

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: P299955

Luminaire Tested: **GAA-AF-04-LED-U-SL3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-04-LED-U-SL3-8030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V  
Square Medium OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

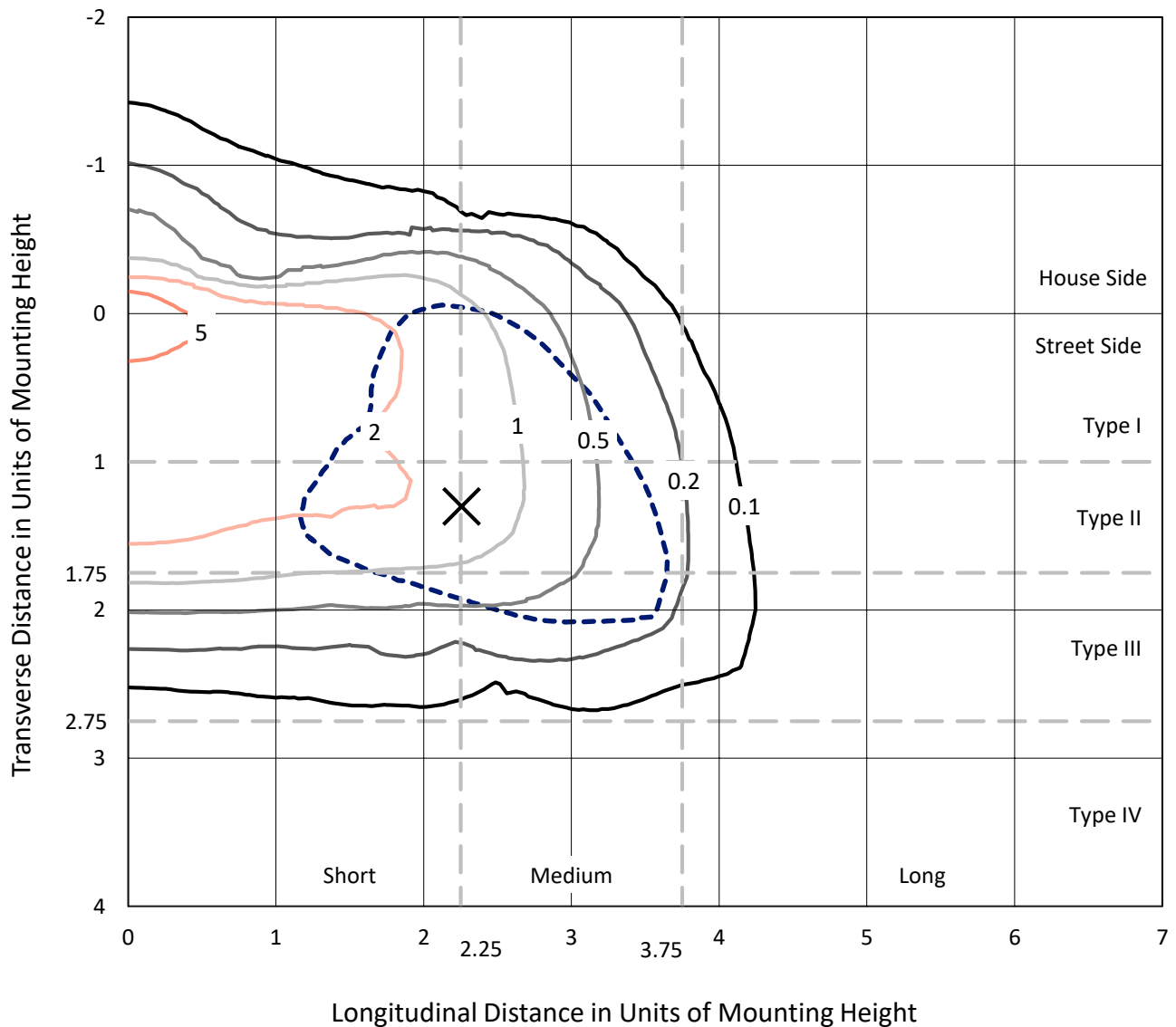
Lumens per Lamp: N/A  
Luminaire Lumens: 12864.8 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (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

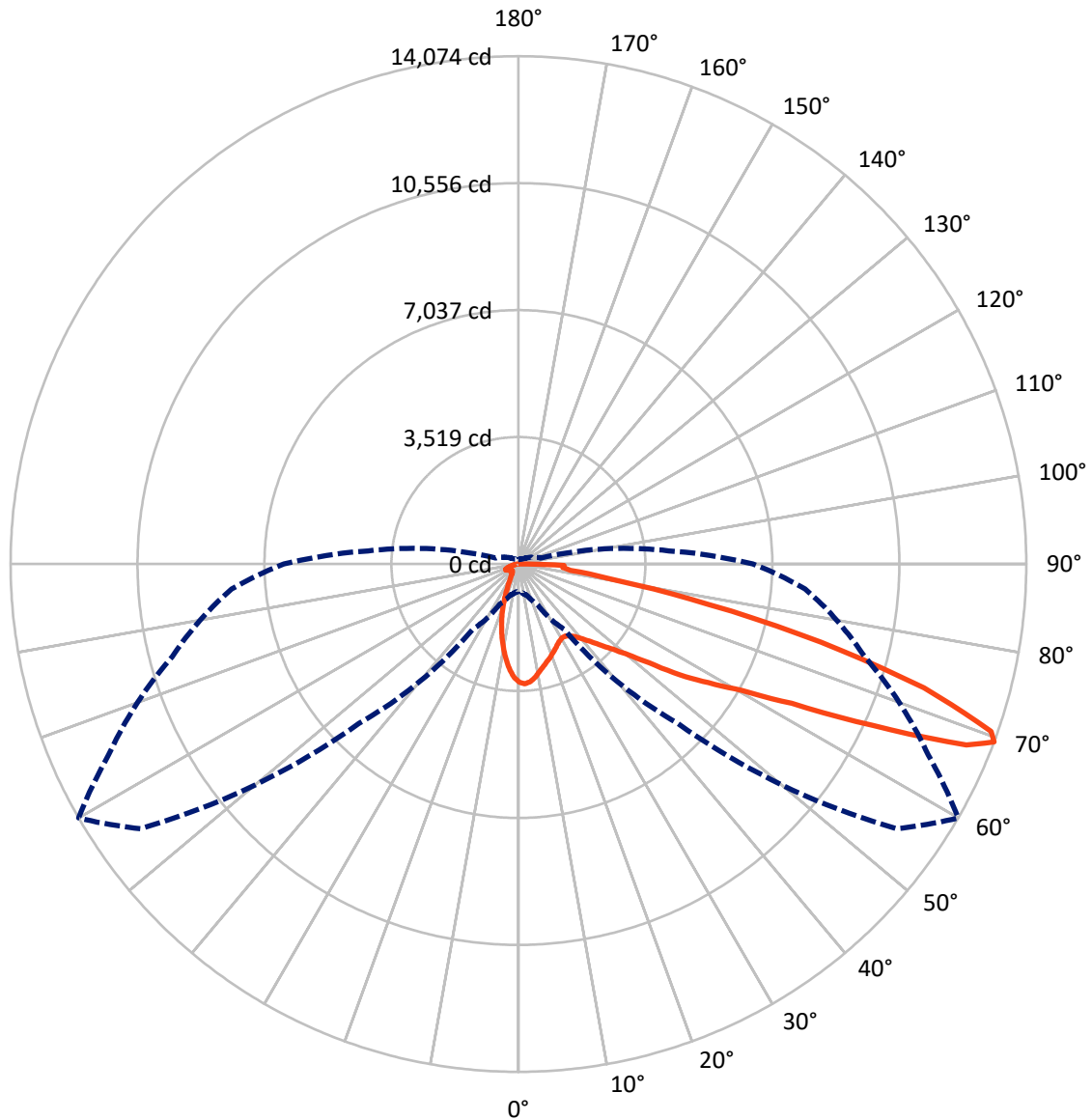
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1830.3	0.0	1830.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	11034.5	0.0	11034.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	12864.8	0.0	12864.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.2	2.2
10°-20°	590.5	4.6
20°-30°	752.5	5.8
30°-40°	1034.4	8.0
40°-50°	1678.5	13.0
50°-60°	2691.9	20.9
60°-70°	3582.7	27.8
70°-80°	1934.4	15.0
80°-90°	322.8	2.5
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°	12864.8	100.0
0°-180°	12864.8	100.0

**Coefficient of Utilization**



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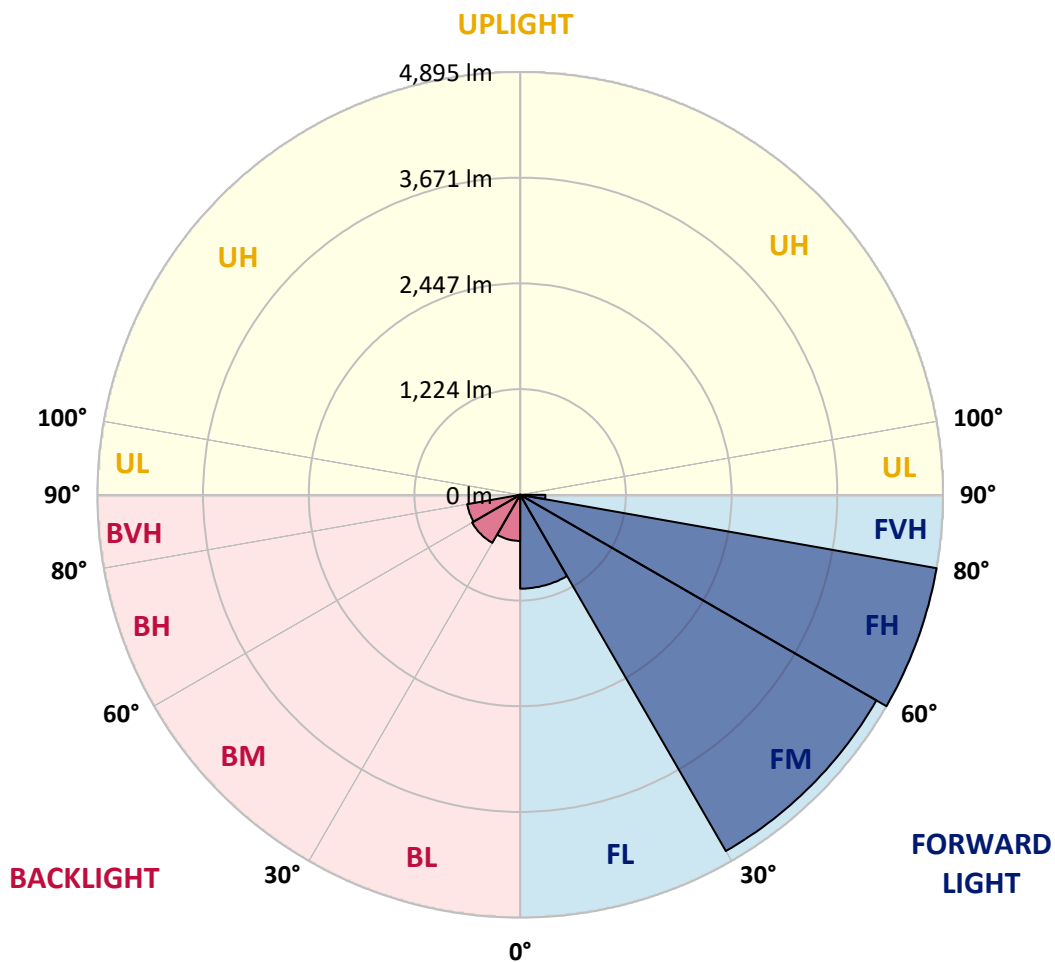
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1086.3	8.4			
FM	(30°-60°)	4761.8	37.0			
FH	(60°-80°)	4894.8	38.0			G2/5000
FVH	(80°-90°)	291.7	2.3			G3/500
BL	(0°-30°)	533.9	4.2	B2/1000		
BM	(30°-60°)	643.0	5.0	B1/1000		
