

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: STREETWORKS

Report Number: P387033

Luminaire Tested: GAW-SA2D-730-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-SL4
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14012 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

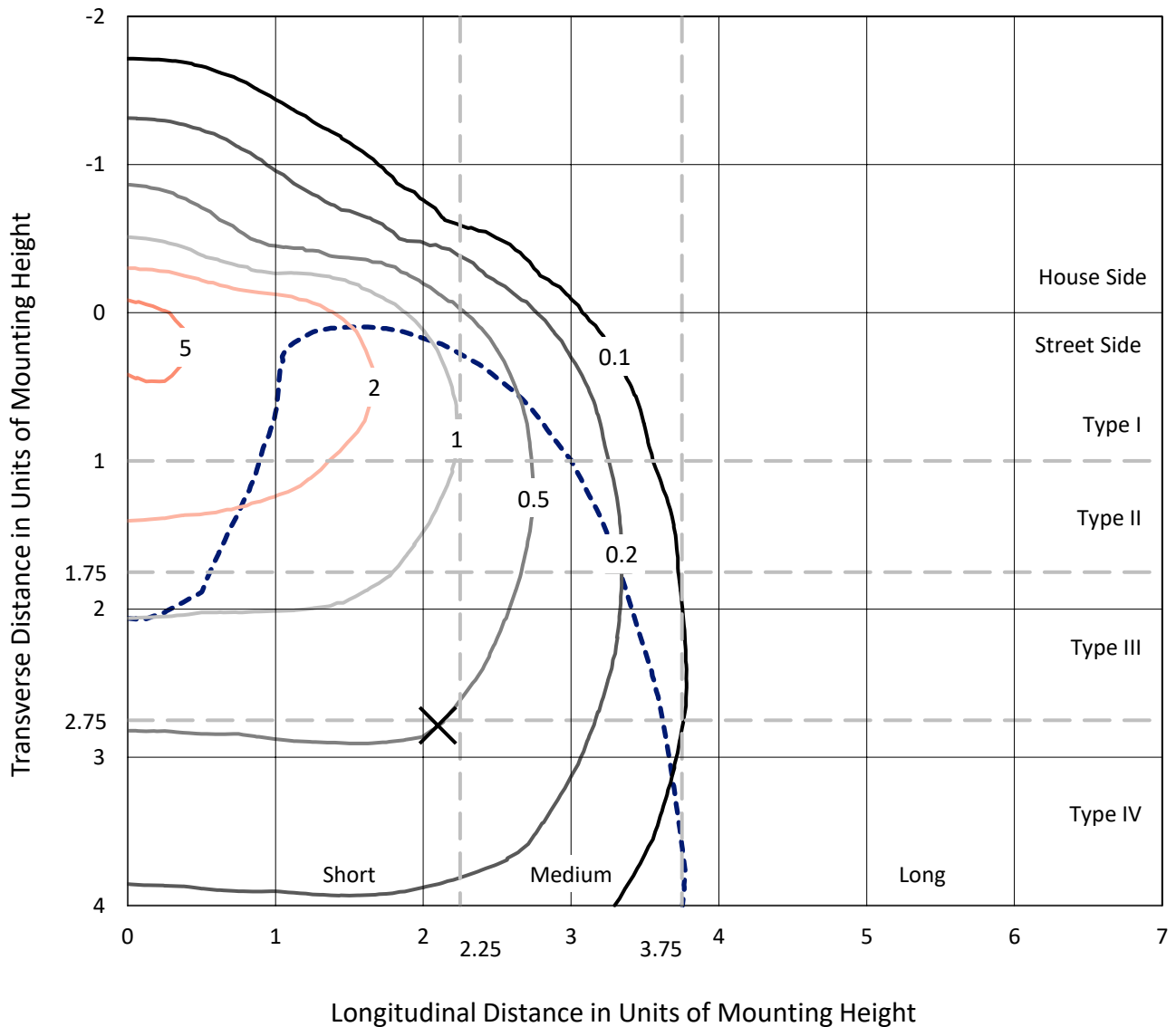




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Iso-Footcandle Lines of Horizontal Illumination

