

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320956

Luminaire Tested: **GAN-SA2B-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11996 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

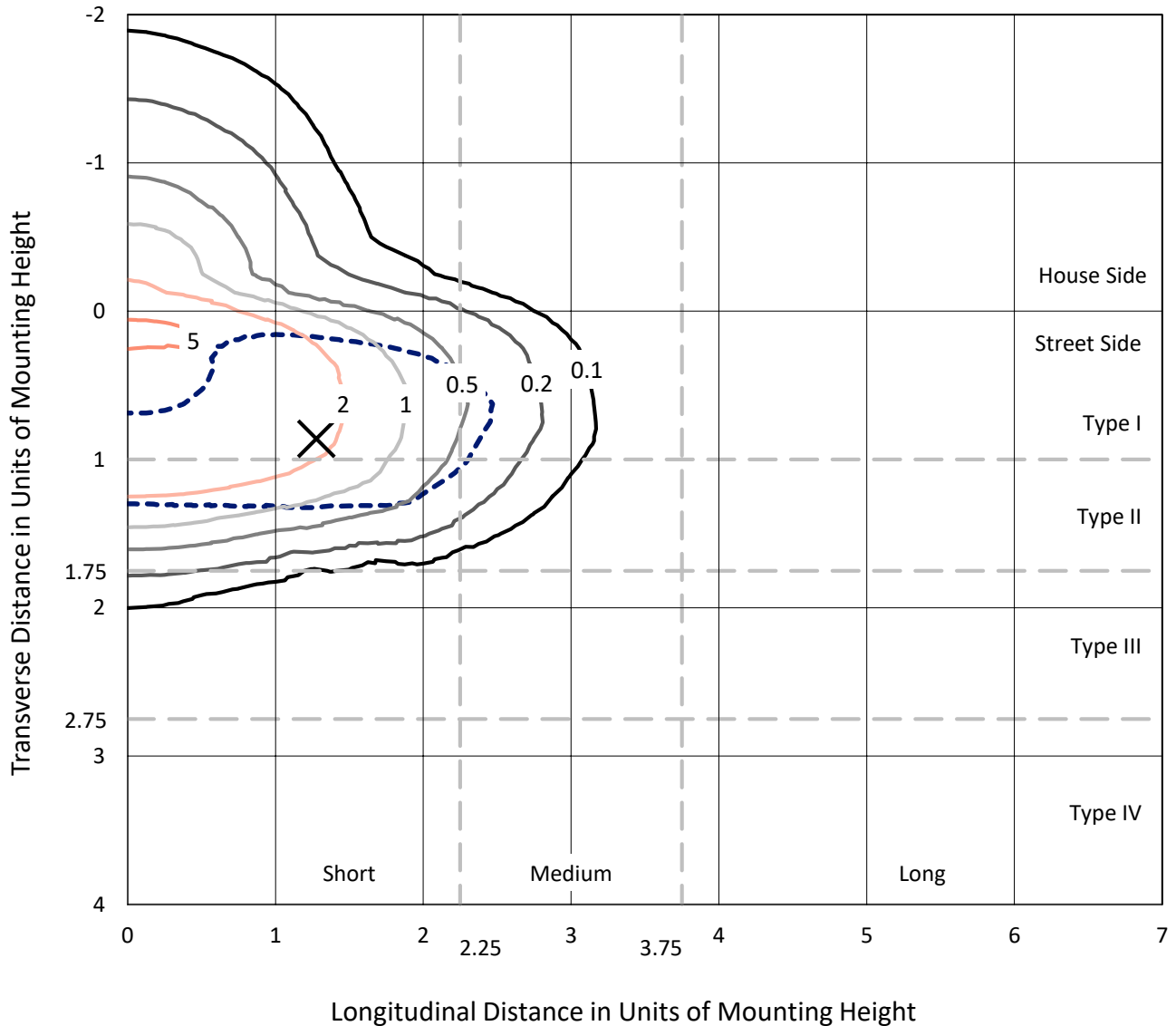
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

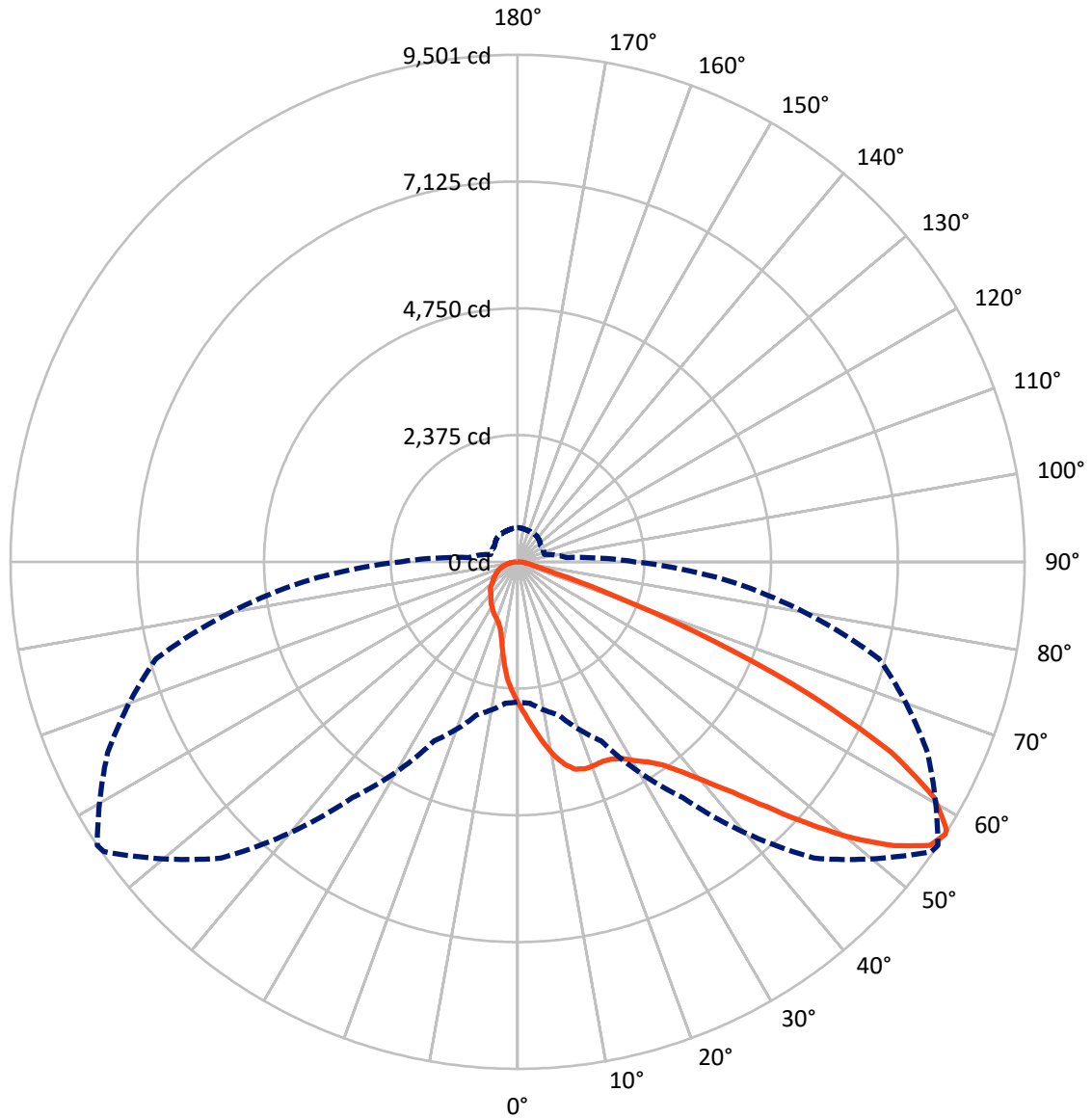
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2067.9	0.0	2067.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	9928.1	0.0	9928.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	11996.0	0.0	11996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.2	2.1
10°-20°	718.6	6.0
20°-30°	1170.4	9.8
30°-40°	1749.7	14.6
40°-50°	2653.9	22.1
50°-60°	2974.5	24.8
60°-70°	1756.9	14.6
70°-80°	575.6	4.8
80°-90°	142.2	1.2
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°	11996.0	100.0
0°-180°	11996.0	100.0

Coefficient of Utilization

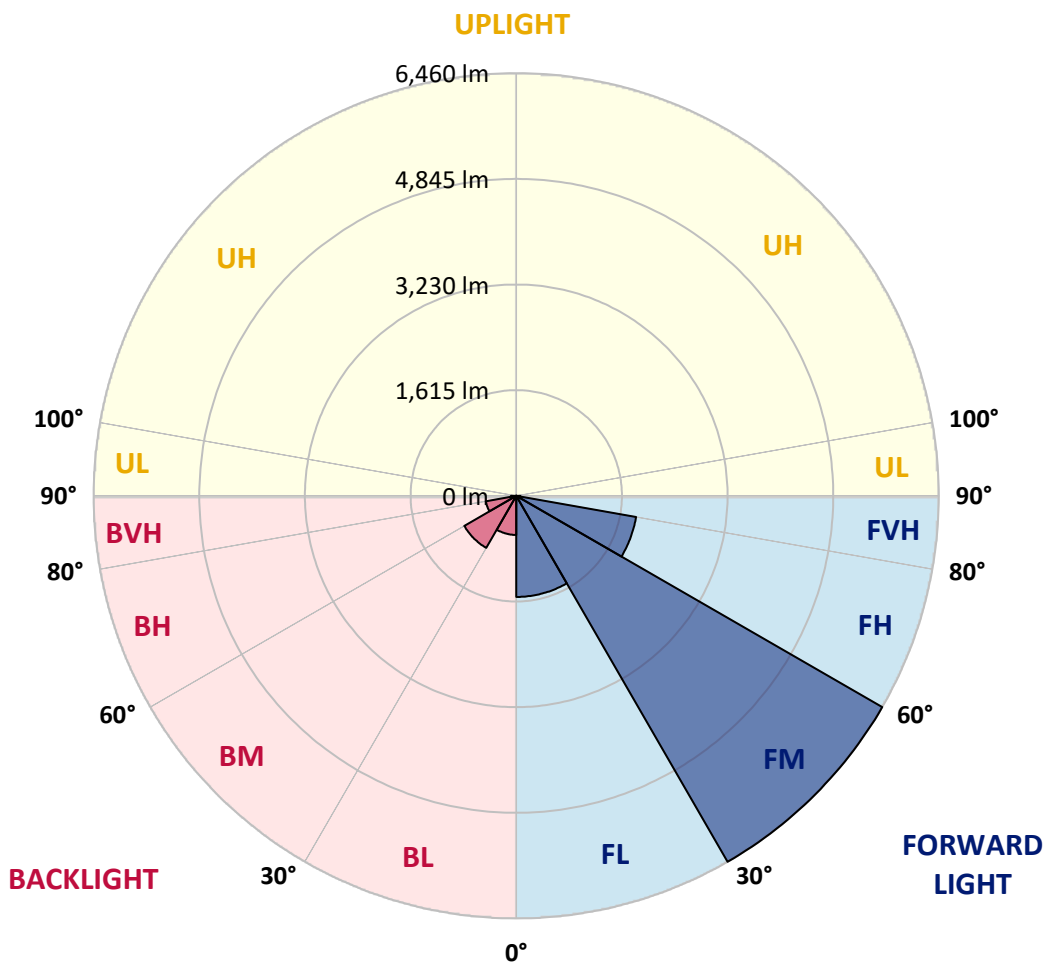


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.3	12.9			
FM (30°-60°)	6460.2	53.9			
FH (60°-80°)	1860.0	15.5			G2/5000
FVH (80°-90°)	62.6	0.5			G1/100
BL (0°-30°)	597.9	5.0	B2/1000		
BM (30°-60°)	917.9	7.7	B1/1000		
BH (60°-80°)	472.5	3.9	B1/500		G1/500
BVH (80°-90°)	79.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7
2.5°	3055.3	3083.3	3070.9	3028.0	2995.1	2948.5	2896.5	2880.9	2826.0	2764.6	2690.8
5°	3538.8	3524.8	3504.6	3437.8	3367.3	3285.3	3155.0	3134.4	3012.4	2873.4	2726.7
