

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: P191233

Luminaire Tested: **GAN-AF-05-LED-U-SL4-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL4-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA 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: 19053.5 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

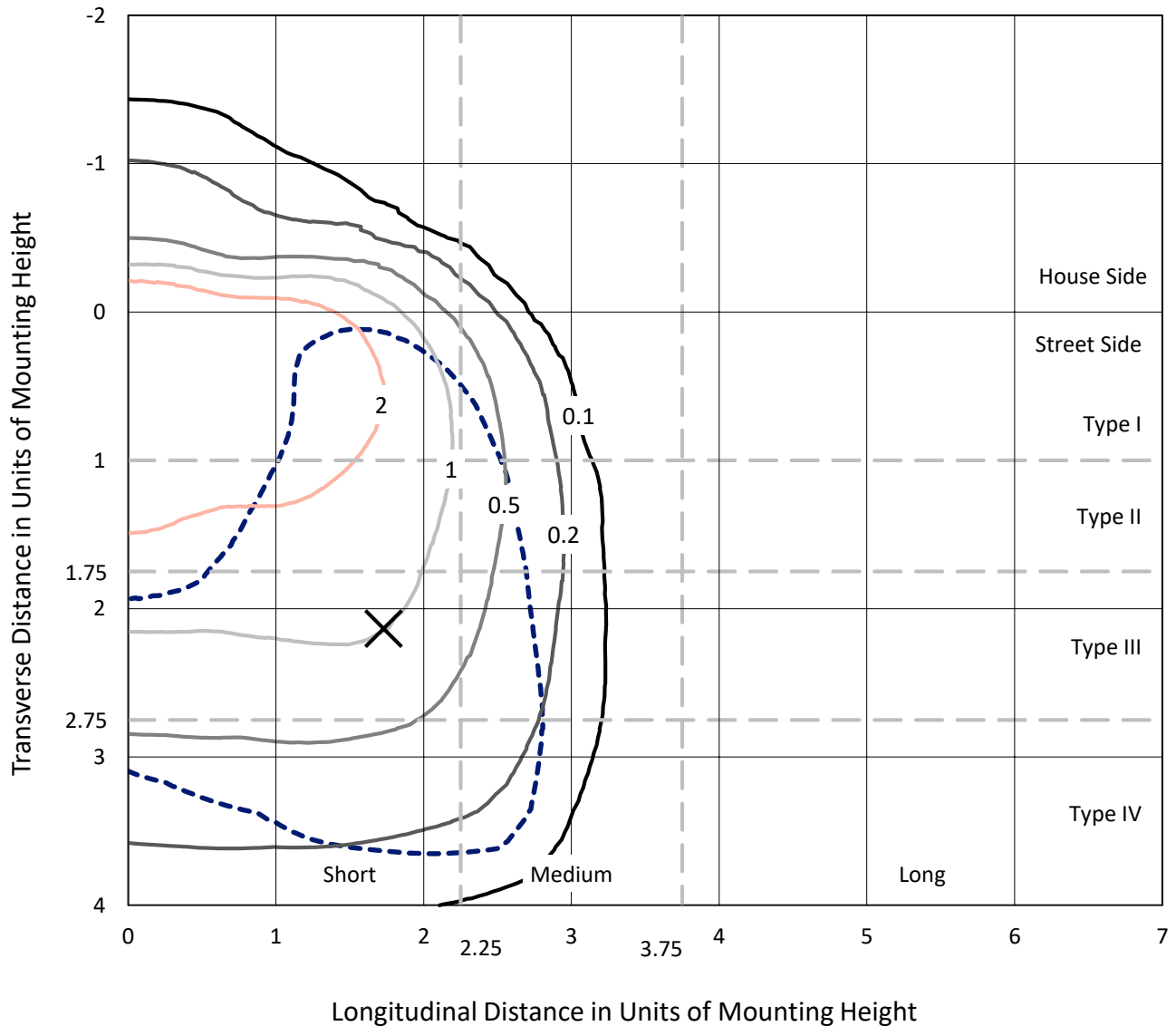
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

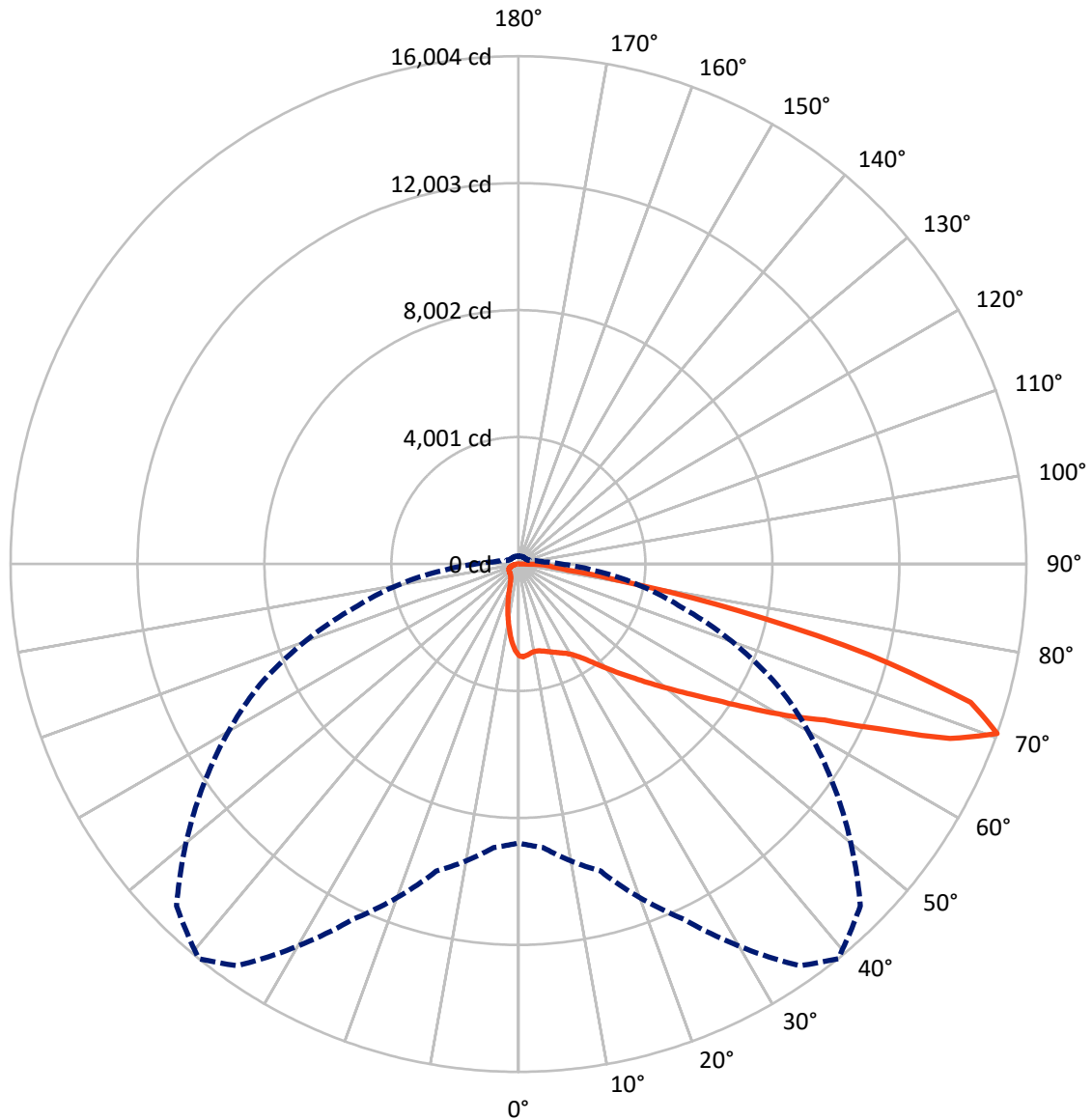
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2167.0	0.0	2167.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	16886.4	0.0	16886.4
	% Fixture	88.6	0.0	88.6
Total	Lumens	19053.5	0.0	19053.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.3
10°-20°	620.5	3.3
20°-30°	966.1	5.1
30°-40°	1505.1	7.9
40°-50°	2526.8	13.3
50°-60°	4014.0	21.1
60°-70°	5354.2	28.1
70°-80°	3233.3	17.0
80°-90°	585.2	3.1
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°	19053.5	100.0
0°-180°	19053.5	100.0



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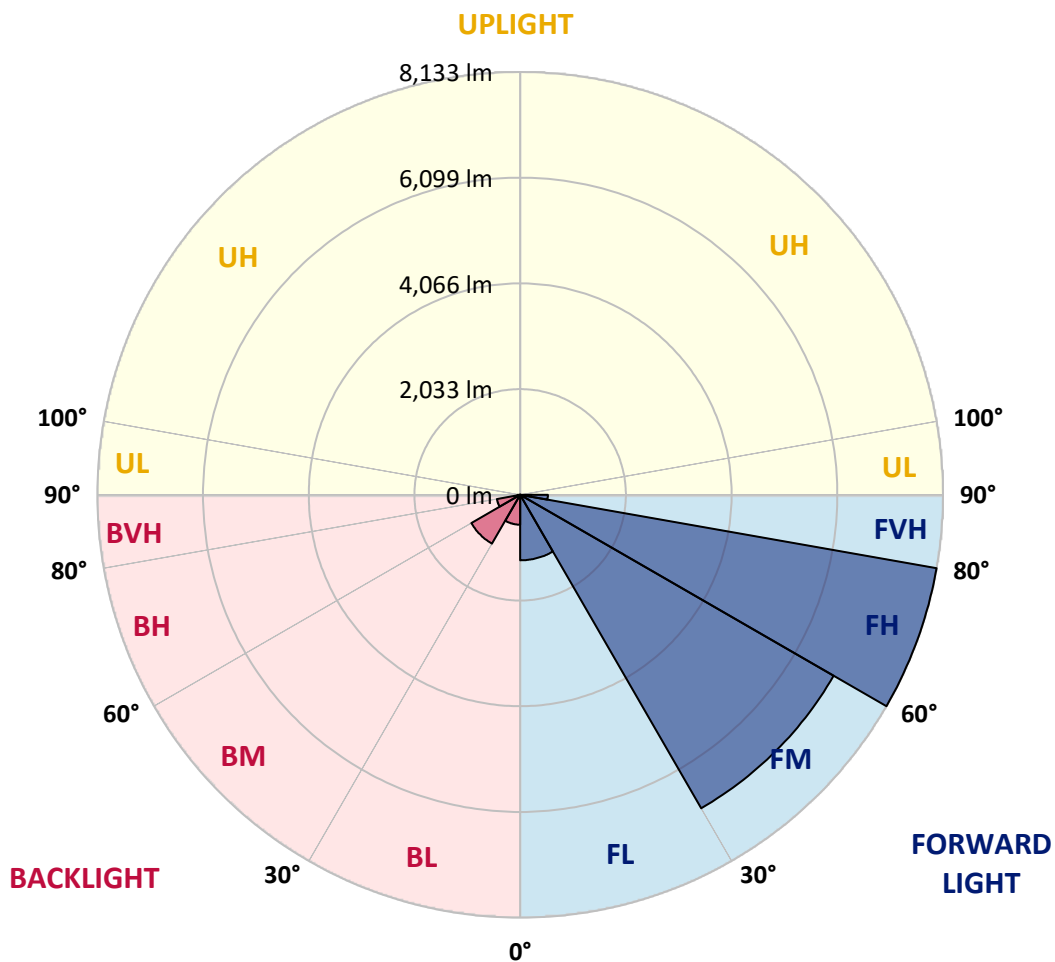
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1260.0	6.6			
FM	(30°-60°)	6961.4	36.5			
FH	(60°-80°)	8132.6	42.7			G4/12000
FVH	(80°-90°)	532.4	2.8			G4/750
BL	(0°-30°)	574.9	3.0	B2/1000		
BM	(30°-60°)	1084.5	5.7	B2/2500		
BH	(60°-80°)	455.0	2.4	B1/500		G1/500
BVH	(80°-90°)	52.7	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°	39°	45°	55°	65°	75°	85°