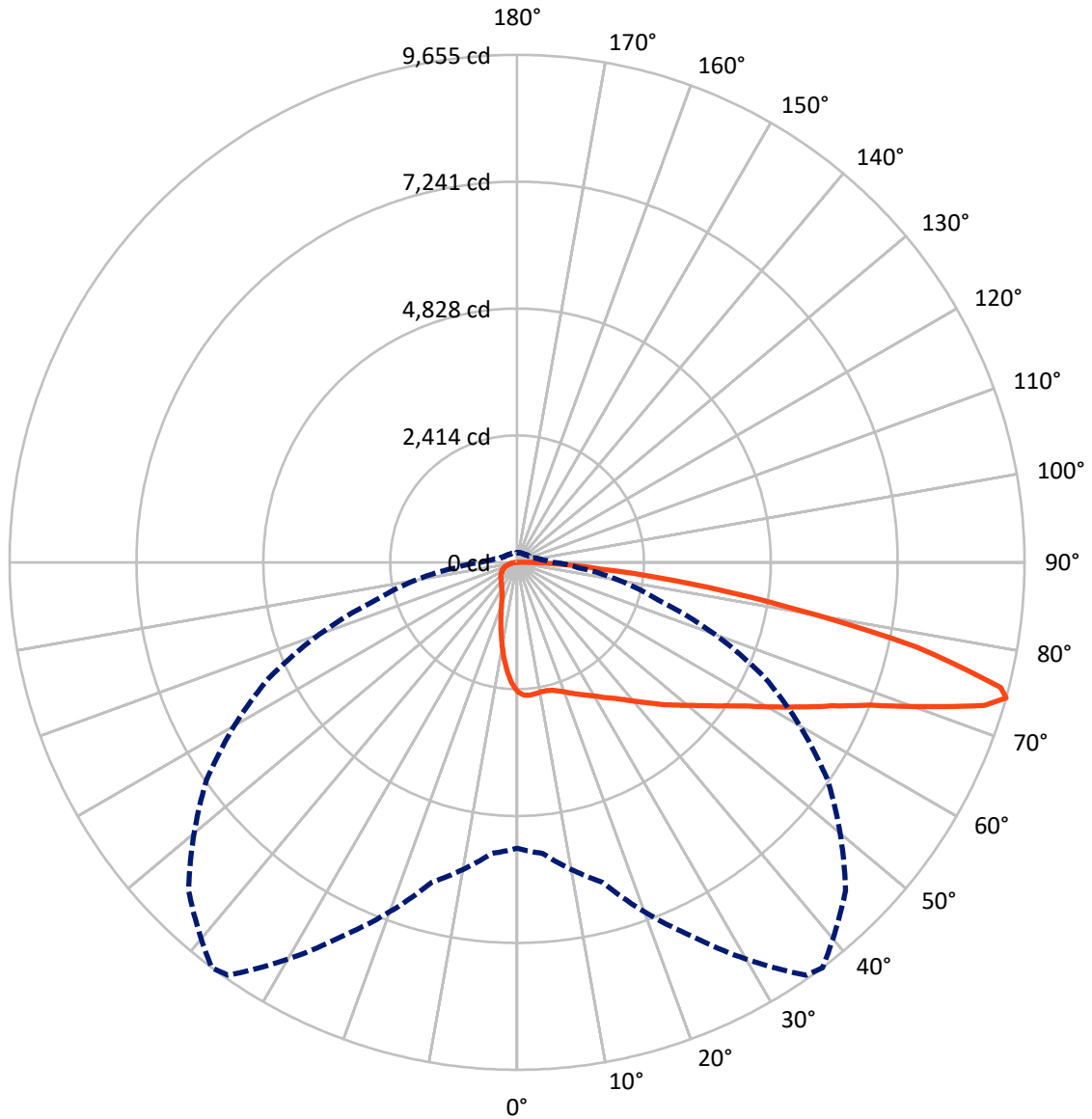
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.0	0.0	1928.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	12084.1	0.0	12084.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	14012.0	0.0	14012.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	1.6
10°-20°	557.3	4.0
20°-30°	858.7	6.1
30°-40°	1248.6	8.9
40°-50°	1837.8	13.1
50°-60°	2580.8	18.4
60°-70°	3266.5	23.3
70°-80°	2876.3	20.5
80°-90°	568.7	4.1
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°	14012.0	100.0
0°-180°	14012.0	100.0

