

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: P633253

Luminaire Tested: GWS-SA2E-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13821.1 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

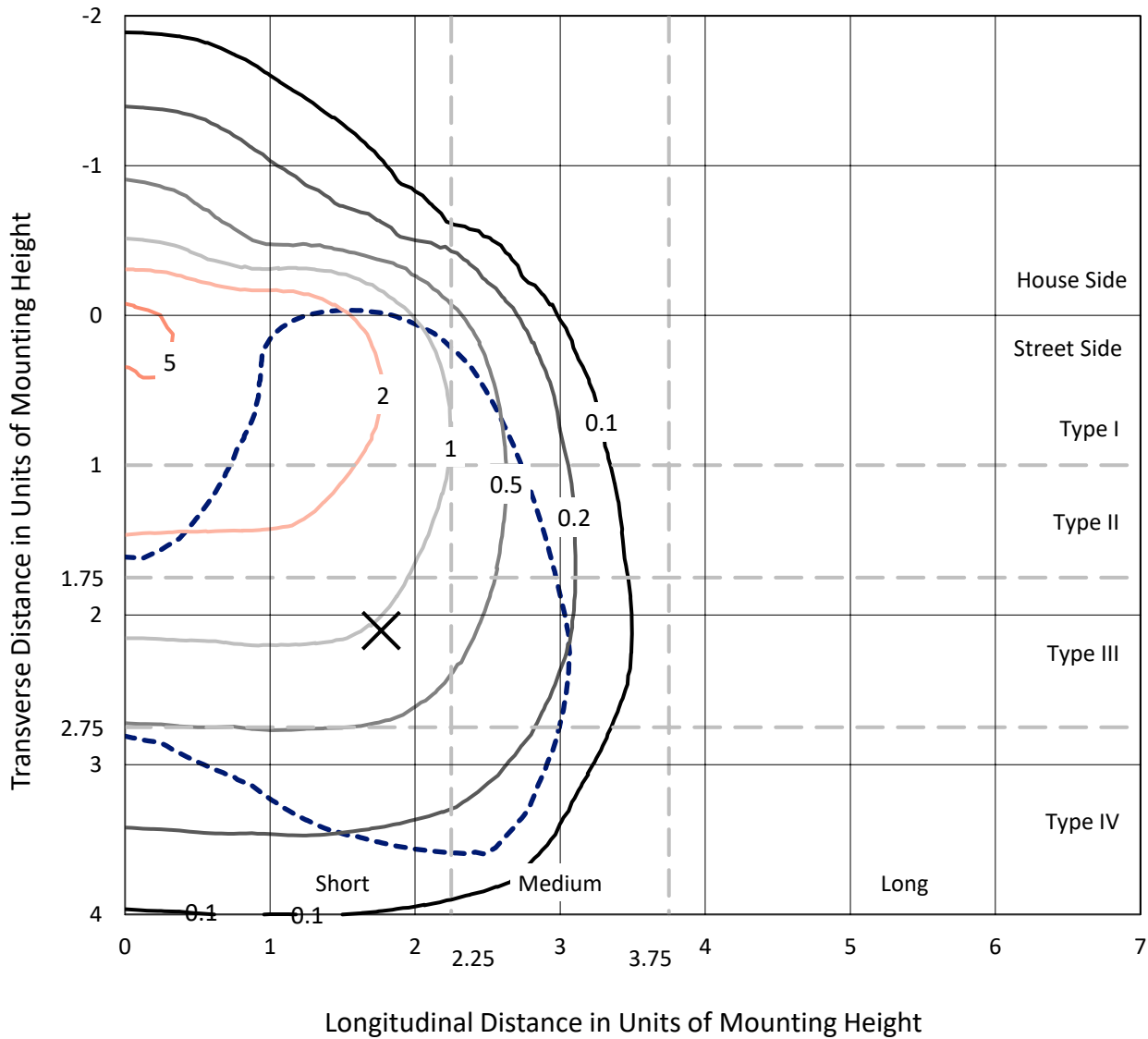
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

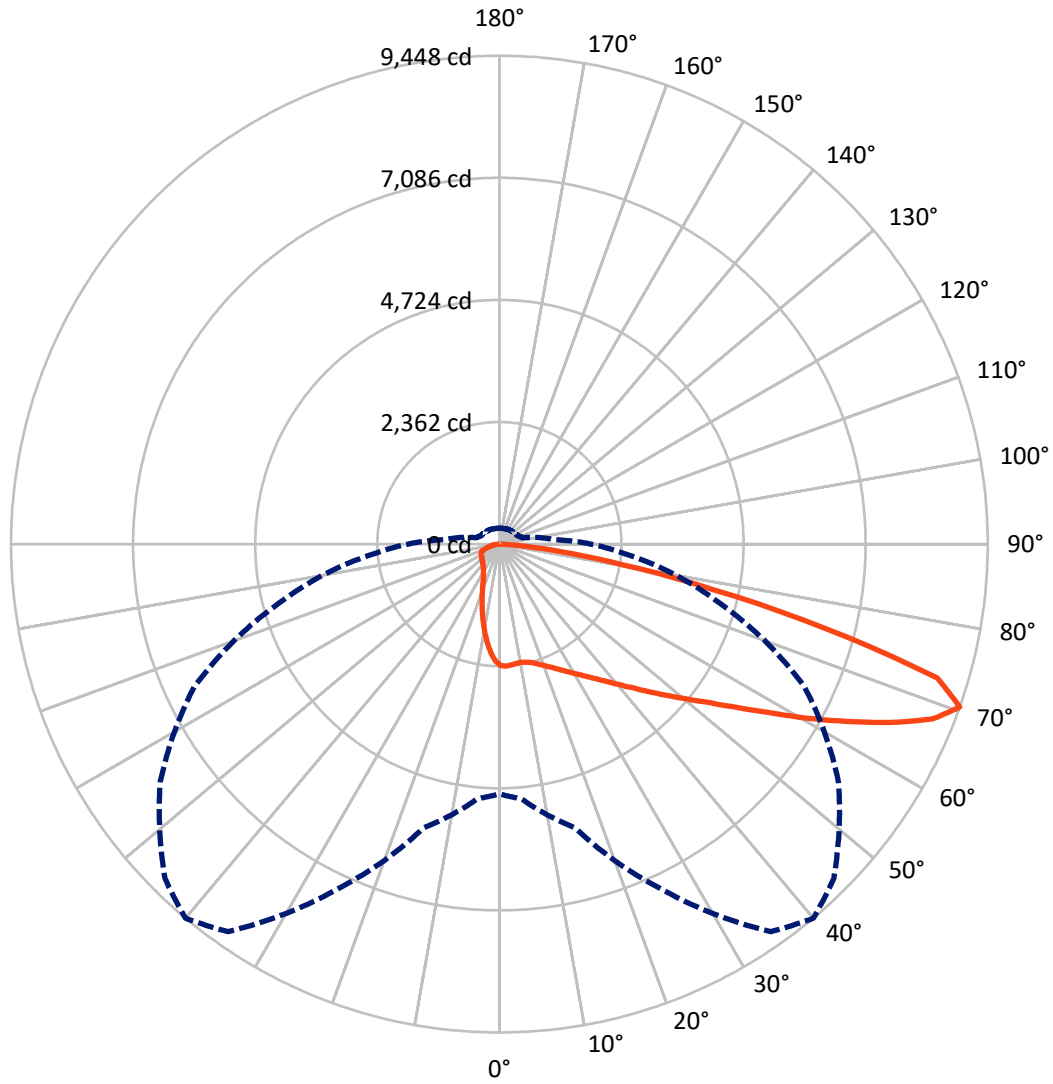
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 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	2128.8	0.0	2128.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11692.3	0.0	11692.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	13821.1	0.0	13821.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	1.5
10°-20°	540.4	3.9
20°-30°	848.6	6.1
30°-40°	1275.9	9.2
40°-50°	1969.3	14.2
50°-60°	2924.6	21.2
60°-70°	3686.5	26.7
70°-80°	2131.8	15.4
80°-90°	236.6	1.7
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°	13821.1	100.0
0°-180°	13821.1	100.0

Coefficient of Utilization



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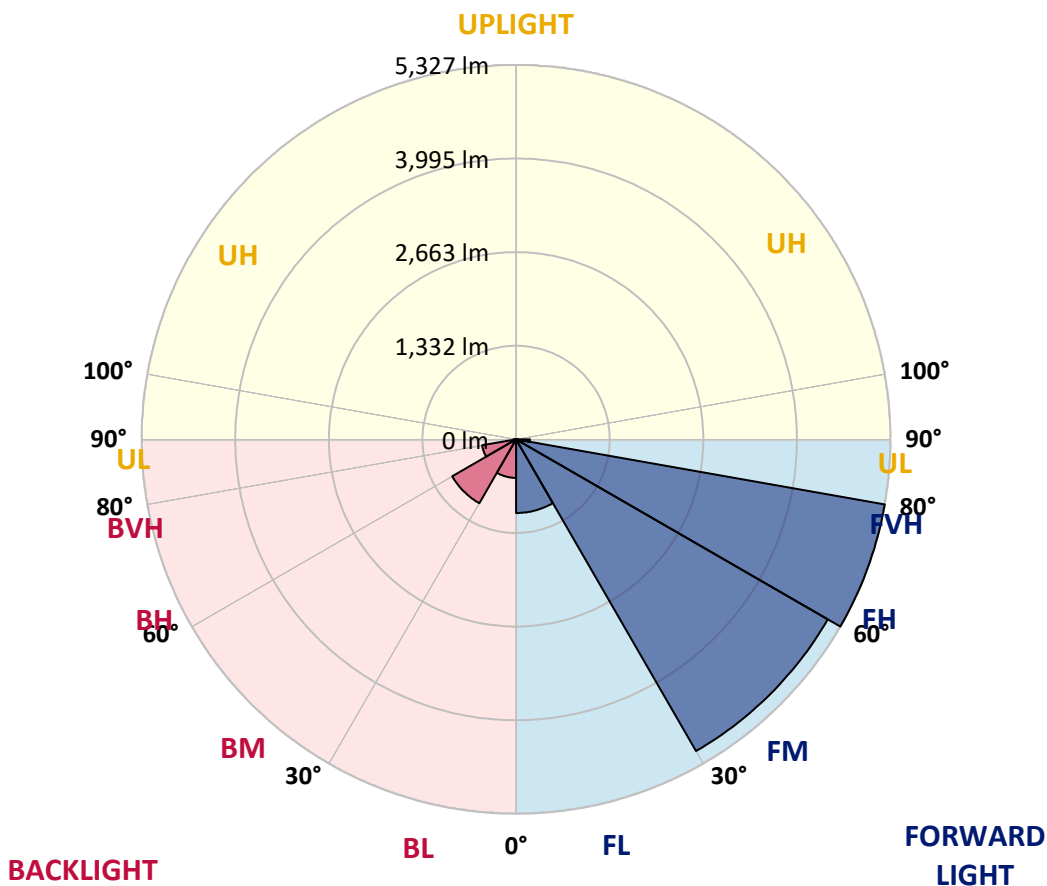
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.7	7.6			
FM (30°-60°)	5120.5	37.0			
FH (60°-80°)	5327.0	38.5			G3/7500
FVH (80°-90°)	197.0	1.4			G2/225
BL (0°-30°)	548.6	4.0	B2/1000		
BM (30°-60°)	1049.3	7.6	B2/2500		
BH (60°-80°)	491.3	3.6	B1/500		G1/500
BVH (80°-90°)	39.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0
