

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: P633362

Luminaire Tested: GWS-SA2E-750-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633362
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11759.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

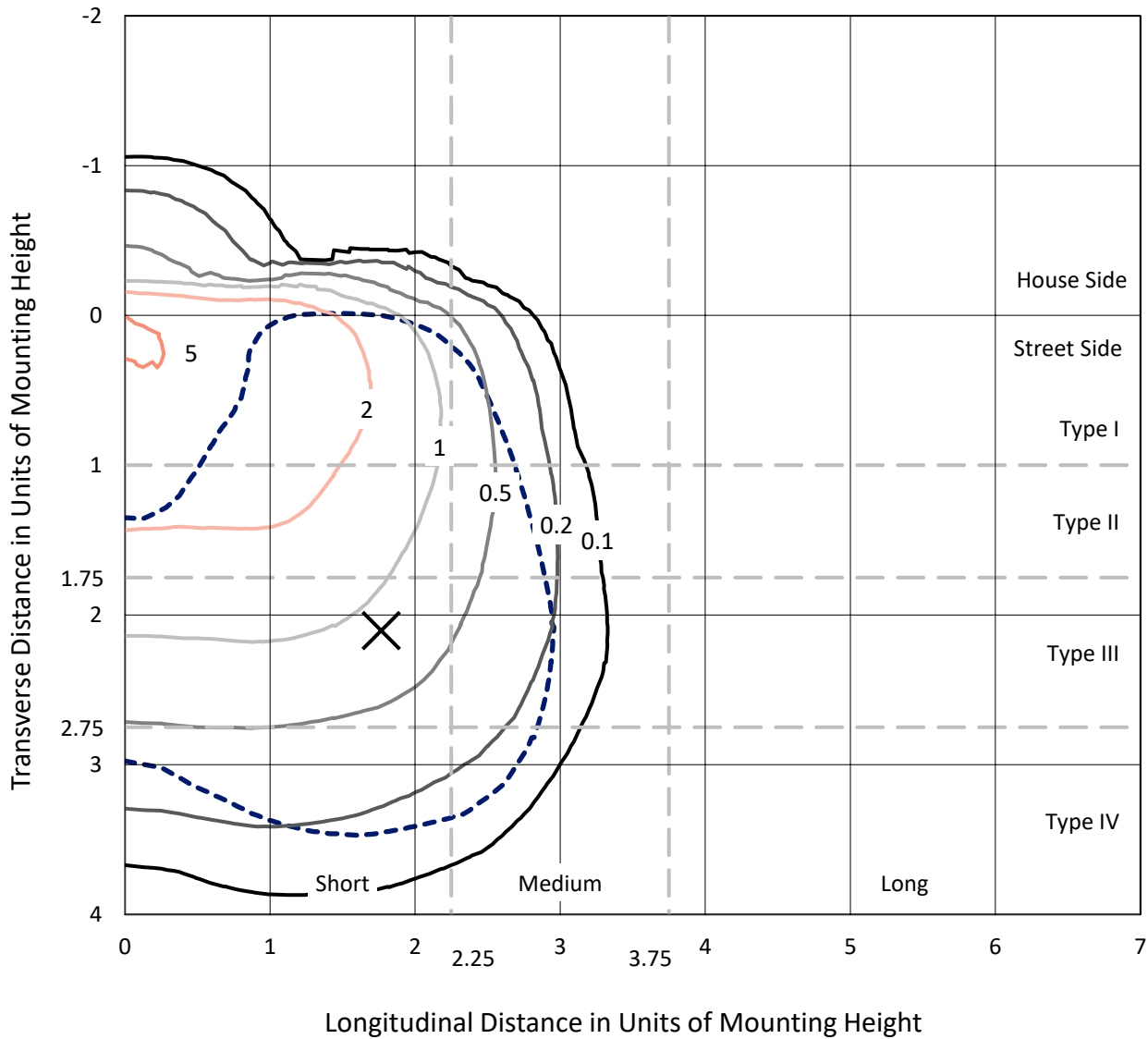
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

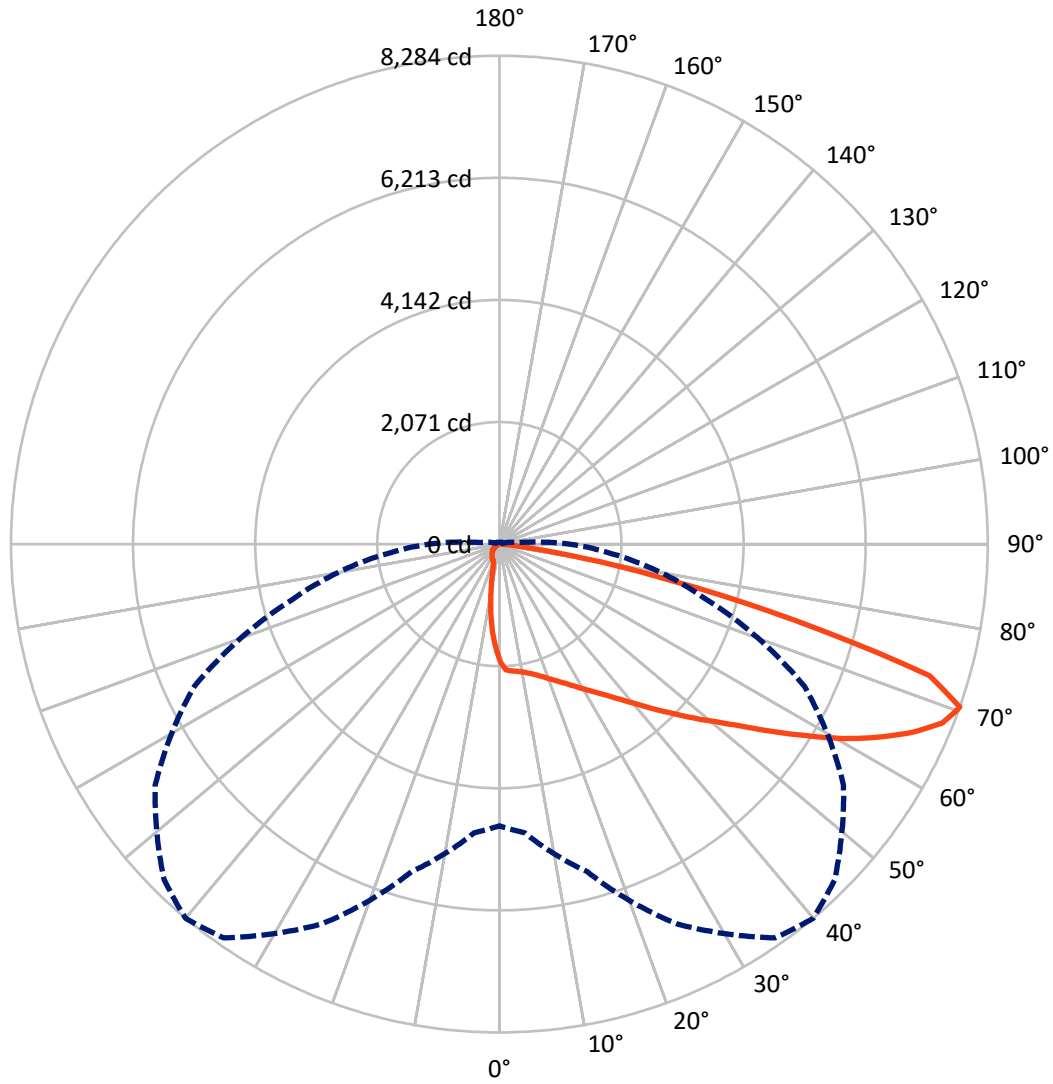
✕ Max cd
 - - - 1/2 Max cd



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	961.7	0.0	961.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	10798.2	0.0	10798.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	11759.9	0.0	11759.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.4
10°-20°	427.8	3.6
20°-30°	715.9	6.1
30°-40°	1124.5	9.6
40°-50°	1778.6	15.1
50°-60°	2594.6	22.1
60°-70°	3216.3	27.4
70°-80°	1627.3	13.8
80°-90°	106.2	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°	11759.9	100.0
0°-180°	11759.9	100.0

Coefficient of Utilization



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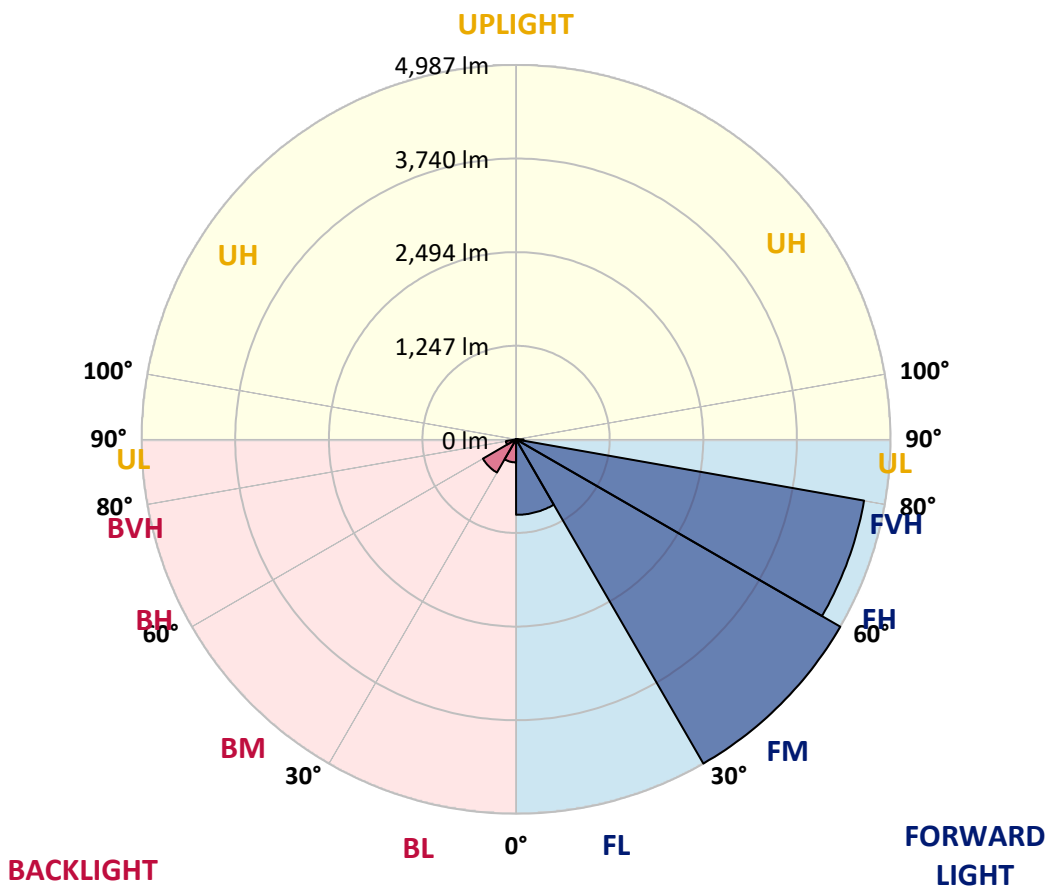
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.3	8.5			
FM (30°-60°)	4987.2	42.4			
FH (60°-80°)	4706.5	40.0			G2/5000
FVH (80°-90°)	99.2	0.8			G1/100
BL (0°-30°)	307.1	2.6	B1/500		
BM (30°-60°)	510.4	4.3	B1/1000		
