

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: P637542

Luminaire Tested: GWS-SA4D-722-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637542
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14212.7 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

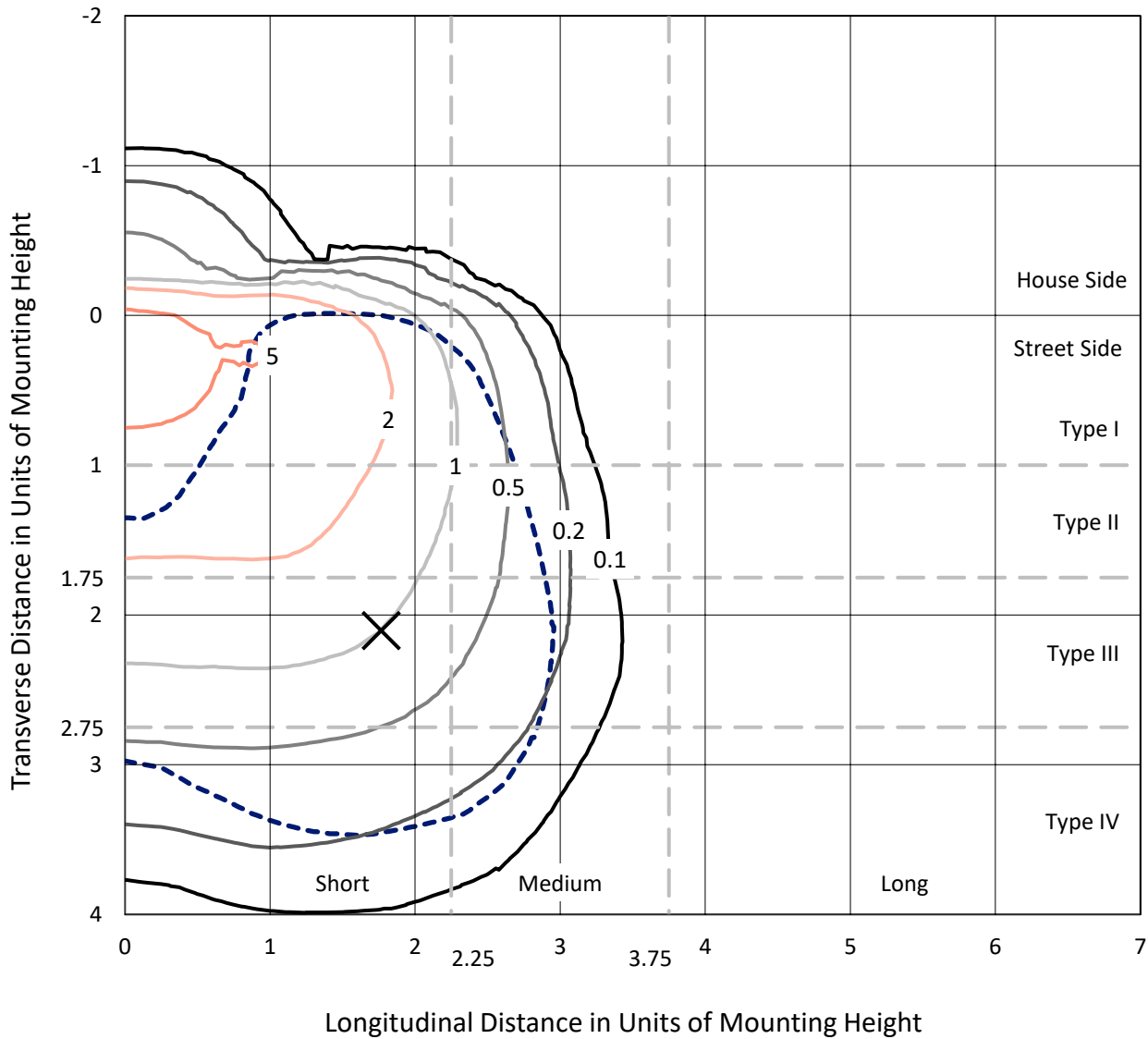
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

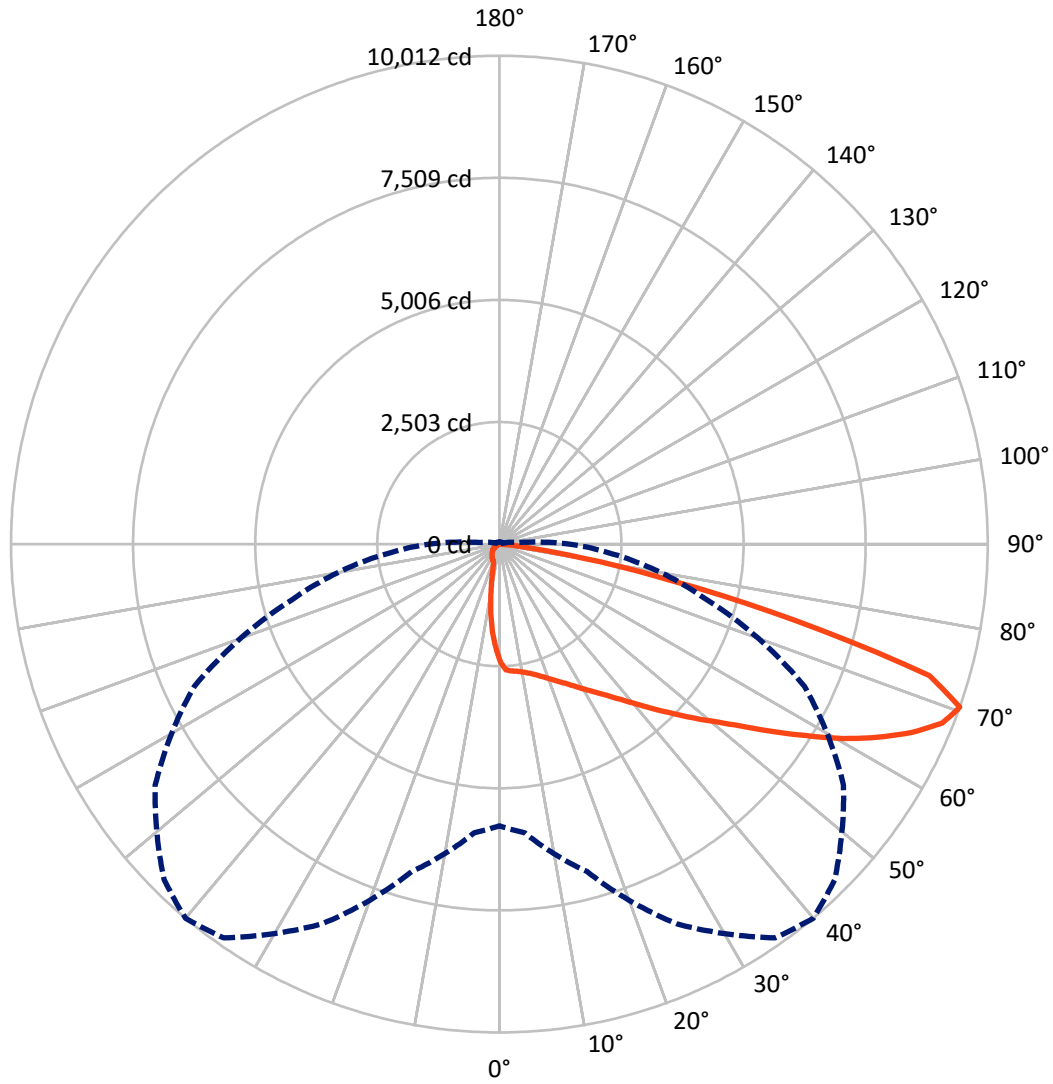
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	1162.2	0.0	1162.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	13050.5	0.0	13050.5
	% Fixture	91.8	0.0	91.8
Total	Lumens	14212.7	0.0	14212.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.4
10°-20°	517.0	3.6
20°-30°	865.3	6.1
30°-40°	1359.0	9.6
40°-50°	2149.6	15.1
50°-60°	3135.7	22.1
60°-70°	3887.2	27.4
70°-80°	1966.7	13.8
80°-90°	128.4	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°	14212.7	100.0
0°-180°	14212.7	100.0

Coefficient of Utilization



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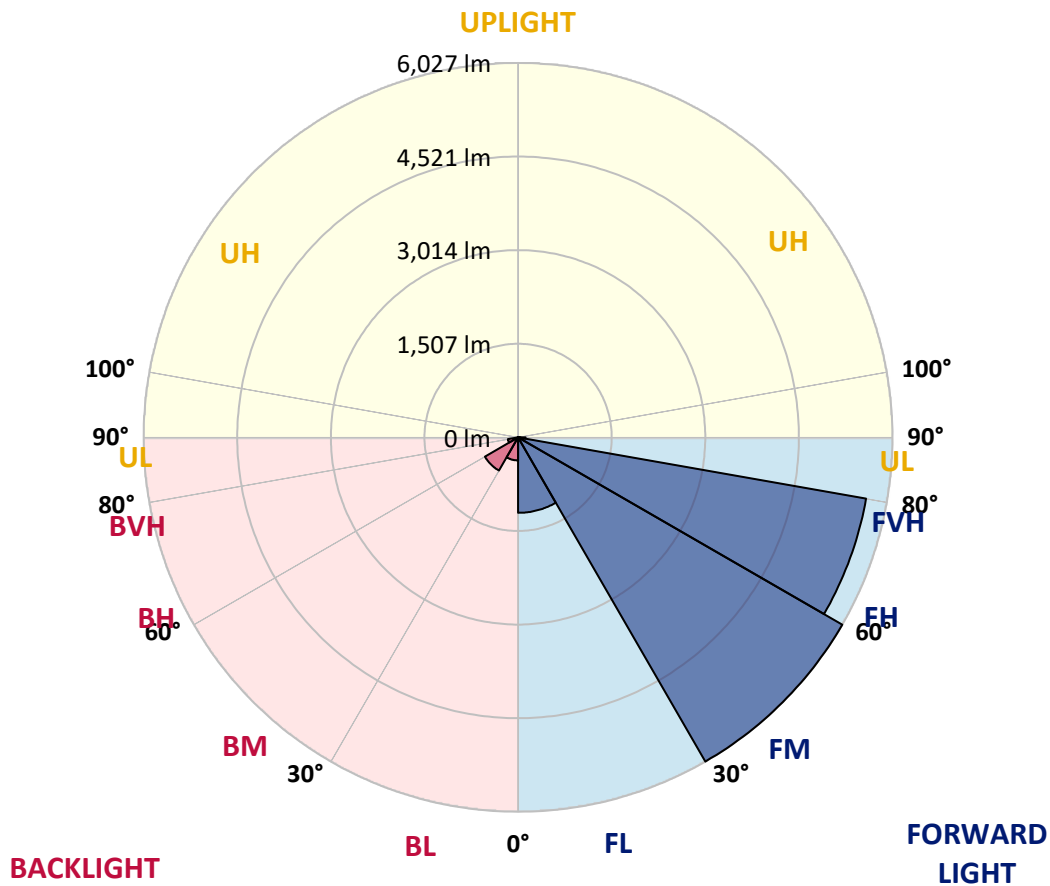
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.9	8.5			
FM (30°-60°)	6027.4	42.4			
FH (60°-80°)	5688.2	40.0			G3/7500
FVH (80°-90°)	119.9	0.8			G2/225
BL (0°-30°)	371.2	2.6	B1/500		
BM (30°-60°)	616.9	4.3	B1/1000		
BH (60°-80°)	165.7	1.2	B1/500		G1/500
BVH (80°-90°)	8.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7
