

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: P637234

Luminaire Tested: GWS-SA4C-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19158.6 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.5
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

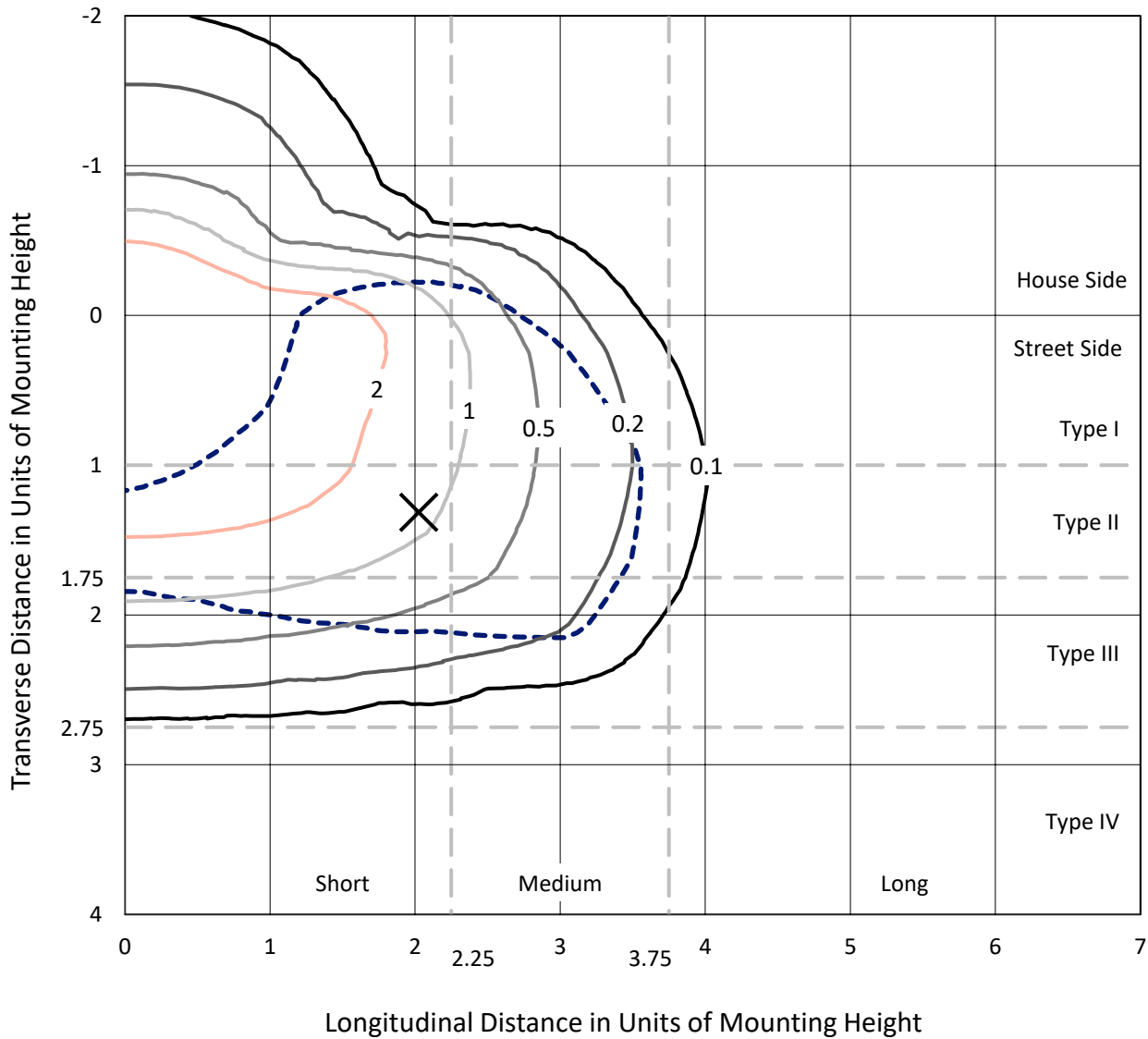


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Iso-Footcandle Lines of Horizontal Illumination

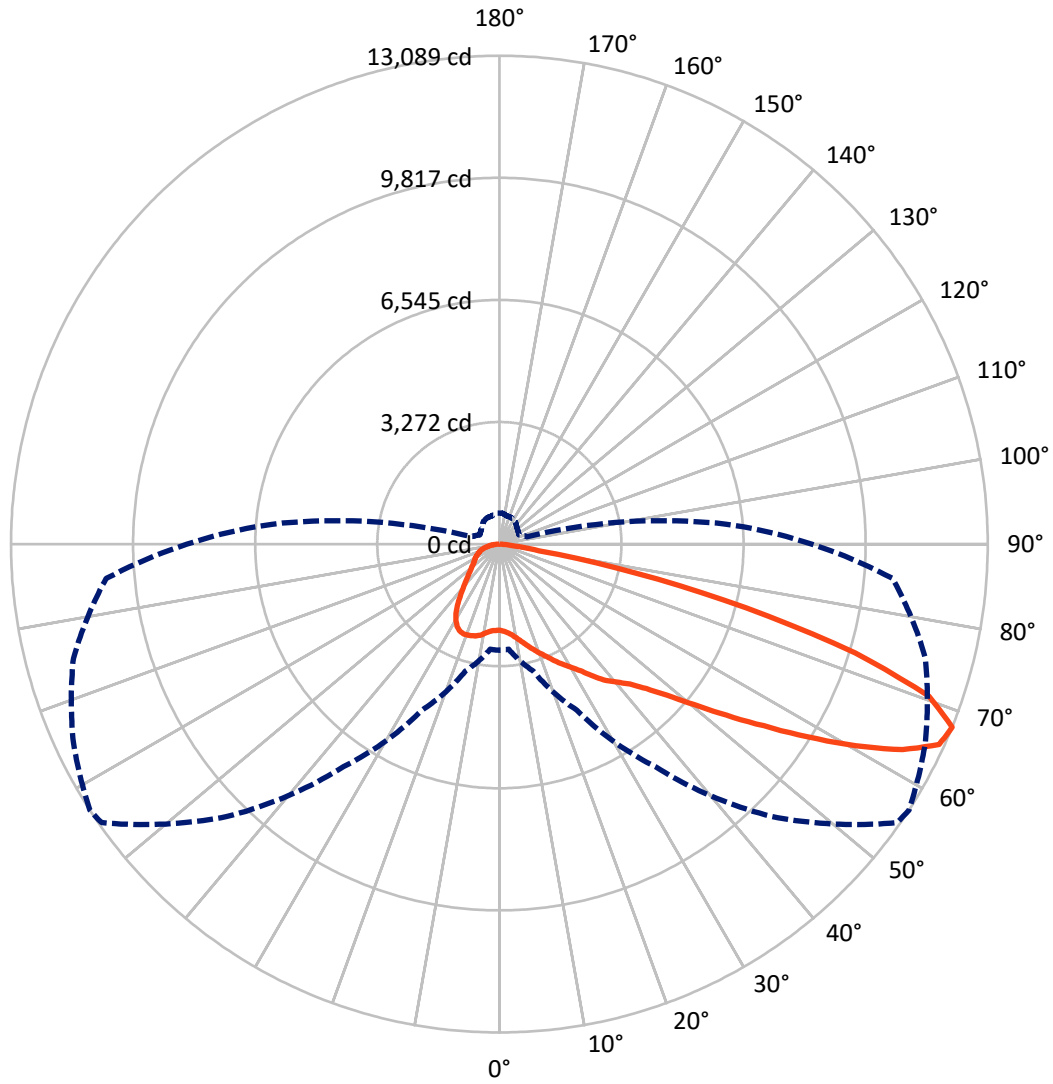
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4212.3	0.0	4212.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14946.3	0.0	14946.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	19158.6	0.0	19158.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.2
10°-20°	758.0	4.0
20°-30°	1351.3	7.1
30°-40°	1964.6	10.3
40°-50°	2843.4	14.8
50°-60°	4449.9	23.2
60°-70°	5191.1	27.1
70°-80°	2167.0	11.3
80°-90°	204.5	1.1
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°	19158.6	100.0
0°-180°	19158.6	100.0

Coefficient of Utilization



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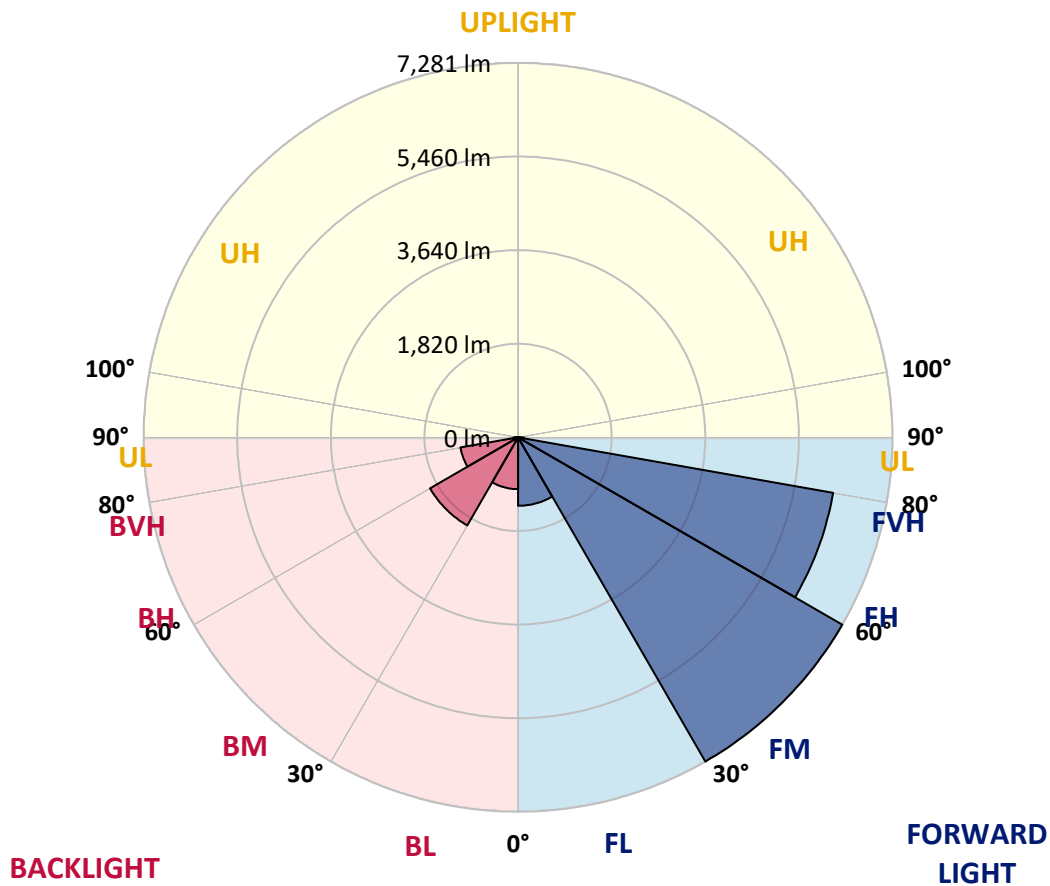
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.8	6.9			
FM (30°-60°)	7280.5	38.0			
FH (60°-80°)	6221.1	32.5			G3/7500
FVH (80°-90°)	113.9	0.6			G2/225
BL (0°-30°)	1007.4	5.3	B3/2500		
BM (30°-60°)	1977.4	10.3	B2/2500		
BH (60°-80°)	1136.9	5.9	B3/2500		G3/2500
BVH (80°-90°)	90.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5
