

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: P637289

Luminaire Tested: GWS-SA4C-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637289
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-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19424.8 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

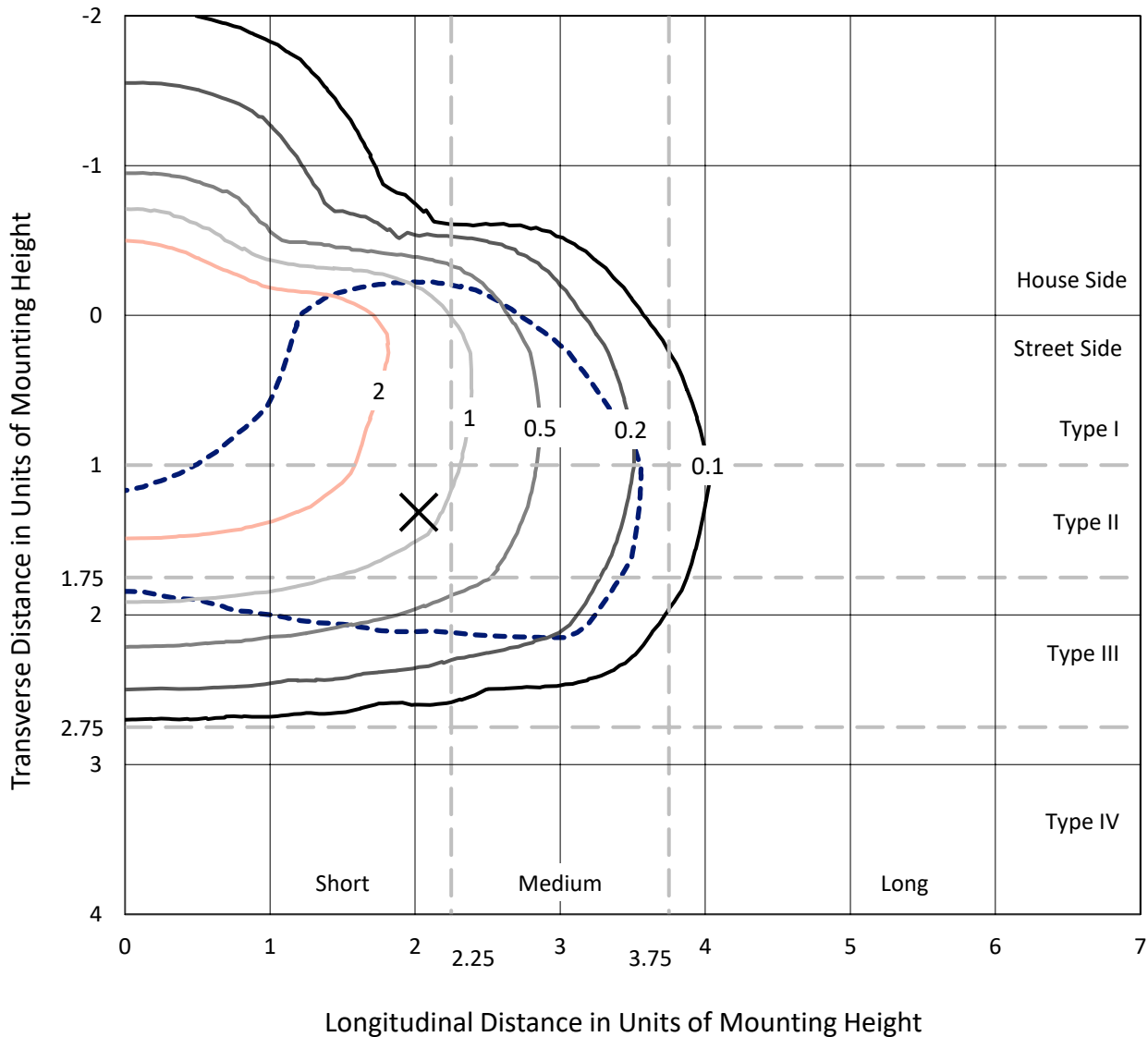
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

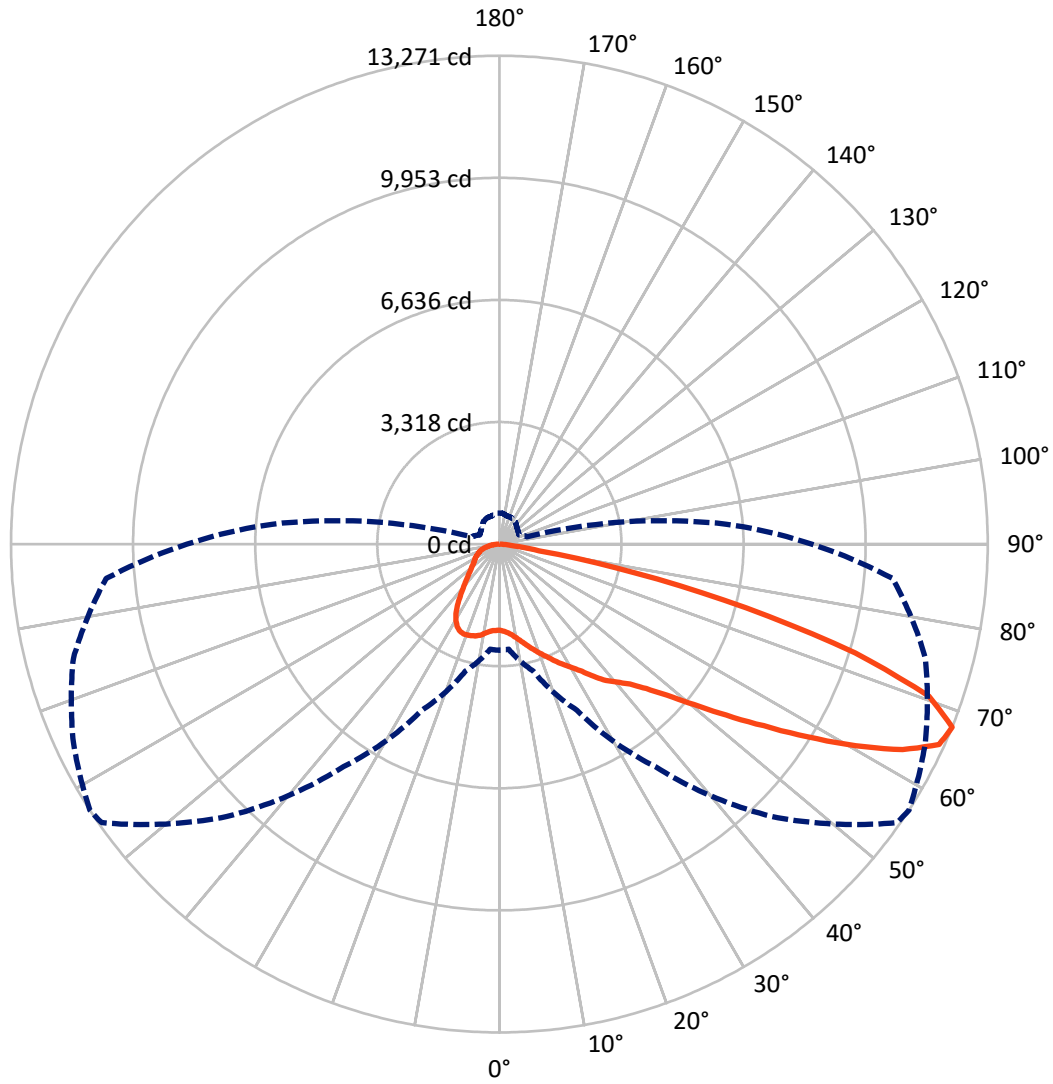
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4270.8	0.0	4270.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	15154.0	0.0	15154.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	19424.8	0.0	19424.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	1.2
10°-20°	768.5	4.0
20°-30°	1370.1	7.1
30°-40°	1991.9	10.3
40°-50°	2882.9	14.8
50°-60°	4511.7	23.2
60°-70°	5263.2	27.1
70°-80°	2197.1	11.3
80°-90°	207.3	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°	19424.8	100.0
0°-180°	19424.8	100.0

Coefficient of Utilization



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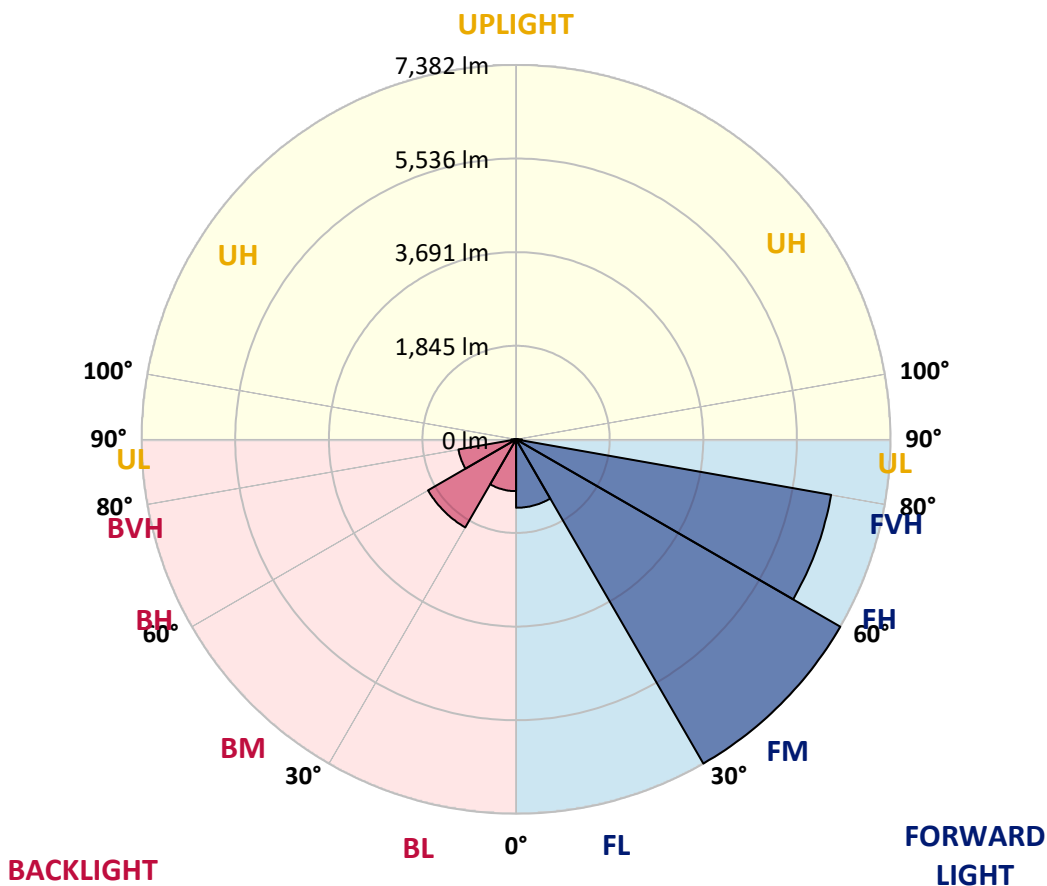
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.2	6.9			
FM (30°-60°)	7381.7	38.0			
FH (60°-80°)	6307.6	32.5			G3/7500
FVH (80°-90°)	115.5	0.6			G2/225
BL (0°-30°)	1021.4	5.3	B3/2500		
BM (30°-60°)	2004.8	10.3	B2/2500		
BH (60°-80°)	1152.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	91.8	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°	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6