2.5°	2592.8	2601.8	2600.5	2604.4	2595.4	2581.1	2578.5	2559.1	2524.2	2480.3	2431.1
5°	2645.8	2656.1	2648.4	2644.5	2627.7	2612.2	2608.3	2587.6	2547.5	2488.0	2402.7
7.5°	2691.0	2693.6	2688.5	2679.4	2654.8	2634.1	2619.9	2591.5	2543.6	2484.1	2385.9
10°	2698.8	2697.5	2700.1	2701.4	2685.9	2667.8	2656.1	2617.3	2556.6	2493.2	2387.2
12.5°	2689.8	2689.8	2706.6	2726.0	2726.0	2716.9	2705.3	2670.4	2599.2	2524.2	2413.0
15°	2701.4	2705.3	2737.6	2773.8	2785.4	2776.4	2771.2	2735.0	2661.3	2578.5	2459.6
17.5°	2742.8	2746.7	2798.4	2852.7	2866.9	2856.6	2846.2	2810.0	2731.1	2640.6	2512.6
20°	2803.5	2813.9	2879.8	2949.7	2962.6	2949.7	2929.0	2878.6	2799.7	2707.9	2563.0
22.5°	2914.8	2921.2	2992.3	3066.1	3072.5	3051.8	3020.8	2951.0	2868.2	2779.0	2619.9
25°	3062.2	3071.2	3142.4	3213.5	3196.7	3165.6	3123.0	3044.1	2949.7	2863.0	2692.3
27.5°	3238.0	3248.4	3318.2	3380.3	3336.3	3300.1	3252.3	3154.0	3058.3	2979.4	2785.4
30°	3428.1	3437.2	3499.3	3554.9	3496.7	3454.0	3397.1	3296.2	3199.3	3139.8	2917.3
32.5°	3611.8	3610.5	3670.0	3715.2	3655.7	3622.1	3570.4	3468.2	3390.6	3364.8	3113.9
35°	3782.5	3782.5	3831.6	3876.9	3834.2	3816.1	3768.2	3686.8	3642.8	3673.8	3376.4
37.5°	3954.5	3945.4	3992.0	4042.4	4038.5	4039.8	4012.6	3973.9	3976.4	4086.4	3737.2
40°	4096.7	4092.8	4147.1	4213.1	4264.8	4306.2	4289.4	4303.6	4385.1	4590.7	4198.9
42.5°	4210.5	4219.5	4289.4	4394.1	4524.7	4608.8	4620.4	4678.6	4888.1	5206.2	4720.0
