

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: P299241

Luminaire Tested: **GAA-AF-05-LED-U-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-SL2-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15613.8 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

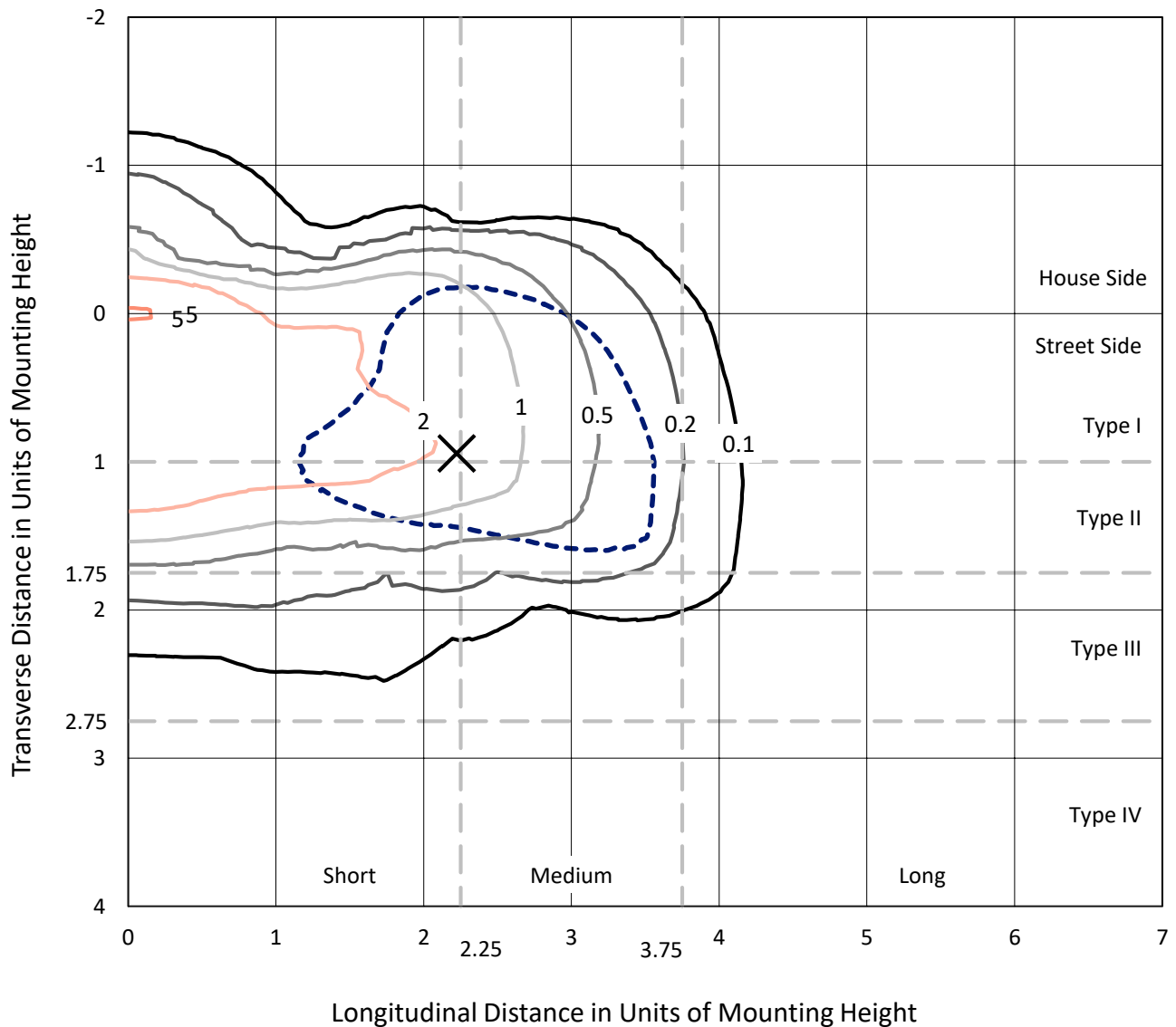
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

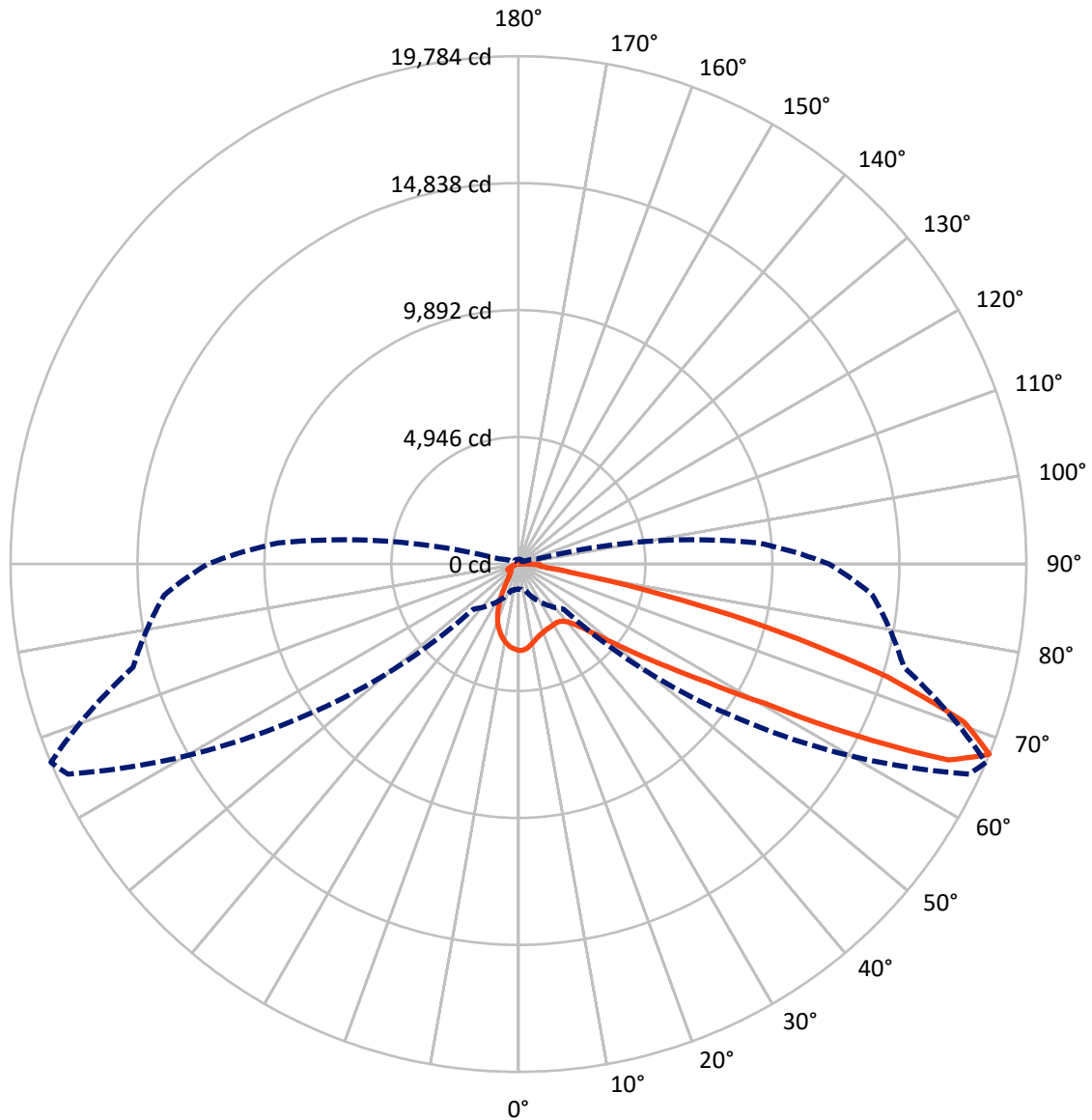


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2587.0	0.0	2587.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	13026.8	0.0	13026.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	15613.8	0.0	15613.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	1.8
10°-20°	664.8	4.3
20°-30°	901.2	5.8
30°-40°	1281.1	8.2
40°-50°	2143.4	13.7
50°-60°	3390.8	21.7
60°-70°	4319.6	27.7
70°-80°	2262.6	14.5
80°-90°	362.9	2.3
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°	15613.8	100.0
0°-180°	15613.8	100.0

Coefficient of Utilization



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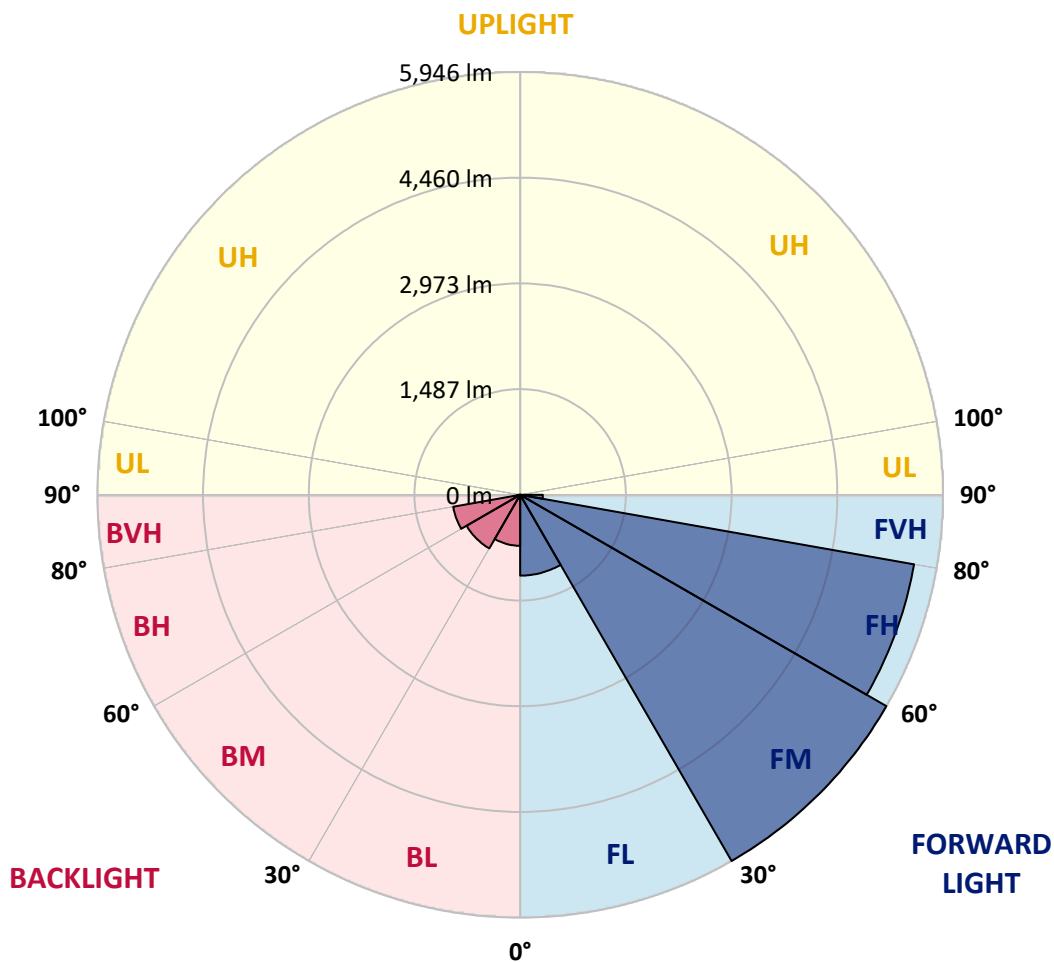
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1136.3	7.3			
FM (30°-60°)	5946.1	38.1			
FH (60°-80°)	5625.3	36.0			G3/7500
FVH (80°-90°)	319.1	2.0			G3/500
BL (0°-30°)	717.1	4.6	B2/1000		
BM (30°-60°)	869.3	5.6	B1/1000		
BH (60°-80°)	956.9	6.1	B2/1000		G2/1000
BVH (80°-90°)	43.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3229.3	3234.7	3251.6	3262.4	3310.9	3331.7	3346.3	3360.9	3363.2	3370.2	3363.2