BH (60°-80°)	137.1	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°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	2145.3	2152.8	2151.7	2154.9	2147.5	2135.7	2133.5	2117.5	2088.6	2052.2	2011.6
5°	2189.2	2197.7	2191.3	2188.1	2174.2	2161.4	2158.2	2141.0	2107.9	2058.6	1988.0
7.5°	2226.6	2228.8	2224.5	2217.0	2196.7	2179.6	2167.8	2144.2	2104.7	2055.4	1974.1
10°	2233.0	2232.0	2234.1	2235.2	2222.3	2207.4	2197.7	2165.6	2115.4	2062.9	1975.2
12.5°	2225.6	2225.6	2239.5	2255.5	2255.5	2248.0	2238.4	2209.5	2150.7	2088.6	1996.6
15°	2235.2	2238.4	2265.1	2295.1	2304.7	2297.2	2293.0	2263.0	2202.0	2133.5	2035.1
17.5°	2269.4	2272.6	2315.4	2360.4	2372.1	2363.6	2355.0	2325.1	2259.8	2184.9	2079.0
20°	2319.7	2328.3	2382.8	2440.6	2451.3	2440.6	2423.5	2381.8	2316.5	2240.5	2120.7
22.5°	2411.7	2417.1	2475.9	2536.9	2542.3	2525.2	2499.5	2441.7	2373.2	2299.4	2167.8
25°	2533.7	2541.2	2600.1	2658.9	2645.0	2619.3	2584.0	2518.7	2440.6	2368.9	2227.7
27.5°	2679.2	2687.8	2745.6	2796.9	2760.6	2730.6	2691.0	2609.7	2530.5	2465.2	2304.7
30°	2836.5	2844.0	2895.4	2941.4	2893.2	2857.9	2810.8	2727.4	2647.1	2597.9	2413.9
32.5°	2988.5	2987.4	3036.6	3074.1	3024.8	2997.0	2954.2	2869.7	2805.5	2784.1	2576.5
35°	3129.7	3129.7	3170.4	3207.8	3172.5	3157.5	3117.9	3050.5	3014.1	3039.8	2793.7
37.5°	3272.0	3264.5	3303.0	3344.8	3341.5	3342.6	3320.2	3288.1	3290.2	3381.1	3092.2
40°	3389.7	3386.5	3431.4	3486.0	3528.8	3563.0	3549.1	3560.9	3628.3	3798.4	3474.2
