

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: P636827

Luminaire Tested: GWS-SA4B-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636827
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-SA4B-750-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11665.8 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

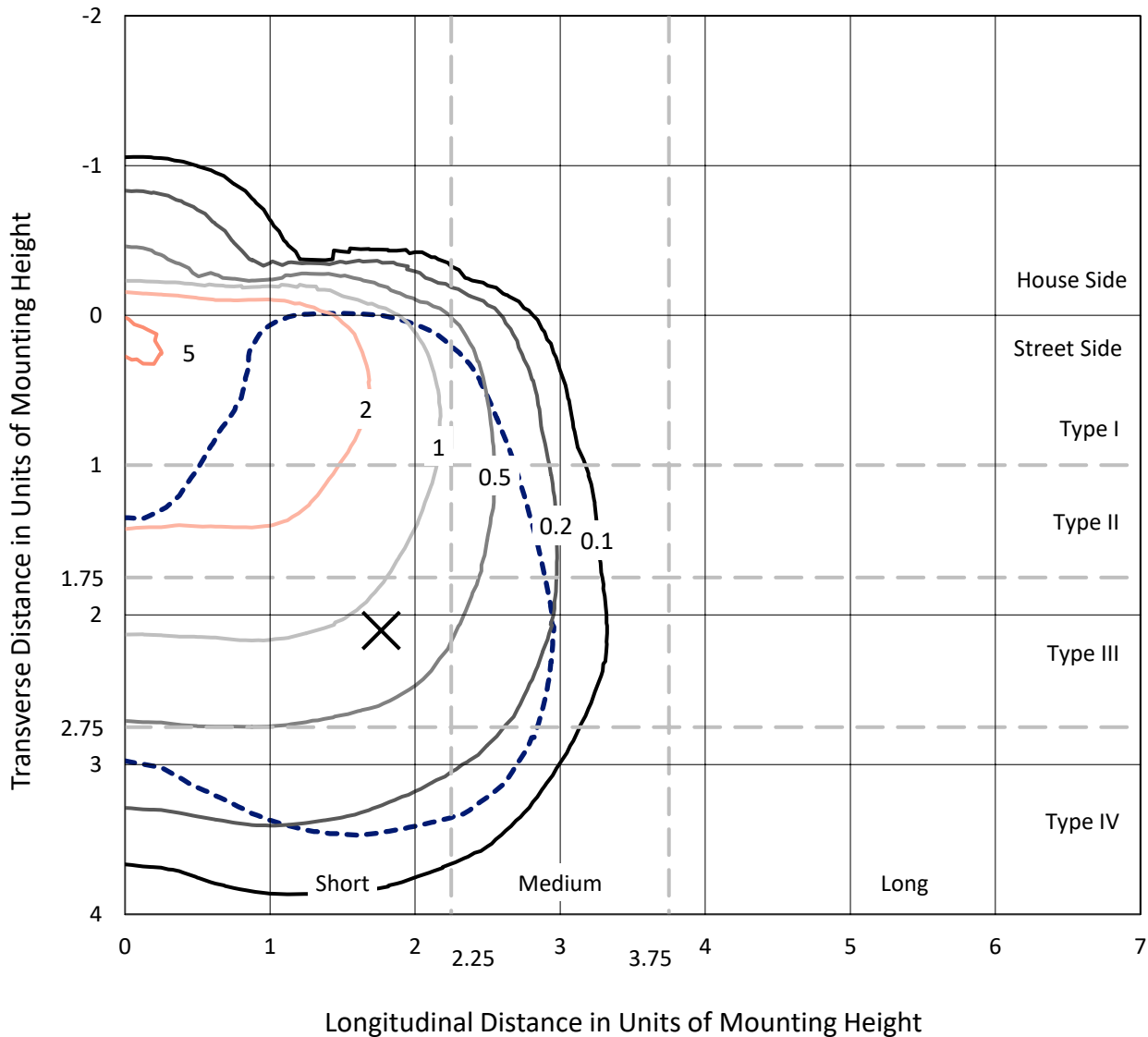
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

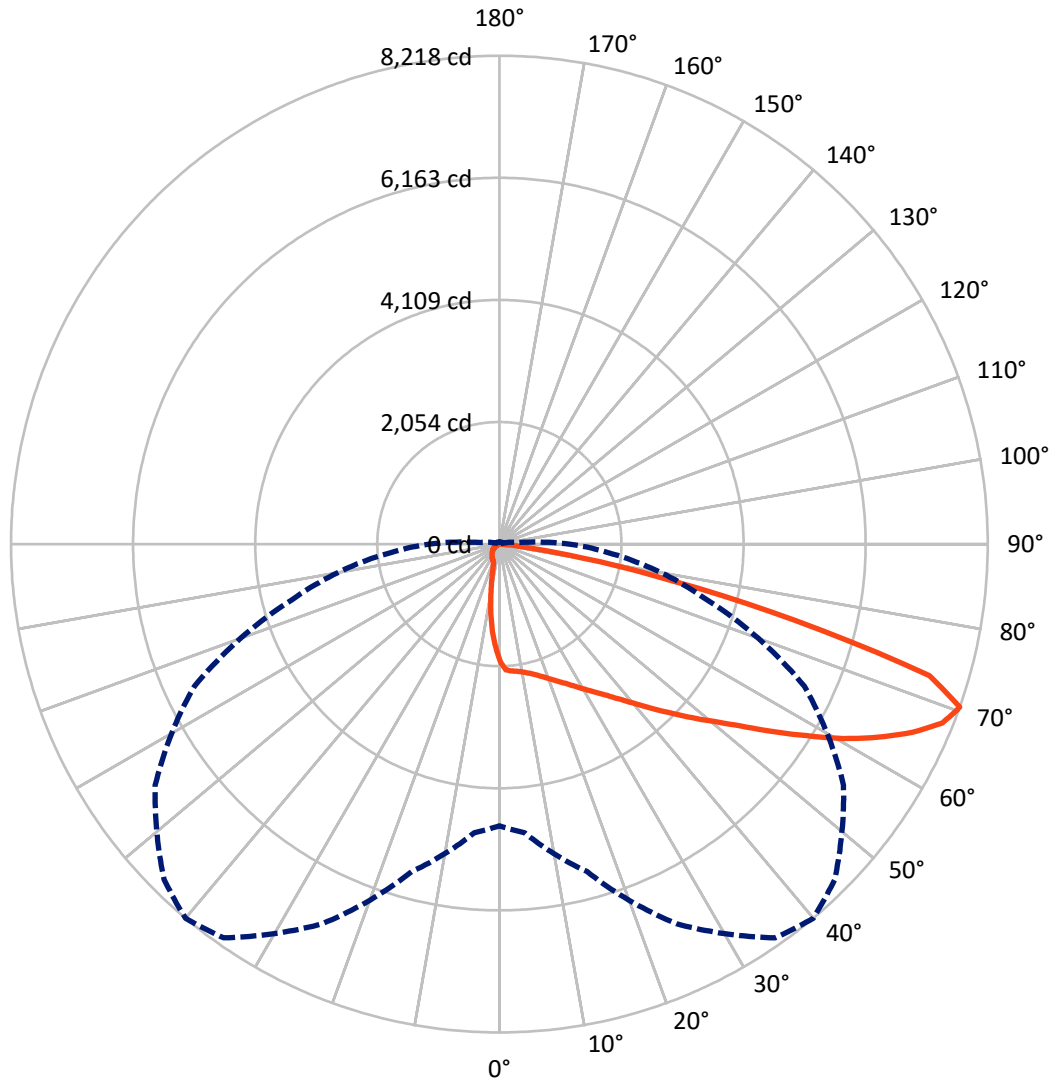
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	953.9	0.0	953.9
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10711.8	0.0	10711.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	11665.8	0.0	11665.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	1.4
10°-20°	424.3	3.6
20°-30°	710.2	6.1
30°-40°	1115.5	9.6
40°-50°	1764.4	15.1
50°-60°	2573.8	22.1
60°-70°	3190.6	27.4
70°-80°	1614.3	13.8
80°-90°	105.4	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°	11665.8	100.0
0°-180°	11665.8	100.0

Coefficient of Utilization



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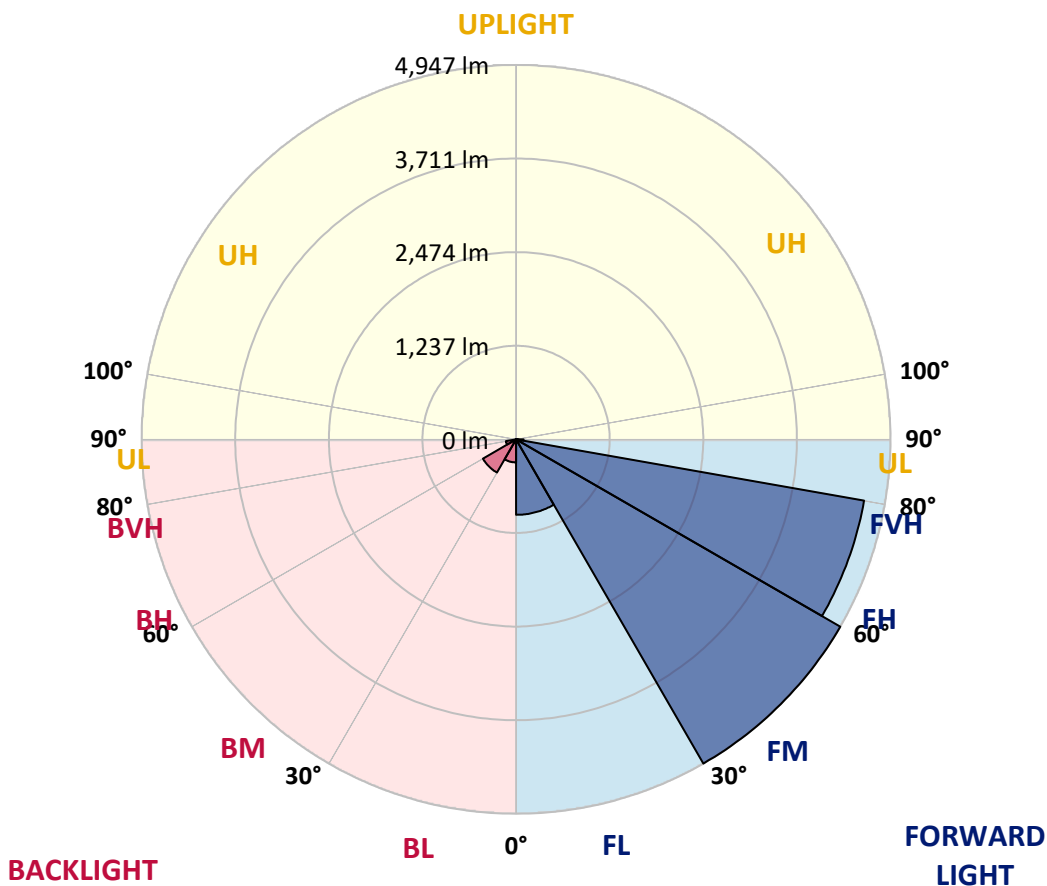
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.2	8.5			
FM (30°-60°)	4947.3	42.4			
FH (60°-80°)	4668.9	40.0			G2/5000
FVH (80°-90°)	98.4	0.8			G1/100
BL (0°-30°)	304.6	2.6	B1/500		
BM (30°-60°)	506.3	4.3	B1/1000		
BH (60°-80°)	136.0	1.2	B1/500		G1/500