5°	2890.5	2902.0	2933.6	2969.0	3063.0	3136.9	3214.6	3295.5	3310.1	3362.5	3377.1
7.5°	2627.9	2624.8	2651.0	2693.4	2789.6	2892.0	3028.3	3189.2	3220.8	3338.6	3395.6
10°	2436.2	2433.9	2461.6	2505.5	2597.1	2694.1	2848.1	3068.3	3113.0	3300.9	3413.3
12.5°	2294.5	2295.3	2323.0	2371.5	2464.7	2562.5	2718.8	2951.3	3008.3	3257.0	3431.8
15°	2200.6	2206.7	2229.1	2280.7	2371.5	2469.3	2622.5	2863.5	2927.4	3222.3	3452.6
17.5°	2169.0	2179.0	2186.7	2224.5	2302.2	2400.0	2550.1	2798.9	2866.6	3198.5	3471.0
20°	2198.3	2209.8	2195.2	2208.3	2257.6	2343.8	2493.2	2748.0	2817.3	3171.5	3473.3
22.5°	2323.8	2334.6	2291.4	2253.7	2250.6	2303.0	2446.2	2708.0	2779.6	3151.5	3474.1
25°	2544.8	2551.7	2479.3	2391.5	2306.1	2288.4	2413.1	2680.3	2756.5	3133.8	3459.5
27.5°	2815.8	2821.2	2738.0	2608.7	2437.0	2323.0	2401.5	2664.1	2743.4	3118.4	3434.8
30°	3145.3	3170.7	3059.1	2895.9	2645.6	2425.4	2424.6	2655.6	2728.8	3092.2	3386.3
32.5°	3482.6	3493.4	3416.4	3250.8	2926.7	2605.6	2489.3	2661.8	2724.9	3060.6	3324.7
35°	3824.5	3838.3	3788.3	3655.1	3310.9	2869.7	2615.6	2698.0	2748.8	3049.9	3281.6
37.5°	4267.2	4285.7	4216.4	4062.4	3778.3	3227.7	2825.8	2788.8	2821.9	3080.7	3268.5
40°	4967.1	4958.6	4756.1	4526.7	4289.5	3685.9	3126.1	2942.8	2962.1	3180.0	3308.6
42.5°	5781.7	5760.9	5412.1	5051.8	4851.6	4240.2	3523.4	3210.0	3206.2	3375.6	3449.5