45°	4341.1	4342.4	4439.4	4599.7	4807.9	4941.1	4987.7	5137.7	5435.1	5845.0	5291.6
47.5°	4501.5	4485.9	4594.6	4819.6	5120.9	5317.4	5400.2	5587.7	6048.1	6468.3	5757.1
50°	4678.6	4650.2	4773.0	5079.5	5471.3	5717.0	5885.1	6159.3	6655.8	6980.4	6103.7
52.5°	4884.2	4857.1	4996.7	5378.2	5891.6	6190.3	6406.3	6683.0	7177.0	7371.0	6310.6
55°	5145.4	5118.3	5265.7	5736.4	6388.2	6776.1	7002.4	7235.2	7661.9	7659.3	6460.6
57.5°	5435.1	5397.6	5601.9	6189.0	7007.6	7411.0	7641.2	7755.0	8030.5	7883.0	6561.4
60°	5767.4	5733.8	6017.0	6728.3	7722.7	8096.4	8241.2	8194.7	8333.1	8014.9	6526.5
62.5°	6067.5	6051.9	6403.7	7299.8	8404.2	8719.7	8759.8	8556.8	8555.5	8017.5	6291.2
65°	6379.1	6408.9	6931.3	7958.0	9089.6	9301.6	9233.1	8916.3	8644.7	7700.7	5595.5
67.5°	6495.5	6582.1	7279.1	8552.9	9630.1	9795.6	9675.3	9096.0	8273.6	6635.2	4260.9
70°	5776.5	5939.4	6950.7	8586.5	9853.8	10011.6	9723.2	8612.4	6897.7	4395.4	2334.1
72.5°	4392.8	4582.9	5792.0	7030.9	8862.0	9221.5	8728.8	7016.6	4445.8	1925.5	783.6
75°	2458.3	2663.9	4313.9	5294.2	5949.8	6278.2	6097.2	4501.5	1969.5	503.0	234.1
77.5°	831.5	900.0	2007.0	3275.5	3927.3	3632.5	3075.1	2235.9	724.2	191.4	124.1
80°	492.7	518.6	747.4	1630.7	2066.5	1713.4	1352.6	826.3	368.5	102.2	86.6
82.5°	147.4	174.6	412.5	605.2	809.5	504.3	426.7	472.0	191.4	55.6	72.4