BVH (80°-90°)	7.0	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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	2128.1	2135.6	2134.5	2137.7	2130.3	2118.6	2116.5	2100.5	2071.9	2035.8	1995.5
5°	2171.7	2180.2	2173.8	2170.6	2156.8	2144.1	2140.9	2123.9	2091.0	2042.2	1972.1
7.5°	2208.8	2210.9	2206.7	2199.3	2179.1	2162.1	2150.4	2127.1	2087.8	2039.0	1958.3
10°	2215.2	2214.1	2216.2	2217.3	2204.6	2189.7	2180.2	2148.3	2098.4	2046.4	1959.4
12.5°	2207.8	2207.8	2221.5	2237.5	2237.5	2230.0	2220.5	2191.8	2133.5	2071.9	1980.6
15°	2217.3	2220.5	2247.0	2276.7	2286.3	2278.9	2274.6	2244.9	2184.4	2116.5	2018.8
17.5°	2251.3	2254.5	2296.9	2341.5	2353.2	2344.7	2336.2	2306.5	2241.7	2167.4	2062.3
20°	2301.2	2309.6	2363.8	2421.1	2431.7	2421.1	2404.1	2362.7	2298.0	2222.6	2103.7
22.5°	2392.4	2397.7	2456.1	2516.6	2521.9	2504.9	2479.5	2422.2	2354.2	2281.0	2150.4
25°	2513.4	2520.9	2579.2	2637.6	2623.8	2598.4	2563.3	2498.6	2421.1	2350.0	2209.9
27.5°	2657.8	2666.3	2723.6	2774.5	2738.5	2708.7	2669.5	2588.8	2510.3	2445.5	2286.3
30°	2813.8	2821.3	2872.2	2917.8	2870.1	2835.1	2788.3	2705.6	2626.0	2577.1	2394.6
32.5°	2964.5	2963.5	3012.3	3049.5	3000.6	2973.0	2930.6	2846.7	2783.0	2761.8	2555.9
35°	3104.7	3104.7	3145.0	3182.1	3147.1	3132.2	3093.0	3026.1	2990.0	3015.5	2771.4
37.5°	3245.8	3238.4	3276.6	3318.0	3314.8	3315.9	3293.6	3261.7	3263.9	3354.1	3067.5
40°	3362.6	3359.4	3404.0	3458.1	3500.6	3534.5	3520.7	3532.4	3599.3	3768.0	3446.4