2.5°	2341.4	2338.7	2337.3	2345.5	2342.8	2341.4	2341.4	2340.0	2337.3	2326.3	2311.2
5°	2405.9	2400.4	2394.9	2401.8	2396.3	2390.8	2389.5	2386.7	2377.1	2360.6	2337.3
7.5°	2473.2	2467.7	2469.1	2473.2	2469.1	2466.3	2462.2	2459.5	2444.4	2418.3	2386.7
10°	2567.9	2567.9	2570.6	2574.7	2576.1	2572.0	2563.8	2559.6	2541.8	2508.9	2464.9
12.5°	2705.1	2702.4	2702.4	2699.6	2703.7	2699.6	2691.4	2684.5	2662.6	2620.0	2556.9
15°	2886.3	2875.3	2865.7	2847.9	2842.4	2827.3	2830.0	2825.9	2805.3	2747.7	2668.1
17.5°	3079.8	3078.4	3063.3	3027.7	2992.0	2967.3	2972.8	2971.4	2960.4	2882.2	2780.6
20°	3250.0	3256.9	3243.1	3215.7	3167.6	3121.0	3118.2	3125.1	3111.4	3033.1	2891.8
22.5°	3440.8	3435.3	3421.5	3385.9	3350.2	3300.8	3284.3	3278.8	3273.3	3184.1	3005.7
25°	3621.9	3638.4	3620.6	3587.6	3532.7	3479.2	3465.5	3471.0	3455.9	3337.8	3127.8
27.5°	3851.1	3858.0	3847.0	3801.7	3755.1	3679.6	3653.5	3653.5	3648.0	3481.9	3223.9
30°	4095.4	4114.6	4095.4	4058.4	4010.3	3901.9	3845.6	3840.1	3823.7	3630.2	3336.5
32.5°	4341.1	4354.8	4341.1	4305.4	4250.5	4155.8	4074.8	4062.5	4040.5	3792.1	3451.7
35°	4559.3	4571.7	4568.9	4577.2	4531.9	4412.5	4363.1	4357.6	4299.9	4003.5	3608.2
37.5°	4798.1	4813.2	4792.6	4809.1	4791.3	4678.7	4663.6	4636.2	4553.8	4202.5	3772.9
40°	5069.9	5083.6	5050.7	5057.5	5036.9	4973.8	4896.9	4859.9	4737.7	4418.0	4032.3
42.5°	5360.8	5392.4	5407.5	5395.1	5347.1	5311.4	5176.9	5130.3	5028.7	4806.4	4459.1