7.5°	3814.2	3813.0	3801.0	3761.9	3697.6	3590.4	3433.3	3409.0	3224.7	3001.3	2773.7
10°	3774.2	3771.4	3791.1	3832.0	3851.3	3829.1	3696.7	3672.4	3446.1	3142.7	2828.1
12.5°	3547.1	3548.7	3580.5	3666.2	3782.9	3923.1	3901.6	3889.7	3675.7	3302.6	2894.1
15°	3370.2	3373.9	3399.1	3473.7	3611.4	3865.8	4026.1	4030.3	3897.9	3479.1	2971.2
17.5°	3292.7	3300.6	3312.1	3364.5	3490.6	3751.6	4055.8	4078.1	4092.5	3662.1	3045.4
20°	3317.5	3324.9	3328.2	3361.6	3465.0	3682.3	4035.2	4075.2	4241.7	3834.4	3119.6
22.5°	3428.4	3432.9	3434.9	3443.6	3524.0	3702.1	4021.6	4063.6	4349.8	3989.0	3175.6
25°	3612.2	3608.9	3595.7	3584.6	3638.6	3780.4	4052.9	4092.9	4437.6	4129.2	3212.3
27.5°	3832.4	3828.2	3802.7	3772.2	3803.1	3902.4	4143.2	4175.0	4516.3	4260.3	3230.9
30°	4096.6	4085.9	4037.7	4001.4	4013.3	4085.5	4292.0	4320.9	4637.9	4409.1	3249.0
32.5°	4402.1	4390.6	4320.9	4260.7	4260.7	4320.9	4445.4	4469.3	4741.0	4577.3	3278.3
35°	4784.7	4770.3	4679.6	4578.6	4550.1	4580.6	4654.4	4671.3	4926.5	4789.2	3331.5
37.5°	5235.7	5216.3	5098.8	4963.6	4901.4	4899.7	4952.9	4987.5	5222.9	5067.5	3421.8
40°	5687.9	5674.3	5571.7	5465.3	5343.3	5304.1	5386.2	5396.9	5610.4	5413.0	3537.2
42.5°	6037.5	6035.1	6016.1	6030.1	5905.2	5826.1	5890.4	5899.0	6083.7	5786.9	3660.0
45°	6222.2	6226.4	6318.3	6521.9	6568.1	6510.4	6542.1	6544.6	6624.6	6164.1	3772.6
47.5°	6074.2	6095.7	6328.2	6783.7	7161.8	7353.5	7300.7	7331.2	7149.0	6488.1	3860.8