BH	(60°-80°)	622.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	31.1	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1
2.5°	3345.3	3352.7	3349.6	3347.7	3353.3	3344.6	3326.6	3321.0	3312.3	3291.8	3257.0
5°	3219.7	3242.1	3240.9	3257.6	3285.6	3293.1	3285.0	3286.2	3270.1	3244.6	3186.8
7.5°	3002.8	3012.2	3017.1	3053.8	3104.8	3145.8	3180.6	3191.8	3184.3	3162.6	3088.0
10°	2779.1	2786.6	2798.4	2841.3	2905.9	2962.4	3028.3	3066.2	3082.4	3078.7	2995.4
12.5°	2587.1	2594.5	2610.1	2658.6	2735.6	2805.2	2900.9	2948.2	2986.7	3009.7	2920.2
15°	2415.0	2431.1	2446.0	2502.0	2588.3	2679.7	2787.8	2847.5	2907.1	2958.7	2853.7
17.5°	2280.7	2296.9	2305.6	2356.5	2448.5	2560.4	2687.1	2757.4	2831.9	2916.5	2787.8
20°	2203.0	2210.5	2206.8	2235.4	2318.0	2436.7	2587.1	2668.5	2758.6	2876.7	2721.9
22.5°	2181.3	2181.9	2168.2	2165.1	2218.6	2318.6	2480.2	2579.0	2689.6	2850.6	2665.4
25°	2234.1	2232.2	2195.0	2164.5	2170.1	2228.5	2377.0	2492.0	2631.8	2845.0	2621.9
27.5°	2351.6	2357.2	2301.8	2244.7	2188.1	2186.3	2298.7	2419.9	2584.6	2870.5	2603.2
30°	2516.2	2525.6	2466.5	2393.8	2287.6	2199.9	2268.3	2377.0	2555.4	2923.3	2600.1
32.5°	2696.5	2706.4	2661.7	2585.2	2446.0	2284.4	2289.4	2380.8	2554.2	2997.2	2621.3
35°	2888.5	2899.7	2876.7	2812.1	2657.3	2440.4	2370.2	2441.1	2594.5	3110.4	2677.8
37.5°	3102.9	3120.3	3126.5	3065.0	2899.7	2646.1	2502.6	2555.4	2685.9	3267.6	2781.6
40°	3411.8	3436.0	3434.1	3345.9	3177.5	2923.9	2707.0	2720.7	2828.2	3477.6	2947.5
42.5°	4003.4	4008.3	3853.6	3661.6	3483.2	3216.0	2948.2	2937.0	3024.6	3743.6	3191.8