45°	6431.6	6414.6	6100.5	5656.2	5496.1	4871.6	4037.0	3608.1	3579.6	3685.9	3709.7
47.5°	6783.5	6784.2	6603.3	6240.6	6236.8	5673.9	4696.8	4184.0	4134.8	4184.8	4159.4
50°	6660.3	6676.4	6657.2	6541.7	6912.8	6725.7	5558.4	4987.1	4887.8	4937.1	4839.3
52.5°	6064.3	6085.1	6199.1	6376.1	7196.9	7996.9	6824.3	5985.0	5869.5	5851.8	5743.2
55°	5007.9	5033.3	5265.8	5747.1	6960.6	8850.8	8821.6	7257.0	7073.0	6905.9	6859.7
57.5°	3451.8	3494.1	3868.3	4582.9	6196.0	9108.8	11200.0	9070.3	8696.1	8112.4	8123.2
60°	1945.7	1995.0	2436.2	3085.3	4652.9	8828.5	13009.5	11816.8	11026.8	9525.3	9605.4
62.5°	1237.3	1290.5	1625.4	2143.6	2791.9	7319.4	13750.9	15635.1	14631.8	11267.0	11345.5
65°	1001.7	1024.8	1182.7	1769.4	2027.3	4409.6	13188.1	18780.4	18406.2	13477.6	13111.1
67.5°	977.9	985.6	1067.2	1485.3	1944.2	2478.5	10519.4	19368.7	19783.7	15541.9	13846.4
70°	966.3	993.3	1202.7	1417.5	1861.8	2090.5	6321.5	17756.3	18411.6	16081.6	12867.8
72.5°	468.9	467.4	605.2	1282.0	2097.4	2168.2	3247.7	14366.9	15024.5	13932.7	10574.0
75°	378.1	345.7	330.3	469.7	2016.6	2239.1	2069.7	9885.7	10361.5	9341.3	6500.1
77.5°	358.8	320.3	293.4	294.1	852.4	2374.6	1753.2	5471.4	5610.0	4219.5	1780.9
80°	297.2	261.8	242.5	273.3	412.7	2261.4	1895.7	2476.2	2272.2	1036.4	592.9
82.5°	206.4	187.9	182.5	229.5	330.3	1611.6	2204.4	1330.5	1115.7	519.0	365.7
85°	131.7	112.4	124.7	167.1	257.2	743.8	2270.6	1037.2	824.6	329.5	206.4
87.5°	60.8	49.3	61.6	92.4	167.9	256.4	2160.5	1165.0	849.3	174.0	130.1
