

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: P324007

Luminaire Tested: **GAN-SA3C-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13927 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

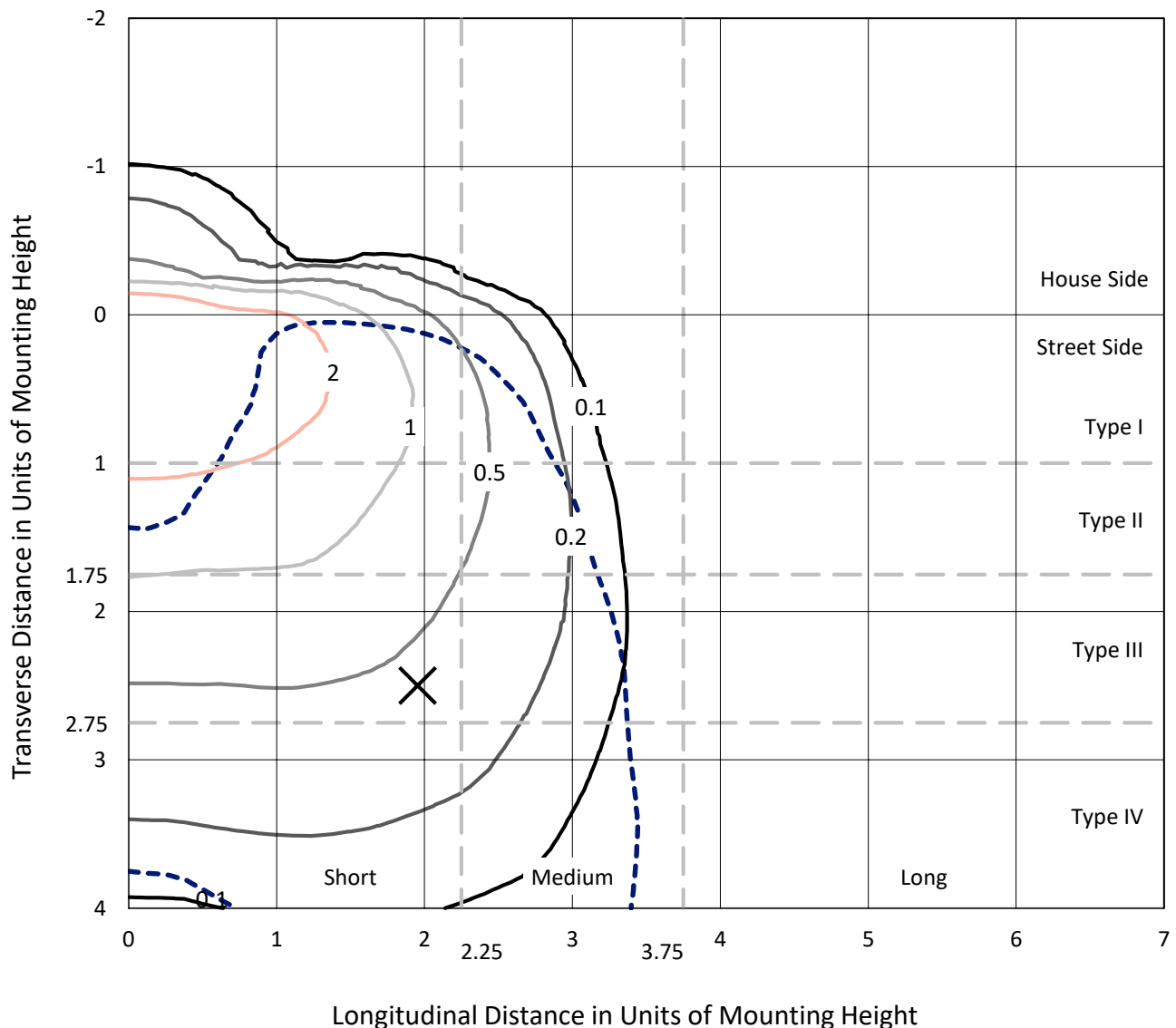
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

