4935.7	5278.7	4698.3
50°	3818.2	3794.9	3895.2	4145.3	4465.1	4665.6	4802.8	5026.5	5431.7	5696.6	4981.1
52.5°	3986.0	3963.8	4077.8	4389.1	4808.1	5051.8	5228.1	5453.9	5857.0	6015.3	5150.0
55°	4199.1	4177.0	4297.3	4681.4	5213.3	5529.9	5714.6	5904.5	6252.8	6250.7	5272.4
57.5°	4435.5	4404.9	4571.7	5050.8	5718.8	6048.1	6235.9	6328.8	6553.6	6433.2	5354.7
60°	4706.7	4679.3	4910.4	5490.8	6302.4	6607.4	6725.6	6687.6	6800.5	6540.9	5326.2
62.5°	4951.6	4938.9	5226.0	5957.3	6858.5	7116.0	7148.8	6983.1	6982.0	6543.0	5134.1
65°	5205.9	5230.2	5656.5	6494.5	7417.9	7590.9	7535.0	7276.5	7054.8	6284.4	4566.4
67.5°	5300.9	5371.6	5940.4	6979.9	7859.0	7994.1	7895.9	7423.1	6752.0	5414.9	3477.3
70°	4714.1	4847.1	5672.4	7007.3	8041.6	8170.3	7935.0	7028.5	5629.1	3587.0	1904.9
72.5°	3584.9	3740.1	4726.8	5737.8	7232.1	7525.5	7123.4	5726.2	3628.2	1571.4	639.5
75°	2006.2	2174.0	3520.6	4320.5	4855.5	5123.6	4975.8	3673.6	1607.3	410.5	191.0
77.5°	678.6	734.5	1637.9	2673.1	3205.0	2964.4	2509.6	1824.7	591.0	156.2	101.3
80°	402.1	423.2	610.0	1330.8	1686.4	1398.3	1103.9	674.4	300.8	83.4	70.7
82.5°	120.3	142.5	336.6	493.9	660.6	411.6	348.3	385.2	156.2	45.4	59.1
85°	0.0	0.0	71.8	153.0	173.1	67.5	67.5	218.5	28.5	19.0	43.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.3	3.2	4.2	9.5
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°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	1955.5	1918.6	1875.3	1834.2	1795.1	1744.4	1720.2	1690.6	1665.3	1651.6	1659.0
5°	1916.5	1858.4	1769.8	1680.1	1589.3	1503.8	1426.8	1375.1	1328.7	1304.4	1309.7
7.5°	1882.7	1804.6	1666.4	1519.7	1374.0	1227.3	1108.1	1015.2	943.5	913.9	908.6
10°	1867.9	1769.8	1574.5	1363.5	1139.7	942.4	773.6	671.2	598.4	562.5	568.8
12.5°	1875.3	1751.8	1496.4	1210.5	920.2	690.2	528.7	432.7	381.0	359.9	354.6
15°	1896.4	1747.6	1426.8	1054.3	710.2	482.3	365.1	326.1	315.5	313.4	313.4
17.5°	1920.7	1748.7	1355.0	896.0	539.3	357.8	312.4	305.0	301.8	299.7	300.8
20°	1945.0	1748.7	1272.7	735.6	405.2	309.2	297.6	292.3	289.2	288.1	288.1
22.5°	1974.5	1748.7	1180.9	586.8	325.0	293.4	283.9	280.7	277.5	276.5	275.4
25°	2010.4	1749.7	1079.6	459.1	295.5	279.7	272.3	269.1	265.9	263.8	263.8
27.5°	2062.1	1758.2	967.7	357.8	278.6	267.0	260.7	257.5	254.3	251.2	251.2
30°	2137.0	1779.3	842.1	295.5	262.8	253.3	246.9	244.8	241.7	238.5	237.4
32.5°	2248.9	1816.2	712.3	264.9	248.0	238.5	231.1	229.0	225.8	222.7	221.6
35°	2405.1	1883.8	585.7	245.9	229.0	219.5	215.3	214.2	210.0	206.8	206.8
37.5°	2634.1	1993.5	464.3	226.9	213.2	205.8	200.5	198.4	194.2	191.0	190.0
40°	2913.7	2136.0	360.9	212.1	198.4	191.0	185.7	182.6	177.3	173.1	171.0
42.5°	3270.4	2310.1	284.9	196.3	184.7	177.3	173.1	166.7	159.4	153.0	152.0
45°	3641.9	2489.5	235.3	181.5	172.0	165.7	160.4	152.0	141.4	134.0	131.9
47.5°	3926.9	2601.4	205.8	165.7	158.3	153.0	146.7	136.1	123.5	115.0	112.9
50°	4130.5	2618.3	183.6	150.9	146.7	141.4	131.9	119.3	105.5	97.1	95.0
52.5°	4230.8	2542.3	165.7	137.2	134.0	128.7	117.1	103.4	88.6	80.2	78.1
55°	4276.2	2398.7	148.8	125.6	121.4	115.0	102.4	87.6	72.8	65.4	63.3
57.5°	4258.2	2186.6	134.0	114.0	108.7	101.3	87.6	71.8	60.2	52.8	51.7
60°	4125.3	1889.0	119.3	102.4	96.0	87.6	73.9	59.1	48.5	43.3	42.2
62.5°	3838.2	1519.7	104.5	88.6	84.4	76.0	63.3	48.5	40.1	36.9	35.9
65°	3250.4	1074.3	89.7	74.9	72.8	64.4	52.8	40.1	34.8	32.7	31.7
67.5°	2336.5	653.2	76.0	64.4	62.3	54.9	44.3	34.8	31.7	30.6	30.6
70°	1174.6	309.2	60.2	52.8	52.8	45.4	38.0	31.7	30.6	29.5	29.5
72.5°	398.9	131.9	45.4	41.2	43.3	39.0	32.7	29.5	29.5	29.5	29.5
75°	136.1	69.7	31.7	29.5	31.7	31.7	28.5	28.5	29.5	29.5	29.5
77.5°	88.6	46.4	22.2	20.1	24.3	24.3	24.3	26.4	28.5	28.5	28.5
80°	72.8	25.3	14.8	13.7	17.9	17.9	20.1	24.3	26.4	26.4	26.4
82.5°	62.3	15.8	8.4	9.5	12.7	13.7	16.9	20.1	23.2	24.3	24.3
85°	42.2	8.4	6.3	7.4	8.4	10.6	13.7	16.9	19.0	21.1	21.1
87.5°	11.6	3.2	4.2	5.3	5.3	7.4	10.6	12.7	14.8	15.8	15.8
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)