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°	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9	3367.9
2.5°	3369.4	3354.8	3343.2	3321.7	3297.8	3274.7	3253.9	3227.7	3220.0	3213.1	3223.9
5°	3380.2	3365.6	3323.2	3257.0	3183.8	3115.3	3046.8	2988.3	2952.1	2932.1	2943.6
7.5°	3396.3	3375.6	3287.8	3166.1	3034.5	2914.3	2790.4	2691.1	2617.9	2583.3	2593.3
10°	3411.0	3370.9	3227.7	3045.2	2852.7	2674.1	2478.5	2316.8	2196.7	2133.6	2149.0
12.5°	3417.1	3353.2	3143.8	2894.3	2630.2	2368.4	2080.5	1838.7	1666.2	1603.1	1590.0
15°	3423.3	3333.2	3051.4	2722.6	2361.5	1991.1	1587.7	1298.2	1155.0	1123.4	1116.5
17.5°	3424.8	3298.6	2946.7	2536.3	2046.6	1542.3	1085.7	901.6	902.4	953.2	959.4
20°	3408.7	3247.0	2819.6	2304.5	1669.3	1066.4	745.3	713.8	830.0	957.1	972.5
22.5°	3371.7	3178.4	2675.7	2034.3	1237.3	702.2	576.7	611.4	761.5	917.0	934.7
25°	3324.7	3095.3	2505.5	1720.9	819.3	502.0	483.5	525.9	627.5	731.5	741.5
27.5°	3260.8	2996.7	2314.5	1362.1	532.1	413.5	425.8	454.3	495.9	542.1	546.7
30°	3178.4	2878.9	2110.5	993.3	401.9	371.9	389.6	405.0	422.7	448.9	451.2
32.5°	3083.7	2765.7	1901.1	686.0	356.5	350.3	364.2	371.9	385.8	401.9	403.5
35°	3004.4	2657.9	1683.9	485.1	337.2	334.2	343.4	346.5	359.6	377.3	378.8
37.5°	2959.0	2570.2	1459.9	391.1	324.2	319.5	324.9	324.9	343.4	369.6	373.4
40°	2962.1	2521.7	1235.8	353.4	313.4	307.2	308.0	308.0	331.9	360.3	362.7