0°	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6
2.5°	2948.8	2947.8	2940.1	2934.2	2929.4	2927.5	2931.4	2916.8	2904.3	2888.7	2872.2
5°	2926.6	2925.5	2913.0	2901.3	2889.7	2885.8	2884.8	2858.7	2843.2	2820.0	2789.0
7.5°	2902.3	2897.5	2881.0	2861.6	2841.2	2831.6	2821.9	2788.0	2770.6	2747.3	2711.4
10°	2877.2	2871.3	2855.8	2836.4	2817.1	2802.5	2786.0	2753.1	2734.8	2717.3	2675.6
12.5°	2851.0	2846.2	2842.3	2833.5	2820.0	2807.4	2794.8	2766.7	2747.3	2727.0	2678.5
15°	2847.1	2845.1	2853.8	2859.7	2851.9	2844.2	2830.6	2806.4	2786.0	2765.8	2702.7
17.5°	2878.1	2877.2	2899.3	2914.9	2911.0	2897.5	2879.1	2851.9	2835.4	2818.0	2739.6
20°	2945.9	2950.7	2977.9	2998.2	2978.8	2959.5	2929.4	2891.7	2882.9	2875.2	2777.3
22.5°	3073.8	3078.6	3098.0	3105.8	3055.3	3027.2	2985.6	2937.2	2931.4	2937.2	2822.8
25°	3273.3	3268.4	3265.6	3236.5	3144.4	3100.9	3047.6	2997.2	3000.1	3026.3	2886.8
27.5°	3537.8	3511.6	3471.0	3383.7	3237.4	3189.0	3124.1	3077.6	3096.1	3146.4	2982.7
30°	3811.9	3782.9	3688.9	3546.5	3359.6	3306.3	3233.6	3181.3	3229.8	3309.1	3110.6
32.5°	4065.7	4061.8	3924.3	3741.2	3528.1	3481.6	3409.0	3349.9	3428.3	3549.4	3302.4
35°	4342.8	4351.5	4186.8	3966.9	3755.8	3707.3	3655.0	3610.4	3715.1	3881.7	3580.4
37.5°	4639.2	4656.7	4461.9	4213.9	4015.4	3995.0	3964.0	3944.6	4106.4	4337.0	3968.8
40°	5035.5	5018.0	4747.7	4492.9	4334.0	4333.1	4323.4	4346.6	4616.0	4931.7	4467.7
42.5°	5459.7	5408.4	5050.9	4792.3	4683.8	4716.7	4736.1	4831.0	5229.2	5654.5	5076.1