50°	5497.5	5523.9	5919.6	6667.1	7438.8	8169.3	8141.7	8134.7	7572.0	6725.6	3908.6
52.5°	4783.0	4803.6	5130.2	6060.6	7235.6	8620.3	8873.9	8837.6	7948.0	6903.3	3917.7
55°	3695.1	3727.2	4040.1	4850.2	6413.5	8448.0	9412.3	9379.7	8290.5	6996.5	3907.0
57°	2626.9	2660.7	2971.6	3701.7	5395.2	7851.5	9465.9	9500.5	8475.6	7012.1	3918.9
57.5°	2344.1	2378.7	2686.7	3395.8	5077.8	7635.9	9419.7	9477.4	8509.0	7009.7	3925.5
60°	1180.3	1193.5	1389.7	1895.6	3209.9	6173.2	8817.4	8966.2	8539.1	6888.4	3954.0
62.5°	733.8	724.3	718.2	873.2	1561.6	4093.7	7574.4	7861.0	7963.2	6594.9	3885.1
65°	645.2	627.5	559.4	547.1	689.7	1988.3	5704.0	6060.6	6732.6	6132.4	3721.1
67.5°	606.0	588.7	512.0	465.9	466.3	788.2	3541.3	3942.9	5244.8	5350.3	3333.9
70°	565.6	550.0	478.2	423.8	397.0	436.6	1629.3	1933.9	3418.9	4205.5	2786.5
72.5°	513.7	503.0	434.9	378.9	350.4	326.9	623.7	736.7	1979.3	2824.4	1935.1
75°	459.3	449.4	391.2	337.6	303.0	257.3	351.2	378.5	1005.5	1445.0	952.7
77.5°	399.5	393.7	347.9	298.5	270.9	213.1	248.6	261.8	431.2	619.6	477.8
80°	317.9	329.0	304.2	265.9	240.3	170.7	176.0	184.7	251.1	302.6	271.3
82.5°	207.0	226.3	238.3	216.0	197.9	134.4	126.6	130.3	163.7	184.7	117.9
85°	86.2	96.9	156.7	141.4	131.5	98.1	84.9	86.6	101.4	105.1	48.2
87.5°	38.3	40.8	68.8	64.7	55.7	33.8	36.3	39.6	54.0	51.1	18.6
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°	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7	2660.7