Coefficient of Utilization

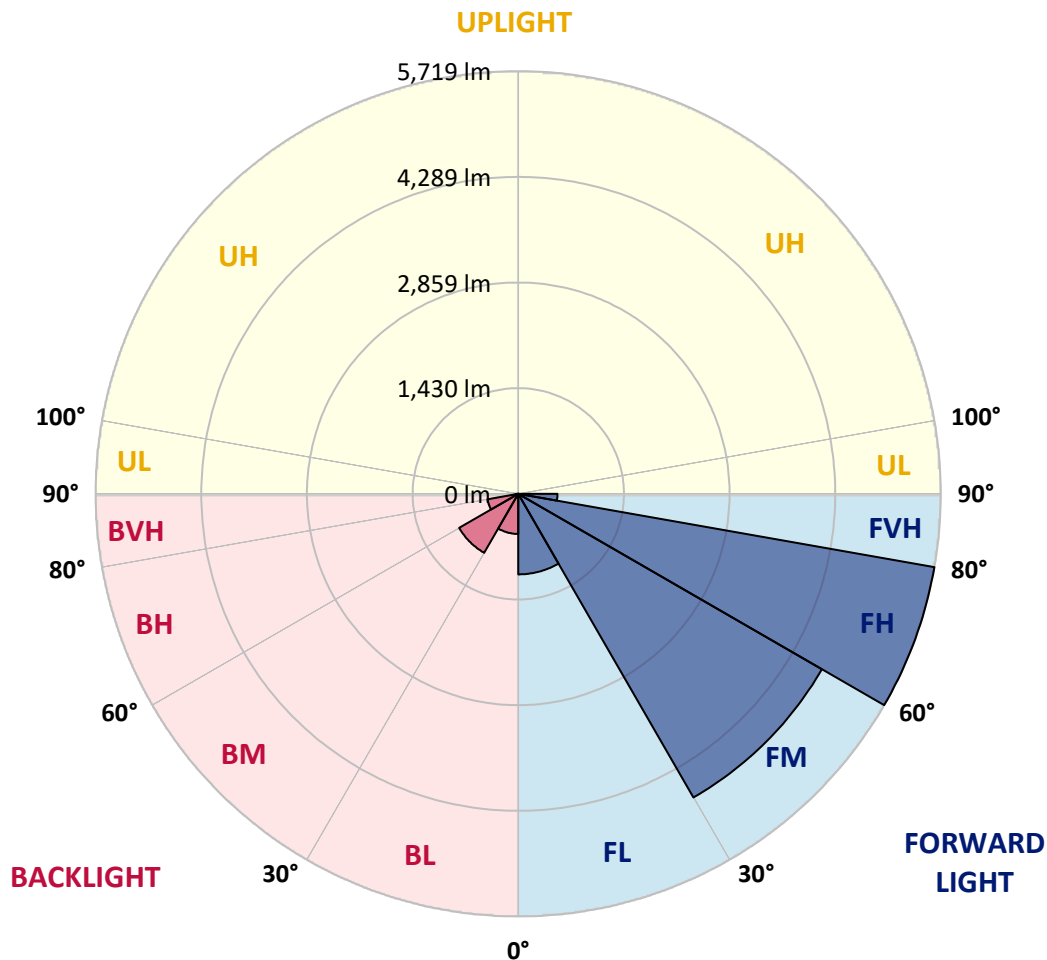


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.3	7.8			
FM (30°-60°)	4744.6	33.9			
FH (60°-80°)	5719.0	40.8			G3/7500
FVH (80°-90°)	530.2	3.8			G4/750
BL (0°-30°)	543.1	3.9	B2/1000		
BM (30°-60°)	922.6	6.6	B1/1000		
BH (60°-80°)	423.8	3.0	B1/500		G1/500
BVH (80°-90°)	38.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9
2.5°	2553.3	2553.8	2553.3	2549.3	2539.9	2532.0	2525.6	2516.2	2495.5	2479.7	2456.0
5°	2577.4	2574.5	2572.5	2565.1	2550.3	2541.4	2529.1	2511.3	2477.3	2445.7	2407.2
7.5°	2566.1	2562.6	2558.2	2549.3	2532.5	2525.1	2507.9	2484.7	2443.7	2402.2	2346.9
10°	2531.1	2530.1	2528.1	2526.1	2511.8	2505.9	2490.1	2465.4	2424.9	2374.6	2309.9
12.5°	2492.1	2494.5	2502.4	2512.8	2506.4	2503.4	2493.5	2476.8	2435.3	2381.0	2303.0
15°	2467.4	2474.3	2495.5	2522.7	2528.1	2527.1	2524.6	2513.8	2469.8	2409.6	2318.8
17.5°	2459.0	2470.3	2510.8	2555.7	2571.5	2575.0	2576.0	2557.2	2508.3	2444.7	2335.1
20°	2474.3	2488.6	2547.8	2609.5	2634.7	2636.7	2632.2	2599.7	2544.9	2474.8	2344.0
22.5°	2520.7	2533.5	2607.6	2677.1	2705.8	2708.7	2695.4	2646.1	2583.4	2510.3	2356.3
25°	2610.0	2625.8	2699.9	2769.4	2784.3	2784.7	2765.5	2704.3	2633.7	2560.2	2383.0
27.5°	2726.5	2742.3	2808.9	2877.0	2869.1	2864.7	2838.5	2777.3	2699.4	2628.8	2430.4
30°	2856.3	2873.6	2936.8	2985.1	2966.4	2957.5	2936.3	2857.3	2790.7	2722.6	2502.9
32.5°	2990.6	3006.4	3061.6	3094.7	3071.0	3067.1	3035.0	2962.9	2909.6	2865.7	2620.4
35°	3128.3	3139.6	3193.9	3212.7	3181.1	3180.1	3171.2	3105.1	3071.5	3092.2	2791.2
37.5°	3268.9	3271.9	3318.3	3319.3	3309.9	3313.9	3323.2	3281.8	3291.2	3355.8	3013.3
40°	3394.3	3402.2	3435.8	3446.1	3462.4	3476.2	3523.1	3496.0	3568.5	3683.1	3289.7
42.5°	3487.1	3502.4	3556.2	3582.9	3635.7	3657.4	3723.5	3748.7	3894.8	4066.6	3618.4
45°	3565.6	3589.3	3675.6	3730.4	3819.8	3857.8	3952.5	4036.9	4263.5	4482.6	3964.4
47.5°	3650.5	3680.6	3788.7	3893.3	4014.7	4057.7	4229.9	4356.3	4656.9	4901.2	4290.6
50°	3775.4	3798.6	3904.2	4068.5	4220.1	4275.3	4513.7	4694.9	5056.7	5300.0	4573.5