45°	4755.9	4735.4	4391.2	4020.2	3802.6	3551.6	3262.0	3207.3	3273.8	4068.0	3497.5
47.5°	5380.5	5333.3	4898.3	4386.2	4140.7	3916.4	3630.5	3534.8	3571.5	4435.9	3892.8
50°	5597.4	5562.0	5201.5	4690.7	4460.8	4361.3	4084.2	3948.7	3958.6	4874.6	4355.7
52.5°	5550.8	5545.8	5305.3	4891.4	4760.3	4828.7	4726.7	4543.4	4446.5	5361.9	4855.4
55°	5440.8	5451.4	5364.3	5125.1	5102.7	5279.8	5566.3	5430.8	5129.4	5853.4	5371.8
57.5°	5058.6	5085.9	5277.3	5419.0	5653.9	5917.4	6242.5	6203.9	5864.6	6384.8	5985.8
60°	4075.5	4138.9	4652.2	5361.9	6221.3	7045.4	7190.8	7101.3	6622.8	7044.1	6796.8
62.5°	2855.6	2921.4	3531.7	4642.2	6128.1	8319.3	8886.1	8500.2	7711.6	8015.4	7846.4
65°	1528.8	1560.5	2026.5	3221.0	5173.6	8582.2	11363.8	10776.5	9435.5	9213.0	8744.4
67.5°	843.3	860.7	1039.1	1626.3	3313.6	7557.4	12942.3	13386.0	11590.0	10010.3	8581.0
69°	762.5	778.7	895.5	1231.7	2217.3	6248.7	12788.2	14074.0	12534.6	9931.4	7976.9
70°	745.7	760.7	865.7	1135.4	1794.7	5150.6	12271.8	13898.1	12759.6	9648.6	7449.9
72.5°	671.2	687.3	789.2	1019.8	1533.7	2567.8	9720.7	11751.0	11584.4	8365.9	5650.8
75°	625.8	640.7	813.5	998.7	1468.5	1625.1	6408.4	8660.5	8515.7	5852.2	3047.0
77.5°	267.8	266.6	377.2	845.2	1490.2	1573.5	3443.4	5410.3	4936.2	2501.3	875.0
80°	179.0	175.9	179.0	248.6	1366.6	1582.2	1804.1	2746.2	2074.4	637.6	431.3
82.5°	154.1	151.6	157.2	151.6	480.4	1805.9	1533.7	1460.4	986.2	362.3	213.8
85°	103.8	99.4	135.5	136.1	226.8	1604.6	1727.6	1233.6	797.9	215.0	105.6