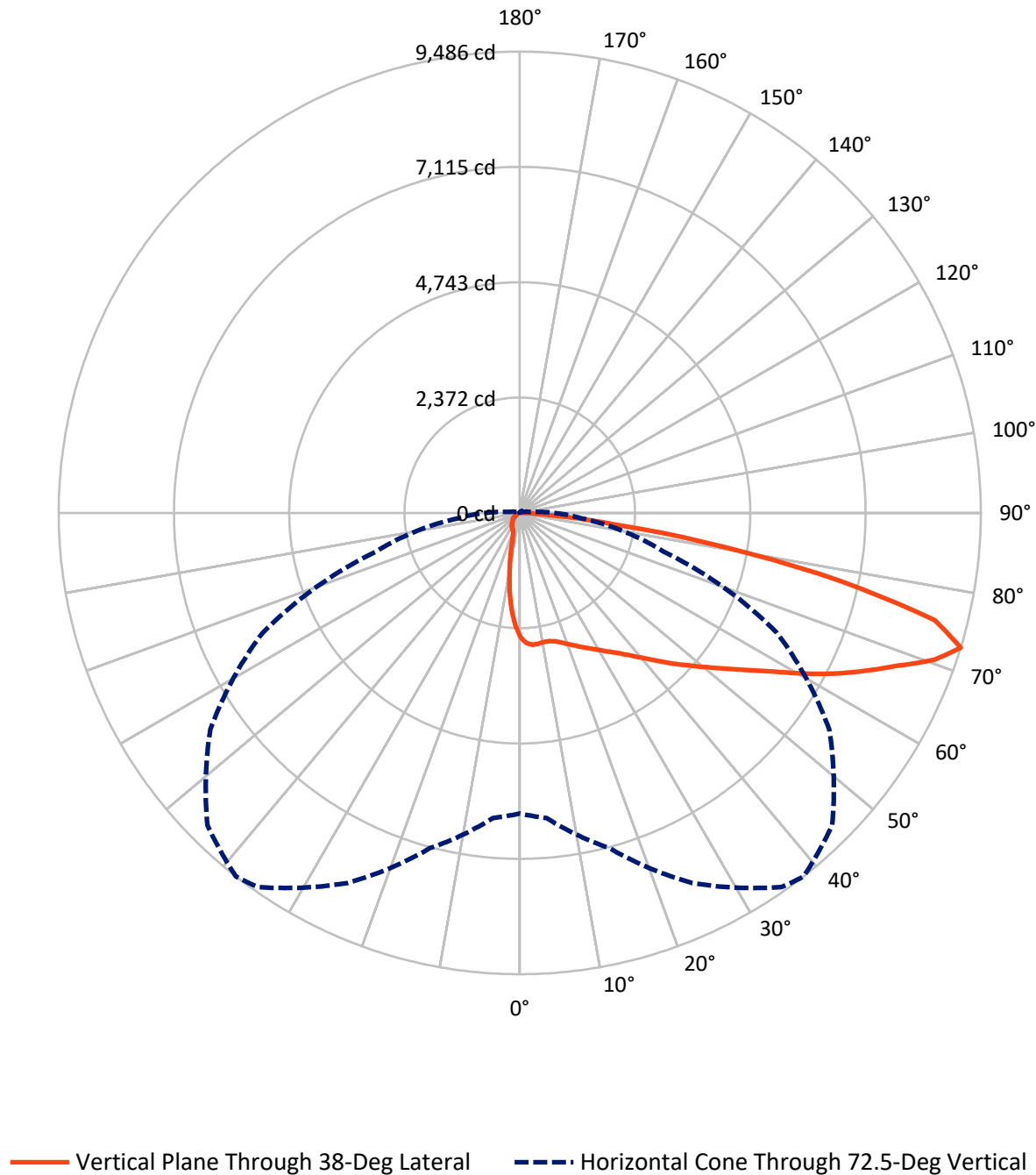
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1172.0	0.0	1172.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12755.0	0.0	12755.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	13927.0	0.0	13927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.6
10°-20°	533.7	3.8
20°-30°	848.8	6.1
30°-40°	1276.1	9.2
40°-50°	1946.8	14.0
50°-60°	2751.5	19.8
60°-70°	3451.3	24.8
70°-80°	2580.6	18.5
80°-90°	320.0	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°	13927.0	100.0
0°-180°	13927.0	100.0