45°	5917.0	5801.7	5365.8	5109.0	5072.2	5142.0	5207.8	5414.2	5950.9	6476.9	5742.6
47.5°	6282.1	6170.7	5691.3	5441.3	5521.7	5627.4	5754.2	6080.7	6758.8	7326.5	6400.4
50°	6569.9	6497.3	6019.7	5828.8	6016.8	6179.5	6386.8	6835.4	7599.6	8153.7	7009.7
52.5°	6848.9	6794.6	6351.0	6226.0	6598.0	6822.8	7104.6	7645.2	8461.8	8967.5	7522.2
55°	7100.7	7062.0	6707.5	6721.0	7281.9	7574.4	7929.0	8567.4	9401.4	9693.1	7956.1
57.5°	7384.6	7335.2	7114.3	7341.9	8160.6	8540.3	9001.4	9604.0	10283.0	10338.2	8286.5
60°	7670.4	7627.7	7565.7	8058.8	9276.5	9675.6	10112.5	10608.5	11177.2	10839.1	8267.1
62.5°	7918.4	7923.2	8032.7	8811.5	10369.2	10831.3	11364.2	11854.3	11986.0	10926.2	7655.9
65°	8338.8	8415.3	8741.7	9877.1	11907.6	12525.6	13179.5	13101.0	12209.8	10111.6	6345.2
67.5°	8838.6	8973.3	9635.0	11297.3	13851.8	14672.3	14925.2	13383.0	11313.7	8219.6	4523.0
70°	8788.3	8973.3	10020.5	12356.1	15454.0	16004.3	15237.1	12111.9	8984.0	5369.7	2402.4
72.5°	7804.1	8068.5	9234.9	11870.7	14949.4	14900.9	13228.0	9029.5	5337.7	2156.4	938.7
75°	5947.9	6215.3	7219.0	9378.2	11815.6	11408.7	9386.0	4988.0	2025.6	856.3	591.9
77.5°	3421.6	3628.8	4403.8	5751.3	7496.0	7078.5	5224.3	2218.4	986.1	596.7	462.1
80°	1910.4	2025.6	2496.4	2917.8	3673.4	3367.2	2337.5	1378.5	736.2	433.0	356.5
82.5°	1510.3	1612.9	2018.8	1840.6	1677.8	1548.0	1342.6	1227.3	588.0	273.2	213.1
85°	1319.4	1417.2	1708.8	1449.2	1146.0	1051.1	1090.8	1208.0	457.3	164.7	182.1