45°	5782.2	5828.8	5850.8	5819.2	5798.7	5747.9	5583.2	5526.9	5473.4	5354.0	5054.8
47.5°	6236.5	6279.0	6349.0	6362.7	6379.2	6340.8	6108.8	6053.9	6063.5	6049.8	5787.7
50°	6598.8	6634.5	6792.3	6961.1	7101.1	7112.1	6815.6	6756.6	6808.8	6852.7	6670.2
52.5°	6862.3	6893.9	7102.5	7451.1	7768.1	8002.8	7683.0	7615.8	7658.3	7757.2	7673.4
55°	7076.4	7120.3	7338.6	7873.8	8514.8	8885.3	8680.8	8595.7	8577.9	8700.0	8748.1
57.5°	7189.0	7202.7	7508.7	8204.6	9062.4	9751.3	9840.6	9744.5	9574.3	9641.5	9891.3
60°	6932.3	6955.6	7374.2	8289.7	9494.7	10610.5	11057.9	10978.3	10616.0	10653.0	10928.9
62.5°	6222.7	6255.7	6759.4	7884.8	9530.4	11184.2	12182.0	12131.2	11645.3	11445.0	11527.3
65°	4991.6	5002.6	5524.2	6882.9	8820.8	11255.6	12965.6	12953.3	12364.5	11895.1	11542.4
67.5°	2846.5	2827.3	3524.5	4909.3	7279.5	10327.8	13016.4	13089.2	12597.8	11821.0	10581.7
70°	1233.8	1236.6	1557.7	2422.4	4711.7	8347.3	12090.0	12214.9	11922.6	10587.2	8418.7
72.5°	570.9	579.2	717.8	1048.6	2012.0	5178.3	9858.4	9970.9	9719.8	8473.6	6125.3
75°	403.5	410.4	479.0	601.1	925.0	2017.5	6594.7	6830.7	6952.9	6338.0	4036.4
77.5°	306.1	315.7	350.0	417.2	570.9	715.1	3155.3	3718.0	4428.9	3943.1	2079.3
80°	194.9	194.9	231.9	278.6	348.6	371.9	911.3	1080.1	2167.1	1625.0	816.6
82.5°	131.8	135.9	157.8	177.0	200.4	211.4	391.2	417.2	625.8	553.1	336.3
85°	70.0	72.7	82.3	81.0	96.1	83.7	164.7	163.3	229.2	251.2	127.6
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	17.8	19.2	48.0	76.9	42.5