42.5°	3046.0	2534.0	1037.2	338.8	304.9	298.0	294.1	296.4	316.5	334.9	336.5
45°	3243.1	2621.0	850.8	329.5	296.4	294.1	285.7	284.9	292.6	301.1	301.1
47.5°	3566.5	2792.7	724.5	323.4	289.5	288.7	278.7	268.7	268.0	271.0	271.0
50°	4092.4	3088.4	639.8	316.5	284.9	278.7	267.2	251.8	246.4	248.7	248.7
52.5°	4880.9	3615.8	607.5	307.2	274.9	264.9	251.8	236.4	231.8	232.5	232.5
55°	5914.9	4425.8	602.9	296.4	264.1	247.9	237.2	225.6	220.2	221.8	221.8
57.5°	7178.5	5546.1	685.3	279.5	249.5	231.0	224.8	217.1	213.3	215.6	214.8
60°	8714.6	7012.1	1016.4	261.8	234.8	215.6	215.6	209.4	206.4	208.7	207.9
62.5°	10483.9	8696.1	1429.1	248.7	219.4	203.3	206.4	203.3	200.2	201.7	201.0
65°	12053.2	9793.3	1338.2	238.7	204.0	191.7	197.1	195.6	193.3	194.8	194.0
67.5°	12098.6	9386.7	751.5	227.9	189.4	180.2	187.9	187.1	185.6	187.1	186.3
70°	10797.3	7926.1	423.5	207.9	174.0	166.3	177.1	176.3	174.8	177.9	177.1
72.5°	8650.6	5751.7	309.5	183.3	158.6	151.7	164.0	163.2	163.2	167.9	165.5
75°	4977.9	2959.8	247.2	157.1	142.4	137.1	147.8	148.6	150.1	156.3	151.7
77.5°	1419.1	922.4	201.7	133.2	122.4	120.1	130.9	132.4	133.2	140.1	134.0
80°	527.4	425.0	166.3	111.6	100.1	100.9	110.9	113.2	114.0	120.9	113.2
82.5°	336.5	280.3	134.7	86.2	78.5	77.8	90.1	93.2	93.2	93.9	89.3
85°	196.3	167.9	101.6	62.4	55.4	53.1	67.0	72.4	70.1	68.5	65.4
87.5°	131.7	115.5	62.4	34.6	30.0	28.5	39.3	43.1	41.6	39.3	37.0
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)