52.5°	3949.6	3940.7	4030.0	4260.5	4463.9	4532.0	4816.8	5055.2	5461.9	5660.8	4812.4
55°	4124.8	4110.0	4172.7	4461.4	4748.2	4819.8	5150.5	5417.0	5847.4	5985.6	4995.5
57.5°	4319.8	4291.6	4344.4	4688.0	5072.0	5157.4	5524.1	5801.5	6226.4	6248.2	5112.0
60°	4520.6	4482.6	4541.9	4968.8	5483.1	5583.8	5961.4	6176.6	6583.8	6458.4	5149.5
62.5°	4696.4	4669.7	4761.0	5282.2	5946.6	6057.1	6390.8	6575.4	6936.2	6545.8	5014.2
65°	4849.9	4854.3	5012.2	5634.6	6463.4	6581.3	6883.4	7067.0	7213.6	6494.0	4697.8
67.5°	5033.0	5058.2	5327.6	6098.6	7113.9	7243.2	7600.1	7603.0	7368.6	6189.9	4075.0
70°	5300.0	5351.8	5761.5	6742.2	8038.8	8216.5	8492.0	7917.9	7150.9	5365.6	3206.3
72.5°	5536.9	5633.7	6223.0	7478.6	9166.2	9300.9	9013.7	7736.3	6241.3	4021.2	1997.5
74°	5440.7	5560.6	6306.9	7841.4	9590.6	9655.3	8837.5	7206.2	5203.8	2784.7	1160.9
75°	5233.4	5363.7	6184.5	7838.0	9536.8	9500.8	8412.0	6600.6	4285.7	1899.3	772.4
77.5°	4223.5	4361.2	5211.2	6717.6	7819.7	7785.6	6461.9	4427.9	1877.1	622.9	392.4
80°	2455.5	2560.7	3234.9	4266.0	5272.9	5334.6	4249.7	2191.0	738.4	349.9	266.0
82.5°	1090.8	1163.4	1562.7	2177.7	3182.1	3261.5	2225.5	1148.1	456.1	212.7	159.9
85°	715.7	769.5	948.7	1037.0	1515.3	1569.6	1089.3	893.9	301.1	117.0	117.5
87.5°	514.8	566.6	704.8	615.5	695.4	658.4	592.8	827.2	120.9	66.6	39.5
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°	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9	2468.9
2.5°	2445.7	2437.8	2420.0	2386.4	2367.7	2351.9	2325.7	2310.4	2303.5	2303.0	2306.0
5°	2385.0	2366.7	2320.8	2264.5	2219.6	2178.6	2127.8	2097.2	2075.5	2062.6	2066.1
7.5°	2314.4	2285.7	2213.7	2123.9	2051.8	1972.3	1893.8	1847.0	1810.4	1783.3	1788.2
10°	2266.0	2226.5	2121.4	1992.1	1872.1	1756.6	1648.5	1583.9	1532.5	1493.1	1496.0
12.5°	2249.7	2196.4	2050.8	1878.1	1709.7	1551.8	1410.6	1311.4	1258.6	1213.7	1217.2
15°	2252.2	2180.6	1991.6	1775.4	1563.6	1364.7	1193.5	1077.5	1005.9	974.8	975.3
17.5°	2254.2	2162.4	1929.4	1665.3	1419.0	1190.0	1003.9	886.5	818.8	790.2	790.7
20°	2247.7	2132.7	1852.4	1539.0	1268.0	1029.6	849.4	749.7	698.4	676.2	676.2