2.5°	2361.4	2365.6	2368.6	2372.8	2370.7	2364.5	2369.7	2369.7	2358.3	2345.9	2334.6
5°	2364.5	2369.7	2368.6	2367.6	2359.4	2349.0	2349.0	2342.9	2323.3	2303.7	2285.1
7.5°	2358.3	2357.3	2356.3	2353.2	2343.9	2332.5	2330.5	2318.1	2292.3	2265.5	2238.7
10°	2330.5	2329.4	2332.5	2339.8	2337.7	2327.4	2327.4	2316.0	2286.1	2253.1	2218.0
12.5°	2307.8	2307.8	2320.2	2339.8	2347.0	2342.9	2343.9	2335.6	2301.6	2262.4	2221.1
15°	2310.9	2311.9	2338.7	2370.7	2384.1	2381.0	2382.1	2372.8	2334.6	2295.4	2239.7
17.5°	2331.5	2336.7	2383.1	2427.4	2445.0	2440.9	2433.6	2418.2	2374.8	2330.5	2262.4
20°	2374.8	2383.1	2442.9	2498.6	2519.3	2510.0	2497.6	2466.7	2419.2	2370.7	2287.1
22.5°	2460.5	2465.6	2531.6	2586.3	2602.8	2591.5	2566.7	2522.4	2467.7	2417.1	2317.1
25°	2581.2	2587.4	2650.3	2700.8	2696.7	2683.3	2649.3	2594.6	2529.6	2475.9	2360.4
27.5°	2724.6	2734.9	2796.8	2837.0	2810.2	2790.6	2752.4	2686.4	2613.1	2564.7	2426.4
30°	2881.4	2885.5	2938.1	2978.3	2937.1	2910.3	2863.8	2792.6	2726.6	2690.5	2525.5
32.5°	3033.0	3037.1	3082.5	3105.2	3061.9	3042.3	3002.1	2926.8	2880.3	2860.7	2673.0
35°	3192.9	3191.9	3229.0	3248.6	3204.3	3196.0	3154.8	3097.0	3088.7	3114.5	2888.6
37.5°	3352.8	3343.5	3363.1	3388.9	3364.2	3372.4	3345.6	3326.0	3358.0	3425.0	3175.4
40°	3480.8	3480.8	3501.4	3533.4	3541.6	3577.7	3562.3	3588.0	3691.2	3851.1	3530.3
42.5°	3594.2	3595.3	3638.6	3688.1	3747.9	3803.7	3816.0	3883.1	4096.6	4347.3	3975.9