87.5°	1222.5	1353.3	1522.9	1117.0	892.2	790.4	1006.5	1324.2	147.2	102.7	73.7
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°	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6	2892.6
2.5°	2857.7	2842.3	2817.1	2794.8	2759.9	2741.5	2721.2	2706.6	2695.0	2685.3	2700.8
5°	2769.5	2740.5	2687.3	2630.1	2562.3	2509.0	2464.4	2422.8	2393.7	2374.4	2387.9
7.5°	2686.3	2638.8	2555.5	2451.8	2335.6	2236.8	2155.5	2083.8	2034.3	2002.3	2014.9
10°	2638.8	2579.7	2450.9	2288.1	2116.7	1962.6	1834.8	1724.3	1647.8	1604.2	1610.9
12.5°	2627.1	2550.6	2372.4	2148.6	1914.2	1700.1	1519.9	1366.9	1259.4	1203.2	1205.1
15°	2635.9	2538.0	2298.8	2014.9	1718.6	1448.3	1223.4	1037.5	912.6	848.6	847.6
17.5°	2650.5	2528.3	2221.3	1870.6	1519.9	1206.1	955.1	773.0	662.6	611.3	607.4
20°	2665.9	2512.9	2134.1	1714.7	1313.6	981.3	747.9	605.5	535.7	507.6	505.6
22.5°	2688.2	2499.3	2044.1	1550.0	1111.1	799.2	615.1	519.2	482.4	467.9	466.0
25°	2724.0	2492.5	1948.1	1378.5	929.0	668.4	535.7	476.6	455.3	445.6	444.7
27.5°	2784.2	2502.2	1858.0	1211.9	780.8	580.2	491.1	455.3	439.8	431.1	430.2
30°	2861.6	2532.2	1763.1	1053.9	665.5	520.2	464.0	440.8	428.2	419.4	419.4
32.5°	2990.5	2582.6	1663.3	917.4	583.2	478.5	443.7	428.2	417.6	410.7	409.8
35°	3180.4	2677.6	1570.3	804.0	524.1	448.6	426.3	414.6	406.8	402.9	402.9
37.5°	3456.4	2827.7	1488.0	722.7	488.3	428.2	409.8	401.1	396.2	396.2	396.2
40°	3827.5	3035.0	1421.1	668.4	467.9	413.7	397.2	390.4	387.5	388.4	388.4