85°	0.0	0.0	87.9	187.5	212.1	82.8	82.8	267.7	34.9	23.3	53.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.5	3.9	5.2	11.6
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°	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7
2.5°	2396.2	2350.9	2297.9	2247.5	2199.6	2137.6	2107.8	2071.6	2040.6	2023.8	2032.8
5°	2348.4	2277.2	2168.6	2058.7	1947.5	1842.7	1748.3	1685.0	1628.1	1598.3	1604.8
7.5°	2307.0	2211.3	2041.9	1862.1	1683.7	1503.9	1357.8	1244.0	1156.1	1119.9	1113.4
10°	2288.9	2168.6	1929.4	1670.7	1396.6	1154.8	947.9	822.4	733.2	689.2	697.0
12.5°	2297.9	2146.6	1833.7	1483.2	1127.6	845.7	647.9	530.2	466.8	441.0	434.5
15°	2323.8	2141.5	1748.3	1291.9	870.3	591.0	447.4	399.6	386.7	384.1	384.1
17.5°	2353.5	2142.7	1660.4	1097.9	660.8	438.4	382.8	373.7	369.8	367.3	368.5
20°	2383.3	2142.7	1559.5	901.3	496.6	378.9	364.7	358.2	354.3	353.0	353.0
22.5°	2419.5	2142.7	1447.0	719.0	398.3	359.5	347.9	344.0	340.1	338.8	337.5
25°	2463.5	2144.0	1322.9	562.5	362.1	342.7	333.6	329.8	325.9	323.3	323.3
27.5°	2526.8	2154.4	1185.8	438.4	341.4	327.2	319.4	315.5	311.6	307.8	307.8
30°	2618.6	2180.3	1031.9	362.1	322.0	310.4	302.6	300.0	296.1	292.3	291.0
32.5°	2755.7	2225.5	872.9	324.6	303.9	292.3	283.2	280.6	276.7	272.9	271.6
35°	2947.1	2308.3	717.7	301.3	280.6	269.0	263.8	262.5	257.3	253.5	253.5
37.5°	3227.7	2442.8	569.0	278.0	261.2	252.2	245.7	243.1	237.9	234.1	232.8