2.5°	2374.0	2371.2	2369.8	2378.1	2375.3	2374.0	2374.0	2372.6	2369.8	2358.6	2343.3
5°	2439.4	2433.8	2428.2	2435.2	2429.6	2424.0	2422.7	2419.9	2410.1	2393.4	2369.8
7.5°	2507.5	2502.0	2503.4	2507.5	2503.4	2500.6	2496.4	2493.6	2478.3	2451.9	2419.9
10°	2603.6	2603.6	2606.3	2610.5	2611.9	2607.7	2599.4	2595.2	2577.1	2543.7	2499.2
12.5°	2742.7	2739.9	2739.9	2737.1	2741.3	2737.1	2728.8	2721.8	2699.6	2656.4	2592.4
15°	2926.4	2915.3	2905.5	2887.4	2881.9	2866.6	2869.3	2865.2	2844.3	2785.8	2705.1
17.5°	3122.6	3121.2	3105.9	3069.7	3033.5	3008.5	3014.1	3012.7	3001.5	2922.2	2819.2
20°	3295.1	3302.1	3288.2	3260.4	3211.7	3164.3	3161.6	3168.5	3154.6	3075.3	2932.0
22.5°	3488.6	3483.0	3469.1	3432.9	3396.7	3346.6	3329.9	3324.4	3318.8	3228.4	3047.5
25°	3672.3	3689.0	3670.9	3637.5	3581.8	3527.5	3513.6	3519.2	3503.9	3384.2	3171.3
27.5°	3904.6	3911.6	3900.5	3854.5	3807.2	3730.7	3704.3	3704.3	3698.7	3530.3	3268.7
30°	4152.3	4171.8	4152.3	4114.8	4066.1	3956.1	3899.1	3893.5	3876.8	3680.6	3382.8
32.5°	4401.4	4415.3	4401.4	4365.2	4309.6	4213.6	4131.5	4118.9	4096.7	3844.8	3499.7
35°	4622.7	4635.2	4632.4	4640.8	4594.8	4473.8	4423.7	4418.1	4359.7	4059.1	3658.3
37.5°	4864.8	4880.1	4859.2	4875.9	4857.8	4743.7	4728.4	4700.6	4617.1	4260.9	3825.3
40°	5140.3	5154.2	5120.8	5127.8	5106.9	5042.9	4965.0	4927.4	4803.6	4479.3	4088.3
42.5°	5435.3	5467.3	5482.6	5470.1	5421.4	5385.2	5248.9	5201.5	5098.6	4873.1	4521.1