45°	3712.9	3713.9	3772.7	3844.9	3971.8	4078.1	4102.8	4253.5	4558.8	4864.2	4459.8
47.5°	3850.1	3838.7	3920.2	4040.9	4221.5	4374.2	4438.1	4651.7	5037.5	5413.0	4915.8
50°	4004.8	3981.1	4071.9	4280.3	4503.1	4712.5	4819.8	5064.3	5551.3	5919.6	5344.9
52.5°	4179.2	4165.8	4260.7	4514.5	4854.9	5096.3	5241.8	5562.6	6050.6	6424.0	5685.4
55°	4395.8	4363.8	4501.0	4823.9	5267.6	5575.0	5747.3	6055.7	6596.3	6882.1	5945.3
57.5°	4633.1	4598.0	4781.7	5210.8	5804.0	6141.4	6357.0	6610.7	7110.1	7232.8	6098.0
60°	4888.9	4877.6	5095.3	5664.7	6443.6	6835.6	6991.4	7221.5	7556.8	7436.1	6059.9
62.5°	5123.1	5119.0	5435.7	6156.8	7121.4	7552.6	7676.4	7737.3	7878.6	7422.7	5756.6
65°	5369.7	5404.8	5832.9	6727.3	7898.2	8321.2	8372.8	8218.0	7987.0	7070.9	5135.5
67.5°	5400.6	5468.7	6082.6	7261.7	8634.8	9034.1	8992.8	8400.6	7667.1	6091.8	4025.5
70°	4830.1	4948.8	5684.3	7343.2	9153.7	9447.8	9149.6	8007.6	6506.6	4413.4	2531.6
72.5°	4035.8	4137.9	4787.8	6262.1	8484.2	8858.7	8455.3	6777.9	4598.0	2531.6	1289.6
75°	3141.3	3260.0	3859.4	4977.7	6351.8	6501.4	6299.2	4727.0	2527.5	1044.0	586.0
77.5°	1916.8	2002.4	2468.7	3372.4	4444.3	4220.4	3576.7	2650.3	1109.0	500.3	362.1
80°	848.0	900.6	1216.3	1811.6	2567.8	2427.4	1913.7	1131.7	606.6	317.7	252.8
82.5°	455.0	489.0	599.4	717.0	1127.6	1179.2	956.3	652.0	326.0	181.6	144.4
85°	200.1	219.7	272.4	260.0	370.4	364.2	367.3	447.7	155.8	83.6	93.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	11.3	59.8	15.5	24.8	21.7