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°	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5	2308.5
2.5°	2319.5	2303.0	2311.2	2308.5	2316.7	2316.7	2301.6	2297.5	2298.9	2282.4	2276.9
5°	2340.0	2320.8	2325.0	2319.5	2327.7	2334.6	2327.7	2327.7	2335.9	2323.6	2316.7
7.5°	2386.7	2364.8	2364.8	2357.9	2367.5	2373.0	2367.5	2375.7	2390.8	2378.5	2371.6
10°	2460.8	2434.7	2436.1	2427.9	2432.0	2429.3	2407.3	2400.4	2404.6	2393.6	2388.1
12.5°	2556.9	2521.2	2521.2	2504.7	2495.1	2466.3	2421.0	2404.6	2407.3	2397.7	2393.6
15°	2648.9	2615.9	2609.1	2576.1	2532.2	2478.7	2437.5	2426.5	2429.3	2419.7	2412.8
17.5°	2757.3	2714.7	2690.0	2629.6	2548.7	2493.8	2452.6	2426.5	2404.6	2382.6	2377.1
20°	2857.5	2803.9	2758.6	2665.3	2566.5	2491.0	2414.2	2349.7	2296.1	2267.3	2260.4
22.5°	2960.4	2891.8	2812.2	2690.0	2565.1	2441.6	2300.2	2202.8	2123.2	2080.7	2088.9
25°	3057.8	2971.4	2863.0	2713.4	2521.2	2331.8	2139.7	1994.2	1903.6	1870.7	1861.1
27.5°	3138.8	3031.8	2909.6	2702.4	2430.6	2174.0	1920.1	1758.1	1670.3	1633.2	1623.6
30°	3229.4	3108.6	2976.9	2651.6	2287.9	1953.0	1671.7	1539.9	1476.8	1441.1	1442.5
32.5°	3333.7	3207.4	3071.6	2554.2	2105.4	1714.2	1467.2	1376.6	1325.8	1290.1	1284.6
35°	3473.7	3348.8	3134.7	2407.3	1873.4	1494.6	1327.2	1253.1	1189.9	1143.3	1133.7
37.5°	3646.6	3561.5	3141.6	2211.0	1625.0	1343.6	1227.0	1147.4	1070.5	1008.8	1001.9
40°	3943.1	3845.6	3085.3	1965.4	1413.6	1246.2	1143.3	1051.3	962.1	893.5	883.9