87.5°	49.7	48.5	78.9	96.3	133.0	651.9	1938.3	1264.0	804.8	110.0	50.3
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°	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1	3278.1
2.5°	3246.4	3221.0	3196.1	3166.3	3135.2	3100.4	3083.0	3065.6	3061.3	3056.3	3038.9
5°	3157.0	3120.9	3058.8	2990.4	2918.3	2848.1	2794.7	2761.1	2735.6	2722.6	2699.6
7.5°	3041.4	2988.5	2879.8	2761.7	2640.5	2529.9	2434.2	2373.9	2316.8	2290.0	2259.6
10°	2931.4	2852.5	2683.4	2509.4	2335.4	2168.2	2011.0	1899.8	1801.0	1745.7	1706.5
12.5°	2836.9	2728.8	2494.5	2259.0	2020.3	1782.3	1546.8	1361.6	1206.9	1125.4	1083.8
15°	2744.9	2614.4	2314.9	2016.0	1709.6	1385.8	1076.3	866.3	738.3	687.3	669.9
17.5°	2661.7	2494.5	2134.7	1771.1	1388.9	997.4	723.4	607.8	558.7	541.9	536.3
20°	2571.6	2373.3	1947.6	1515.1	1054.6	697.3	564.9	513.9	494.1	489.1	486.6
22.5°	2484.6	2254.0	1768.6	1241.0	757.5	538.2	485.4	464.2	461.1	465.5	465.5
25°	2410.6	2147.1	1575.4	954.5	556.2	453.0	434.4	429.4	441.2	457.4	460.5
27.5°	2355.3	2059.5	1369.7	704.7	443.1	394.0	393.4	401.5	430.7	461.7	468.0
30°	2317.4	1976.2	1149.7	508.3	371.6	346.8	356.7	374.1	417.0	461.1	472.9
32.5°	2298.1	1914.7	920.4	393.4	318.2	304.5	321.3	342.4	384.7	425.7	441.2
35°	2313.0	1869.3	704.1	328.1	280.9	270.3	287.7	308.2	333.1	350.5	362.3
37.5°	2369.0	1851.3	531.3	293.9	255.4	245.5	259.1	271.0	280.9	285.9	291.5
40°	2489.5	1870.6	425.7	276.5	241.1	228.7	234.3	238.6	244.9	249.8	252.3