2.5°	2663.2	2628.6	2569.2	2503.7	2450.1	2407.2	2363.9	2334.2	2299.6	2281.0	2271.6
5°	2665.3	2597.2	2472.3	2344.1	2229.5	2124.8	2025.0	1948.3	1876.6	1837.9	1827.1
7.5°	2673.9	2571.7	2369.7	2158.6	1954.9	1769.0	1625.5	1535.7	1470.9	1442.1	1433.8
10°	2680.9	2541.6	2242.7	1930.2	1653.2	1464.8	1353.4	1303.2	1280.9	1277.2	1273.5
12.5°	2697.4	2510.7	2109.1	1691.9	1418.6	1288.3	1249.6	1246.3	1252.4	1261.5	1261.5
15°	2723.4	2480.2	1956.6	1487.4	1269.3	1223.6	1231.4	1249.6	1266.5	1280.5	1282.5
17.5°	2742.4	2442.6	1792.5	1323.8	1189.8	1202.1	1230.2	1255.7	1273.1	1286.7	1287.9
20°	2756.0	2384.5	1617.3	1198.9	1144.0	1182.4	1217.4	1240.1	1252.0	1265.6	1267.7
22.5°	2748.9	2306.6	1461.9	1109.4	1106.9	1153.5	1186.9	1214.1	1205.0	1191.8	1200.5
25°	2715.1	2199.4	1301.9	1042.6	1067.8	1114.8	1156.0	1137.8	1107.3	1101.6	1104.9
27.5°	2655.0	2062.5	1153.9	980.8	1022.4	1078.9	1076.4	1058.3	1047.6	1040.1	1044.7
30°	2590.2	1914.1	1024.5	926.8	972.1	1018.7	1009.2	1008.8	998.1	986.1	991.9
32.5°	2526.3	1764.9	921.8	882.2	934.2	940.4	961.0	967.2	946.1	921.0	919.3
35°	2470.7	1623.9	843.9	841.8	888.4	889.2	919.3	910.7	858.3	832.4	832.4
37.5°	2429.0	1483.3	784.5	805.6	828.2	849.7	864.9	829.1	820.4	806.0	805.6
40°	2410.9	1359.6	747.4	777.9	785.8	813.0	773.8	787.8	792.0	784.5	784.5
42.5°	2391.9	1252.0	715.3	756.9	755.7	752.0	732.2	750.3	766.8	767.2	766.0