42.5°	3456.0	3463.4	3520.7	3606.7	3713.9	3782.9	3792.5	3840.2	4012.2	4273.3	3874.2
45°	3563.2	3564.2	3643.9	3775.5	3946.4	4055.7	4093.9	4217.0	4461.1	4797.6	4343.3
47.5°	3694.8	3682.1	3771.2	3955.9	4203.2	4364.6	4432.5	4586.4	4964.3	5309.2	4725.4
50°	3840.2	3816.9	3917.7	4169.3	4490.9	4692.5	4830.5	5055.5	5463.1	5729.5	5009.9
52.5°	4009.0	3986.7	4101.3	4414.4	4835.8	5081.0	5258.3	5485.4	5890.9	6050.1	5179.7
55°	4223.4	4201.1	4322.1	4708.5	5243.4	5561.8	5747.6	5938.6	6288.9	6286.8	5302.8
57.5°	4461.1	4430.4	4598.1	5080.0	5751.8	6083.0	6271.9	6365.3	6591.4	6470.4	5385.6
60°	4733.9	4706.3	4938.8	5522.6	6338.8	6645.5	6764.4	6726.2	6839.8	6578.7	5357.0
62.5°	4980.2	4967.4	5256.1	5991.7	6898.2	7157.1	7190.1	7023.4	7022.3	6580.8	5163.8
65°	5236.0	5260.4	5689.2	6532.0	7460.7	7634.8	7578.5	7318.5	7095.6	6320.8	4592.8
67.5°	5331.5	5402.6	5974.7	7020.2	7904.4	8040.2	7941.5	7466.0	6791.0	5446.1	3497.4
70°	4741.4	4875.1	5705.1	7047.8	8088.0	8217.5	7980.8	7069.1	5661.6	3607.8	1915.9
72.5°	3605.6	3761.7	4754.1	5770.9	7273.9	7569.0	7164.6	5759.3	3649.2	1580.5	643.2
75°	2017.8	2186.5	3540.9	4345.4	4883.6	5153.2	5004.6	3694.8	1616.5	412.9	192.1
77.5°	682.5	738.7	1647.3	2688.6	3223.5	2981.5	2524.1	1835.2	594.4	157.1	101.9
80°	404.4	425.6	613.5	1338.4	1696.1	1406.4	1110.2	678.2	302.5	83.9	71.1
82.5°	121.0	143.3	338.6	496.7	664.4	414.0	350.3	387.4	157.1	45.6	59.4