42.5°	2667.3	1928.4	381.6	269.7	233.7	215.6	214.4	216.3	224.3	233.7	235.5
45°	2915.8	2030.3	378.5	274.1	229.9	205.1	199.5	202.0	214.4	228.7	231.2
47.5°	3233.4	2185.6	403.3	287.1	233.0	199.5	190.2	193.3	208.8	228.1	231.2
50°	3618.1	2402.5	445.0	306.4	246.7	200.7	187.1	188.9	205.1	226.2	229.3
52.5°	4072.4	2710.1	490.3	325.0	261.0	208.8	189.5	185.2	200.1	218.8	222.5
55°	4577.6	3104.8	536.9	341.8	268.5	218.8	194.5	180.2	190.8	206.3	209.4
57.5°	5197.8	3656.6	617.7	358.0	273.4	225.6	199.5	175.2	179.0	190.2	192.6
60°	6037.4	4437.1	760.0	384.7	284.6	228.1	198.9	170.9	167.2	173.4	174.6
62.5°	7043.5	5284.8	878.7	418.2	303.3	229.9	195.1	167.8	157.2	157.2	158.5
65°	7640.7	5511.6	812.9	446.2	318.8	228.1	190.8	164.7	149.8	142.9	143.6
67.5°	7134.2	4847.3	696.6	451.8	318.2	219.4	183.9	159.1	142.3	131.7	131.1
69°	6499.7	4182.4	644.4	436.9	303.3	208.2	175.2	152.9	136.7	125.5	124.9
70°	5988.3	3776.5	610.3	420.7	287.1	200.1	168.4	147.3	132.4	121.8	120.6
72.5°	4353.9	2474.6	521.4	361.7	236.8	167.8	145.4	129.3	118.1	111.9	110.6
75°	2175.7	1180.1	423.2	293.3	181.5	134.2	119.3	108.1	102.5	101.3	100.7
77.5°	714.7	540.7	302.6	218.8	134.9	105.0	96.3	88.2	87.0	90.7	89.5
80°	392.8	314.5	192.0	144.8	92.0	77.1	75.8	71.5	73.3	79.5	78.3
82.5°	200.1	163.4	118.7	87.0	62.1	55.3	60.3	57.8	60.3	65.9	65.3
85°	98.8	89.5	75.2	52.8	41.0	35.4	42.9	44.7	46.0	50.3	50.3
87.5°	57.2	52.8	39.8	24.9	20.5	18.6	24.9	24.2	28.6	31.1	30.5
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)