42.5°	3483.9	3491.3	3549.1	3635.8	3743.9	3813.4	3823.0	3871.2	4044.5	4307.7	3905.4
45°	3591.9	3593.0	3673.2	3805.9	3978.2	4088.4	4126.9	4251.0	4497.1	4836.3	4378.4
47.5°	3724.6	3711.8	3801.6	3987.8	4237.1	4399.8	4468.2	4623.4	5004.3	5352.0	4763.6
50°	3871.2	3847.7	3949.3	4202.9	4527.1	4730.4	4869.5	5096.3	5507.2	5775.8	5050.3
52.5°	4041.3	4018.8	4134.4	4450.0	4874.8	5122.0	5300.7	5529.7	5938.4	6098.9	5221.5
55°	4257.5	4235.0	4357.0	4746.4	5285.7	5606.7	5793.9	5986.5	6339.6	6337.5	5345.6
57.5°	4497.1	4466.1	4635.2	5120.9	5798.2	6132.1	6322.5	6416.7	6644.6	6522.6	5429.1
60°	4772.1	4744.3	4978.6	5567.1	6389.9	6699.1	6819.0	6780.5	6895.0	6631.7	5400.2
62.5°	5020.3	5007.5	5298.5	6040.0	6953.8	7214.9	7248.0	7080.1	7079.0	6633.9	5205.5
65°	5278.2	5302.8	5735.1	6584.7	7520.9	7696.4	7639.7	7377.5	7152.8	6371.7	4629.8
67.5°	5374.5	5446.2	6022.9	7076.9	7968.1	8105.1	8005.6	7526.2	6845.7	5490.1	3525.6
70°	4779.6	4914.4	5751.1	7104.7	8153.3	8283.8	8045.2	7126.1	5707.3	3636.9	1931.3
72.5°	3634.7	3792.0	4792.4	5817.5	7332.6	7630.0	7222.4	5805.7	3678.6	1593.2	648.4
75°	2034.0	2204.2	3569.5	4380.5	4923.0	5194.8	5045.0	3724.6	1629.6	416.2	193.7
77.5°	688.0	744.7	1660.6	2710.3	3249.5	3005.6	2544.4	1850.0	599.2	158.4	102.7
80°	407.7	429.1	618.4	1349.2	1709.8	1417.7	1119.2	683.7	304.9	84.5	71.7
82.5°	122.0	144.4	341.3	500.8	669.8	417.3	353.1	390.5	158.4	46.0	59.9