85°	0.0	0.0	72.2	153.9	174.1	67.9	67.9	219.7	28.7	19.1	43.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.3	3.2	4.2	9.6
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°	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5	1979.5
2.5°	1966.8	1929.7	1886.1	1844.7	1805.5	1754.5	1730.1	1700.4	1674.9	1661.1	1668.6
5°	1927.5	1869.2	1780.0	1689.8	1598.5	1512.5	1435.0	1383.0	1336.3	1311.9	1317.2
7.5°	1893.6	1815.0	1676.0	1528.4	1382.0	1234.4	1114.5	1021.1	948.9	919.2	913.9
10°	1878.7	1780.0	1583.6	1371.4	1146.3	947.8	778.0	675.1	601.8	565.7	572.1
12.5°	1886.1	1762.0	1505.1	1217.4	925.6	694.2	531.8	435.2	383.2	361.9	356.6
15°	1907.4	1757.7	1435.0	1060.4	714.3	485.1	367.3	328.0	317.4	315.2	315.2
17.5°	1931.8	1758.8	1362.9	901.1	542.4	359.8	314.2	306.8	303.6	301.4	302.5
20°	1956.2	1758.8	1280.1	739.8	407.6	311.0	299.3	294.0	290.8	289.8	289.8
22.5°	1985.9	1758.8	1187.7	590.1	326.9	295.1	285.5	282.3	279.2	278.1	277.0
25°	2022.0	1759.8	1085.8	461.7	297.2	281.3	273.8	270.7	267.5	265.4	265.4
27.5°	2074.0	1768.3	973.3	359.8	280.2	268.5	262.2	259.0	255.8	252.6	252.6
30°	2149.4	1789.6	847.0	297.2	264.3	254.7	248.4	246.2	243.1	239.9	238.8
32.5°	2261.9	1826.7	716.5	266.4	249.4	239.9	232.5	230.3	227.1	224.0	222.9
35°	2419.0	1894.6	589.1	247.3	230.3	220.8	216.5	215.5	211.2	208.0	208.0
37.5°	2649.3	2005.0	467.0	228.2	214.4	207.0	201.7	199.5	195.3	192.1	191.1