45°	5862.5	5909.8	5932.1	5900.1	5879.2	5827.7	5660.8	5603.7	5549.4	5428.4	5125.0
47.5°	6323.1	6366.3	6437.2	6451.1	6467.8	6428.9	6193.7	6138.0	6147.8	6133.9	5868.1
50°	6690.5	6726.7	6886.7	7057.8	7199.8	7210.9	6910.3	6850.5	6903.4	6947.9	6762.8
52.5°	6957.7	6989.7	7201.2	7554.6	7876.1	8114.0	7789.8	7721.6	7764.7	7864.9	7780.1
55°	7174.7	7219.3	7440.5	7983.2	8633.1	9008.8	8801.4	8715.2	8697.1	8820.9	8869.6
57.5°	7288.8	7302.8	7613.1	8318.6	9188.3	9886.8	9977.3	9879.9	9707.3	9775.5	10028.8
60°	7028.6	7052.3	7476.7	8404.9	9626.6	10757.9	11211.6	11130.9	10763.5	10801.1	11080.8
62.5°	6309.2	6342.6	6853.3	7994.3	9662.8	11339.6	12351.2	12299.7	11807.1	11604.0	11687.5
65°	5061.0	5072.1	5600.9	6978.5	8943.4	11412.0	13145.8	13133.3	12536.3	12060.4	11702.8
67.5°	2886.0	2866.6	3573.5	4977.5	7380.7	10471.3	13197.3	13271.0	12772.9	11985.3	10728.7
70°	1251.0	1253.8	1579.4	2456.1	4777.1	8463.3	12258.0	12384.6	12088.2	10734.3	8535.7
72.5°	578.9	587.2	727.8	1063.1	2040.0	5250.2	9995.4	10109.5	9854.8	8591.3	6210.4
75°	409.1	416.1	485.6	609.5	937.9	2045.6	6686.3	6925.7	7049.5	6426.1	4092.5
77.5°	310.3	320.1	354.8	423.0	578.9	725.0	3199.1	3769.7	4490.5	3997.9	2108.2
80°	197.6	197.6	235.2	282.5	353.4	377.1	924.0	1095.1	2197.2	1647.6	828.0
82.5°	133.6	137.8	160.0	179.5	203.2	214.3	396.6	423.0	634.5	560.8	340.9
85°	71.0	73.8	83.5	82.1	97.4	84.9	167.0	165.6	232.4	254.7	129.4
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	18.1	19.5	48.7	77.9	43.1