22.5°	2239.3	2097.7	1765.5	1412.1	1118.9	890.4	738.9	662.9	633.3	618.4	618.0
25°	2243.3	2071.5	1676.7	1281.8	981.7	779.4	665.3	615.0	595.3	585.9	585.4
27.5°	2264.5	2059.2	1594.7	1152.0	861.8	695.9	616.0	580.4	567.6	561.7	561.7
30°	2303.0	2059.2	1509.4	1041.4	762.1	634.2	578.0	553.8	544.9	541.0	541.0
32.5°	2370.1	2070.5	1426.9	931.9	682.6	585.9	546.4	530.1	523.2	521.2	521.2
35°	2485.6	2109.0	1346.5	828.2	618.4	546.4	516.3	506.9	502.0	501.5	503.0
37.5°	2648.0	2187.5	1271.0	751.7	573.0	514.3	491.1	483.7	480.7	483.2	485.2
40°	2852.4	2294.1	1202.3	682.6	538.5	488.6	467.9	463.0	461.5	464.9	467.9
42.5°	3099.2	2438.3	1146.1	632.8	511.8	466.9	448.2	442.2	440.8	444.7	448.7
45°	3366.2	2593.2	1106.6	595.7	491.1	450.6	430.9	424.5	421.5	423.5	427.9
47.5°	3609.0	2739.8	1090.8	569.6	471.4	436.8	415.6	407.7	402.8	401.8	405.2
50°	3813.9	2848.9	1098.2	553.8	455.6	421.5	400.8	391.9	384.5	380.1	382.5
52.5°	3962.9	2917.5	1105.1	546.9	443.2	404.7	384.5	376.1	366.2	358.8	358.8
55°	4071.0	2933.3	1089.8	541.5	433.9	386.5	366.2	358.3	348.5	340.1	339.1
57.5°	4113.5	2888.9	1033.1	533.6	427.4	369.2	347.0	341.1	332.7	322.8	322.3
60°	4056.2	2751.7	923.5	516.8	419.0	354.9	327.7	323.8	319.8	310.5	310.0
62.5°	3826.2	2450.6	781.8	482.7	402.3	339.6	310.0	311.9	312.4	306.0	305.0
65°	3409.1	2037.0	643.6	438.3	377.1	321.3	291.7	301.1	306.5	305.5	304.0
67.5°	2803.0	1585.4	545.4	391.4	344.0	296.1	272.0	282.8	287.3	290.7	289.7
70°	2080.4	1117.9	451.1	342.0	304.0	266.5	246.3	251.7	248.8	252.7	254.2
72.5°	1159.9	670.8	367.7	292.7	262.6	232.0	217.7	216.7	210.3	210.3	210.3
74°	695.9	492.1	323.3	262.1	237.4	209.3	196.9	192.5	186.6	187.1	186.6
75°	559.7	423.0	296.6	241.9	219.6	195.9	183.6	177.7	173.2	173.2	172.8
77.5°	353.4	321.3	238.9	192.5	175.7	161.4	153.0	145.1	145.1	144.6	144.1
80°	267.0	255.7	186.1	145.6	134.7	123.9	118.5	115.0	115.0	116.5	116.0
82.5°	183.1	192.5	130.8	101.7	96.2	88.3	87.4	87.9	86.4	84.4	83.9
85°	133.8	144.6	88.3	64.2	58.7	53.8	57.7	59.7	57.3	52.8	50.8
87.5°	51.3	94.8	47.4	26.7	24.7	21.2	24.7	25.7	27.6	21.7	22.2
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)