85°	0.0	0.0	72.8	155.1	175.5	68.5	68.5	221.5	28.9	19.3	43.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.3	3.2	4.3	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°	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5	1995.5
2.5°	1982.7	1945.2	1901.4	1859.6	1820.0	1768.7	1744.1	1714.1	1688.4	1674.5	1682.0
5°	1943.1	1884.2	1794.4	1703.4	1611.4	1524.7	1446.6	1394.2	1347.1	1322.5	1327.8
7.5°	1908.8	1829.7	1689.5	1540.8	1393.1	1244.4	1123.5	1029.3	956.6	926.6	921.3
10°	1893.9	1794.4	1596.4	1382.4	1155.6	955.5	784.3	680.5	606.7	570.3	576.7
12.5°	1901.4	1776.2	1517.2	1227.3	933.0	699.8	536.1	438.7	386.3	364.9	359.5
15°	1922.8	1771.9	1446.6	1068.9	720.1	489.0	370.2	330.6	319.9	317.8	317.8
17.5°	1947.4	1773.0	1373.9	908.4	546.8	362.7	316.7	309.2	306.0	303.9	304.9
20°	1972.0	1773.0	1290.4	745.8	410.9	313.5	301.7	296.4	293.2	292.1	292.1
22.5°	2001.9	1773.0	1197.3	594.9	329.6	297.5	287.8	284.6	281.4	280.3	279.3
25°	2038.3	1774.0	1094.6	465.4	299.6	283.5	276.1	272.8	269.6	267.5	267.5
27.5°	2090.7	1782.6	981.2	362.7	282.5	270.7	264.3	261.1	257.9	254.7	254.7
30°	2166.7	1804.0	853.8	299.6	266.4	256.8	250.4	248.2	245.0	241.8	240.7
32.5°	2280.1	1841.4	722.2	268.6	251.4	241.8	234.3	232.2	229.0	225.8	224.7
35°	2438.5	1909.9	593.8	249.3	232.2	222.6	218.3	217.2	212.9	209.7	209.7
37.5°	2670.7	2021.2	470.8	230.0	216.1	208.6	203.3	201.2	196.9	193.7	192.6