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°	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6
2.5°	2351.7	2335.0	2343.3	2340.6	2348.9	2348.9	2333.6	2329.4	2330.8	2314.1	2308.6
5°	2372.6	2353.1	2357.3	2351.7	2360.0	2367.0	2360.0	2360.0	2368.4	2355.9	2348.9
7.5°	2419.9	2397.6	2397.6	2390.7	2400.4	2406.0	2400.4	2408.7	2424.0	2411.5	2404.6
10°	2495.0	2468.6	2470.0	2461.6	2465.8	2463.0	2440.7	2433.8	2438.0	2426.8	2421.3
12.5°	2592.4	2556.2	2556.2	2539.5	2529.8	2500.6	2454.7	2438.0	2440.7	2431.0	2426.8
15°	2685.7	2652.3	2645.3	2611.9	2567.4	2513.1	2471.4	2460.2	2463.0	2453.3	2446.3
17.5°	2795.6	2752.4	2727.4	2666.2	2584.1	2528.4	2486.7	2460.2	2438.0	2415.7	2410.1
20°	2897.2	2842.9	2797.0	2702.4	2602.2	2525.6	2447.7	2382.3	2328.0	2298.8	2291.9
22.5°	3001.5	2932.0	2851.2	2727.4	2600.8	2475.5	2332.2	2233.4	2152.7	2109.6	2117.9
25°	3100.3	3012.7	2902.7	2751.1	2556.2	2364.2	2169.4	2021.9	1930.1	1896.7	1886.9
27.5°	3182.4	3073.9	2950.0	2739.9	2464.4	2204.2	1946.8	1782.6	1693.5	1655.9	1646.2
30°	3274.3	3151.8	3018.2	2688.4	2319.7	1980.1	1694.9	1561.3	1497.3	1461.1	1462.5
32.5°	3380.0	3252.0	3114.2	2589.6	2134.6	1738.0	1487.5	1395.7	1344.2	1308.0	1302.5
35°	3522.0	3395.3	3178.3	2440.7	1899.4	1515.4	1345.6	1270.5	1206.5	1159.1	1149.4
37.5°	3697.3	3611.0	3185.2	2241.8	1647.6	1362.3	1244.0	1163.3	1085.4	1022.8	1015.8
40°	3997.9	3899.1	3128.2	1992.7	1433.3	1263.5	1159.1	1065.9	975.5	905.9	896.1