40°	3570.4	2617.3	442.3	259.9	243.1	234.1	227.6	223.7	217.2	212.1	209.5
42.5°	4007.5	2830.7	349.2	240.5	226.3	217.2	212.1	204.3	195.3	187.5	186.2
45°	4462.7	3050.5	288.4	222.4	210.8	203.0	196.6	186.2	173.3	164.2	161.6
47.5°	4811.8	3187.6	252.2	203.0	194.0	187.5	179.7	166.8	151.3	141.0	138.4
50°	5061.4	3208.3	225.0	184.9	179.7	173.3	161.6	146.1	129.3	119.0	116.4
52.5°	5184.2	3115.2	203.0	168.1	164.2	157.8	143.5	126.7	108.6	98.3	95.7
55°	5239.8	2939.3	182.3	153.9	148.7	141.0	125.4	107.3	89.2	80.2	77.6
57.5°	5217.9	2679.4	164.2	139.7	133.2	124.1	107.3	87.9	73.7	64.7	63.4
60°	5054.9	2314.7	146.1	125.4	117.7	107.3	90.5	72.4	59.5	53.0	51.7
62.5°	4703.2	1862.1	128.0	108.6	103.5	93.1	77.6	59.5	49.1	45.3	44.0
65°	3982.9	1316.4	109.9	91.8	89.2	78.9	64.7	49.1	42.7	40.1	38.8
67.5°	2863.0	800.5	93.1	78.9	76.3	67.2	54.3	42.7	38.8	37.5	37.5
70°	1439.3	378.9	73.7	64.7	64.7	55.6	46.6	38.8	37.5	36.2	36.2
72.5°	488.8	161.6	55.6	50.4	53.0	47.8	40.1	36.2	36.2	36.2	36.2
75°	166.8	85.3	38.8	36.2	38.8	38.8	34.9	34.9	36.2	36.2	36.2
77.5°	108.6	56.9	27.2	24.6	29.7	29.7	29.7	32.3	34.9	34.9	34.9
80°	89.2	31.0	18.1	16.8	22.0	22.0	24.6	29.7	32.3	32.3	32.3
82.5°	76.3	19.4	10.3	11.6	15.5	16.8	20.7	24.6	28.4	29.7	29.7
85°	51.7	10.3	7.8	9.1	10.3	12.9	16.8	20.7	23.3	25.9	25.9
87.5°	14.2	3.9	5.2	6.5	6.5	9.1	12.9	15.5	18.1	19.4	19.4
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)