40°	2954.2	2165.6	365.9	215.1	201.2	193.7	188.3	185.1	179.8	175.5	173.3
42.5°	3315.9	2342.2	288.9	199.0	187.2	179.8	175.5	169.1	161.6	155.1	154.1
45°	3692.5	2524.1	238.6	184.0	174.4	168.0	162.6	154.1	143.4	135.9	133.7
47.5°	3981.4	2637.5	208.6	168.0	160.5	155.1	148.7	138.0	125.2	116.6	114.5
50°	4187.9	2654.6	186.2	153.0	148.7	143.4	133.7	120.9	107.0	98.4	96.3
52.5°	4289.6	2577.6	168.0	139.1	135.9	130.5	118.8	104.9	89.9	81.3	79.2
55°	4335.6	2432.1	150.9	127.3	123.0	116.6	103.8	88.8	73.8	66.3	64.2
57.5°	4317.4	2217.0	135.9	115.6	110.2	102.7	88.8	72.8	61.0	53.5	52.4
60°	4182.6	1915.3	120.9	103.8	97.4	88.8	74.9	59.9	49.2	43.9	42.8
62.5°	3891.5	1540.8	105.9	89.9	85.6	77.0	64.2	49.2	40.7	37.4	36.4
65°	3295.5	1089.2	90.9	76.0	73.8	65.3	53.5	40.7	35.3	33.2	32.1
67.5°	2368.9	662.3	77.0	65.3	63.1	55.6	44.9	35.3	32.1	31.0	31.0
70°	1190.9	313.5	61.0	53.5	53.5	46.0	38.5	32.1	31.0	30.0	30.0
72.5°	404.5	133.7	46.0	41.7	43.9	39.6	33.2	30.0	30.0	30.0	30.0
75°	138.0	70.6	32.1	30.0	32.1	32.1	28.9	28.9	30.0	30.0	30.0
77.5°	89.9	47.1	22.5	20.3	24.6	24.6	24.6	26.7	28.9	28.9	28.9
80°	73.8	25.7	15.0	13.9	18.2	18.2	20.3	24.6	26.7	26.7	26.7
82.5°	63.1	16.0	8.6	9.6	12.8	13.9	17.1	20.3	23.5	24.6	24.6
85°	42.8	8.6	6.4	7.5	8.6	10.7	13.9	17.1	19.3	21.4	21.4
87.5°	11.8	3.2	4.3	5.3	5.3	7.5	10.7	12.8	15.0	16.0	16.0
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)