42.5°	4285.7	3304.3	1376.6	630.6	458.2	404.9	388.4	382.7	379.7	378.8	379.7
45°	4807.8	3610.4	1371.7	602.5	448.6	399.2	382.7	376.9	371.0	367.1	367.1
47.5°	5315.4	3921.4	1411.5	592.9	437.8	392.3	377.8	371.9	363.2	354.6	354.6
50°	5763.9	4185.8	1464.8	596.7	434.0	382.7	370.1	367.1	353.6	343.9	342.9
52.5°	6120.4	4389.3	1508.3	608.3	437.8	375.8	360.4	361.3	346.8	336.1	335.2
55°	6406.2	4523.0	1496.7	620.0	446.6	371.9	351.7	353.6	342.0	331.3	331.3
57.5°	6531.1	4473.6	1367.9	610.3	453.4	373.0	344.8	352.6	342.9	333.3	333.3
60°	6262.8	4034.7	1126.7	567.6	444.7	370.1	342.0	356.5	355.5	345.9	344.8
62.5°	5451.0	3249.1	873.8	504.7	414.6	355.5	334.2	355.5	366.2	363.2	362.3
65°	4201.4	2314.3	667.5	436.9	373.9	331.3	313.8	333.3	347.8	351.7	350.7
67.5°	2727.0	1418.2	514.4	373.0	328.4	303.2	287.8	296.5	299.3	299.3	297.4
70°	1340.7	763.3	409.8	313.8	281.9	273.2	264.4	259.6	254.8	250.9	250.9
72.5°	661.6	498.9	337.2	265.5	243.2	239.3	237.3	231.5	227.6	222.8	220.9
75°	489.2	405.9	286.7	223.8	209.3	205.4	209.3	204.4	203.5	199.6	197.6
77.5°	402.0	345.9	247.0	191.8	179.2	172.5	178.2	179.2	180.1	174.4	172.5
80°	326.4	292.6	206.3	158.9	147.2	142.4	146.3	154.1	156.0	147.2	143.4
82.5°	235.4	239.3	166.6	124.0	114.3	110.5	118.2	127.9	129.8	117.2	114.3
85°	197.6	199.6	127.9	88.2	78.5	72.6	85.2	94.9	101.7	89.1	86.2
87.5°	82.3	117.2	73.7	49.4	43.6	37.7	45.5	50.3	61.1	56.2	55.2
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)