42.5°	4426.5	4223.3	3005.7	1711.6	1271.9	1185.6	1078.4	960.2	868.3	819.6	812.7
45°	4971.9	4585.1	2822.0	1447.2	1152.2	1109.1	993.6	869.7	821.0	786.2	779.3
47.5°	5639.9	5006.7	2610.5	1241.2	1059.0	1039.5	907.3	839.1	796.0	766.7	759.8
50°	6438.6	5543.9	2436.6	1079.8	975.5	958.8	879.4	821.0	786.2	762.6	757.0
52.5°	7350.1	6140.8	2351.7	964.3	903.1	886.4	869.7	816.8	787.6	769.5	762.6
55°	8296.3	6769.8	2272.4	875.3	841.9	851.6	871.1	830.7	808.5	784.8	777.9
57.5°	9210.5	7359.8	2077.6	805.7	797.3	834.9	878.1	844.7	818.2	794.6	786.2
60°	9840.9	7682.6	1747.8	750.0	764.0	814.0	860.0	823.8	790.4	780.6	776.5
62.5°	10010.7	7643.7	1356.7	693.0	723.6	768.1	812.7	789.0	754.2	769.5	770.9
65°	9614.1	7226.2	1018.6	637.3	670.7	708.3	764.0	754.2	741.7	783.4	784.8
67.5°	8491.1	6200.7	776.5	588.6	616.4	662.4	748.6	789.0	791.8	844.7	839.1
70°	6424.7	4632.4	608.1	542.7	574.7	662.4	797.3	815.4	782.0	830.7	819.6
72.5°	4441.8	3057.2	517.6	502.3	523.2	631.8	796.0	796.0	759.8	759.8	738.9
75°	2759.4	1797.9	450.9	450.9	450.9	552.4	773.7	733.3	669.3	640.1	623.4
77.5°	1362.3	873.9	378.5	392.4	377.1	462.0	631.8	599.8	560.8	530.2	519.0
80°	581.7	436.9	306.1	321.4	303.4	347.9	501.0	494.0	456.4	416.1	403.5
82.5°	267.2	225.4	244.9	251.9	221.3	261.6	366.0	366.0	345.1	289.4	268.6
85°	114.1	119.7	169.8	169.8	139.2	147.5	196.2	186.5	167.0	136.4	125.2
87.5°	39.0	58.4	86.3	75.1	29.2	12.5	7.0	2.8	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)