40°	2930.6	2148.3	363.0	213.3	199.5	192.1	186.8	183.6	178.3	174.1	171.9
42.5°	3289.3	2323.4	286.6	197.4	185.7	178.3	174.1	167.7	160.3	153.9	152.8
45°	3663.0	2503.9	236.7	182.6	173.0	166.6	161.3	152.8	142.2	134.8	132.7
47.5°	3949.5	2616.4	207.0	166.6	159.2	153.9	147.5	136.9	124.2	115.7	113.6
50°	4154.4	2633.4	184.7	151.8	147.5	142.2	132.7	119.9	106.1	97.7	95.5
52.5°	4255.2	2557.0	166.6	138.0	134.8	129.5	117.8	104.0	89.2	80.7	78.5
55°	4300.9	2412.6	149.7	126.3	122.1	115.7	103.0	88.1	73.2	65.8	63.7
57.5°	4282.8	2199.3	134.8	114.6	109.3	101.9	88.1	72.2	60.5	53.1	52.0
60°	4149.1	1899.9	119.9	103.0	96.6	88.1	74.3	59.4	48.8	43.5	42.5
62.5°	3860.4	1528.4	105.1	89.2	84.9	76.4	63.7	48.8	40.3	37.1	36.1
65°	3269.2	1080.5	90.2	75.4	73.2	64.7	53.1	40.3	35.0	32.9	31.8
67.5°	2350.0	657.0	76.4	64.7	62.6	55.2	44.6	35.0	31.8	30.8	30.8
70°	1181.4	311.0	60.5	53.1	53.1	45.6	38.2	31.8	30.8	29.7	29.7
72.5°	401.2	132.7	45.6	41.4	43.5	39.3	32.9	29.7	29.7	29.7	29.7
75°	136.9	70.1	31.8	29.7	31.8	31.8	28.7	28.7	29.7	29.7	29.7
77.5°	89.2	46.7	22.3	20.2	24.4	24.4	24.4	26.5	28.7	28.7	28.7
80°	73.2	25.5	14.9	13.8	18.0	18.0	20.2	24.4	26.5	26.5	26.5
82.5°	62.6	15.9	8.5	9.6	12.7	13.8	17.0	20.2	23.4	24.4	24.4
85°	42.5	8.5	6.4	7.4	8.5	10.6	13.8	17.0	19.1	21.2	21.2
87.5°	11.7	3.2	4.2	5.3	5.3	7.4	10.6	12.7	14.9	15.9	15.9
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)