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°	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0	2347.0
2.5°	2322.2	2303.7	2298.5	2292.3	2281.0	2261.4	2246.9	2230.4	2223.2	2214.9	2216.0
5°	2264.5	2241.8	2220.1	2192.2	2157.2	2118.0	2091.1	2060.2	2043.7	2028.2	2032.3
7.5°	2214.9	2179.9	2135.5	2076.7	2013.8	1943.6	1886.9	1842.5	1812.6	1792.0	1802.3
10°	2184.0	2142.7	2065.3	1969.4	1863.1	1755.9	1674.4	1598.0	1550.6	1513.4	1511.4
12.5°	2177.8	2124.1	2011.7	1872.4	1718.7	1575.3	1455.6	1352.5	1289.6	1243.1	1260.7
15°	2184.0	2115.9	1965.3	1782.7	1588.7	1394.8	1246.2	1127.6	1052.3	1010.0	1006.9
17.5°	2191.2	2107.6	1912.7	1685.7	1452.5	1230.7	1058.5	932.6	855.2	812.9	814.0
20°	2197.4	2095.3	1850.8	1579.4	1314.3	1078.1	899.6	779.9	710.8	679.9	685.0
22.5°	2207.7	2082.9	1784.7	1466.0	1173.0	930.5	773.7	676.8	635.5	614.9	615.9
25°	2227.3	2075.7	1716.6	1342.2	1033.7	812.9	687.1	622.1	596.3	583.9	582.9
27.5°	2267.5	2081.8	1645.5	1222.5	907.8	723.2	631.4	589.1	571.5	563.3	562.2
30°	2334.6	2106.6	1583.6	1100.8	799.5	653.0	593.2	567.4	557.1	549.9	548.8
32.5°	2436.7	2153.0	1516.5	987.3	711.8	601.4	563.3	549.9	542.6	538.5	538.5
35°	2591.5	2237.6	1450.5	888.2	643.7	561.2	539.5	534.4	528.2	526.1	528.2
37.5°	2814.3	2372.8	1390.7	801.6	595.3	530.3	513.8	515.8	510.7	513.8	516.9
40°	3097.0	2553.3	1340.1	730.4	559.1	507.6	491.1	498.3	495.2	498.3	503.4