42.5°	4365.8	4165.4	2964.5	1688.1	1254.4	1169.3	1063.7	947.0	856.4	808.4	801.5
45°	4903.8	4522.3	2783.4	1427.4	1136.4	1093.9	979.9	857.8	809.8	775.4	768.6
47.5°	5562.6	4938.1	2574.7	1224.2	1044.4	1025.2	894.8	827.6	785.0	756.2	749.4
50°	6350.4	5467.9	2403.2	1065.0	962.1	945.6	867.4	809.8	775.4	752.1	746.6
52.5°	7249.3	6056.7	2319.5	951.1	890.7	874.3	857.8	805.6	776.8	759.0	752.1
55°	8182.6	6677.0	2241.2	863.3	830.3	839.9	859.2	819.4	797.4	774.1	767.2
57.5°	9084.3	7259.0	2049.1	794.7	786.4	823.5	866.0	833.1	807.0	783.7	775.4
60°	9706.1	7577.4	1723.8	739.8	753.5	802.9	848.2	812.5	779.6	770.0	765.8
62.5°	9873.5	7538.9	1338.2	683.5	713.7	757.6	801.5	778.2	743.9	759.0	760.3
65°	9482.3	7127.2	1004.6	628.6	661.5	698.6	753.5	743.9	731.5	772.7	774.1
67.5°	8374.8	6115.7	765.8	580.6	608.0	653.3	738.4	778.2	780.9	833.1	827.6
70°	6336.7	4568.9	599.8	535.3	566.8	653.3	786.4	804.3	771.3	819.4	808.4
72.5°	4380.9	3015.3	510.6	495.5	516.0	623.1	785.0	785.0	749.4	749.4	728.8
75°	2721.6	1773.2	444.7	444.7	444.7	544.9	763.1	723.3	660.2	631.3	614.9
77.5°	1343.6	861.9	373.3	387.0	371.9	455.7	623.1	591.5	553.1	522.9	511.9
80°	573.7	431.0	301.9	317.0	299.2	343.1	494.1	487.2	450.2	410.4	398.0
82.5°	263.5	222.3	241.6	248.4	218.2	258.0	361.0	361.0	340.4	285.5	264.9
85°	112.5	118.0	167.4	167.4	137.2	145.5	193.5	183.9	164.7	134.5	123.5
87.5°	38.4	57.6	85.1	74.1	28.8	12.4	6.9	2.7	0.0	0.0	0.0
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)