45°	2373.0	1159.3	686.8	712.0	729.3	689.3	693.0	712.4	735.5	743.7	743.7
47.5°	2351.9	1085.9	660.9	664.6	691.4	664.6	661.7	676.5	703.7	716.9	719.8
50°	2305.8	1019.9	631.2	622.9	630.3	639.4	641.9	648.9	679.0	700.0	705.0
52.5°	2241.9	961.0	593.2	584.6	584.6	618.8	630.3	632.4	658.0	683.1	688.1
55°	2188.7	923.5	554.1	552.4	550.8	597.0	616.7	620.0	637.8	657.6	660.0
57°	2192.4	920.6	524.0	525.6	525.2	574.7	604.0	611.0	620.0	636.9	639.8
57.5°	2194.5	922.6	517.4	518.2	517.8	568.5	600.3	608.1	615.1	632.8	635.7
60°	2225.4	928.0	490.6	481.5	483.6	535.5	579.2	589.1	593.7	617.2	620.9
62.5°	2179.6	904.1	469.2	447.3	447.3	500.9	550.0	565.6	572.6	604.4	610.6
65°	2046.9	836.9	444.0	408.5	412.7	466.3	514.9	540.5	551.2	590.8	597.4
67.5°	1842.0	759.0	417.2	373.9	378.0	430.0	478.6	506.3	523.2	575.9	581.3
70°	1575.2	663.7	380.9	337.2	342.2	390.4	435.8	467.1	492.2	561.9	563.6
72.5°	1161.3	544.2	330.2	296.8	302.2	344.2	392.5	428.8	462.6	526.9	526.0
75°	690.5	425.5	274.2	256.0	259.7	298.9	353.3	397.4	448.1	513.3	521.1
77.5°	418.9	320.3	223.4	214.4	218.9	258.9	325.3	372.3	441.9	484.0	481.5
80°	253.1	228.8	178.5	172.7	177.3	221.4	300.9	353.3	386.3	413.5	413.5
82.5°	132.3	139.8	131.1	126.6	132.7	179.7	273.7	308.4	341.4	293.1	273.7
85°	54.0	73.0	79.6	79.2	82.9	124.5	236.2	263.8	220.1	209.0	214.0
87.5°	18.1	30.9	38.8	33.4	35.0	78.3	163.7	127.4	151.3	105.5	100.2
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)