42.5°	3455.0	2777.2	1301.9	674.7	533.4	489.0	473.5	480.7	478.7	482.8	488.0
45°	3854.2	3072.2	1284.4	635.5	514.8	475.6	459.1	464.2	462.2	465.3	470.4
47.5°	4236.9	3340.5	1299.9	612.8	499.3	464.2	446.7	448.8	447.7	446.7	449.8
50°	4567.1	3554.0	1344.2	605.6	489.0	452.9	436.4	437.4	434.3	428.1	430.2
52.5°	4836.3	3725.3	1371.0	605.6	483.8	440.5	425.0	426.1	419.9	411.6	412.7
55°	5013.8	3794.4	1349.4	604.5	481.8	430.2	413.7	414.7	408.5	398.2	399.2
57.5°	5064.3	3727.3	1258.6	593.2	479.7	421.9	402.3	404.4	400.3	388.9	388.9
60°	4923.0	3481.8	1092.5	567.4	474.6	416.8	394.1	397.2	395.1	383.8	383.8
62.5°	4552.6	3045.4	894.4	528.2	460.1	410.6	386.9	393.1	398.2	392.0	391.0
65°	3859.4	2439.8	727.3	484.9	441.5	400.3	376.5	392.0	403.4	411.6	411.6
67.5°	2895.8	1746.6	593.2	439.5	413.7	379.6	363.1	377.6	385.8	391.0	394.1
70°	1765.1	1027.5	467.3	386.9	373.5	348.7	336.3	321.9	310.5	308.5	309.5
72.5°	863.5	588.0	379.6	329.1	318.8	296.1	268.2	262.0	256.9	253.8	252.8
75°	475.6	409.6	313.6	273.4	254.8	227.0	220.8	210.5	208.4	204.3	205.3
77.5°	336.3	322.9	258.9	221.8	193.9	179.5	182.6	175.4	175.4	172.3	171.3
80°	252.8	253.8	199.1	162.0	143.4	138.2	141.3	141.3	139.3	138.2	137.2
82.5°	159.9	180.5	134.1	104.2	102.1	103.2	102.1	101.1	103.2	100.1	99.0
85°	110.4	130.0	81.5	61.9	61.9	60.9	62.9	61.9	64.0	60.9	60.9
87.5°	24.8	57.8	29.9	18.6	19.6	18.6	19.6	20.6	22.7	23.7	23.7
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)