Coefficient of Utilization



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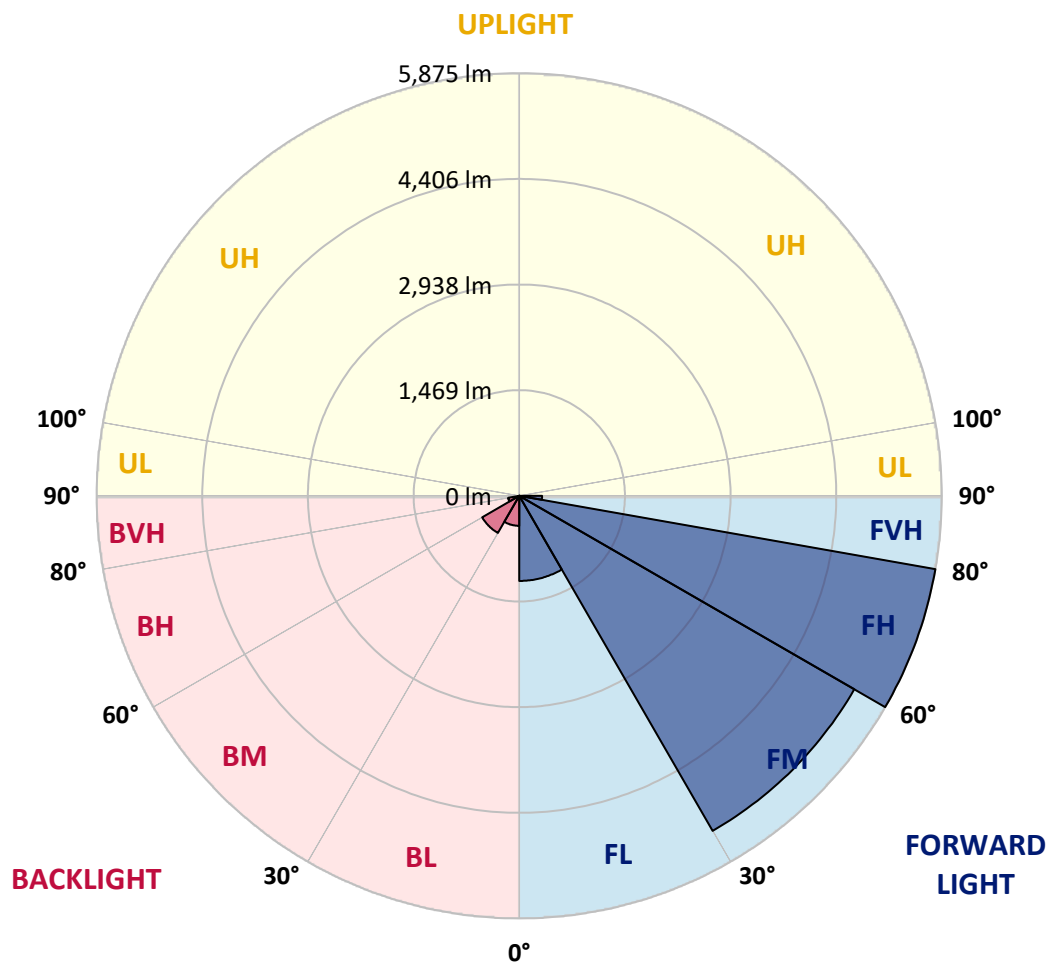
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1183.5	8.5			
FM	(30°-60°)	5379.2	38.6			
FH	(60°-80°)	5875.3	42.2			G3/7500
FVH	(80°-90°)	317.0	2.3			G3/500
BL	(0°-30°)	417.3	3.0	B1/500		
BM	(30°-60°)	595.2	4.3	B1/1000		
BH	(60°-80°)	156.6	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1
2.5°	2718.5	2719.0	2712.7	2702.3	2689.0	2682.0	2670.4	2651.9	2632.3	2597.0	2558.8
5°	2774.0	2774.0	2765.9	2752.0	2730.6	2724.2	2702.3	2672.8	2632.3	2575.0	2510.8
7.5°	2768.2	2769.4	2758.4	2743.9	2722.5	2716.7	2690.1	2657.1	2606.8	2537.4	2455.3
10°	2738.1	2741.0	2732.3	2725.4	2705.7	2699.4	2674.5	2641.5	2591.2	2517.2	2422.9
12.5°	2707.5	2710.4	2713.2	2719.6	2707.5	2705.1	2685.5	2657.7	2609.7	2532.8	2426.4
15°	2687.8	2693.6	2714.4	2739.3	2742.2	2739.9	2727.1	2701.1	2652.5	2572.7	2451.2
17.5°	2687.8	2697.1	2740.4	2787.9	2804.6	2806.4	2795.4	2758.9	2701.1	2615.5	2474.4
20°	2710.4	2723.1	2790.8	2857.8	2885.6	2885.6	2864.2	2813.3	2745.6	2654.3	2490.0
22.5°	2768.2	2785.0	2870.0	2947.5	2977.0	2970.6	2941.7	2867.7	2791.9	2698.2	2509.7
25°	2882.1	2894.9	2983.4	3061.4	3079.4	3064.9	3028.5	2933.6	2850.9	2757.8	2545.5
27.5°	3029.1	3030.8	3122.2	3188.1	3177.1	3167.3	3121.6	3016.3	2935.9	2842.8	2607.4
30°	3190.4	3190.4	3270.8	3321.1	3287.6	3279.5	3233.8	3116.4	3044.7	2958.5	2695.3
32.5°	3346.6	3353.5	3418.9	3450.7	3413.1	3405.0	3360.5	3243.1	3189.3	3134.9	2832.4
35°	3497.5	3502.8	3564.6	3582.0	3546.1	3548.4	3516.6	3417.2	3396.9	3390.0	3038.9
37.5°	3643.9	3645.0	3708.1	3719.1	3701.1	3720.8	3723.7	3635.8	3673.4	3729.5	3329.8
40°	3777.5	3778.6	3841.1	3869.5	3900.1	3925.6	3948.1	3901.3	4025.6	4155.8	3676.3
42.5°	3884.5	3896.6	3975.9	4029.7	4110.6	4159.2	4220.5	4218.2	4445.0	4640.5	4095.0
45°	3978.8	3999.6	4110.1	4204.3	4343.2	4420.7	4516.7	4591.9	4916.9	5180.1	4519.0
47.5°	4103.1	4122.8	4248.9	4403.3	4588.4	4690.2	4849.3	5011.8	5435.7	5709.9	4933.1
50°	4278.4	4269.7	4394.1	4615.6	4853.3	4986.9	5213.6	5457.1	5950.5	6171.5	5176.6
52.5°	4465.2	4461.7	4553.7	4846.4	5165.6	5321.8	5621.4	5917.6	6442.7	6489.6	5288.3
55°	4696.6	4671.7	4749.2	5109.5	5536.4	5704.1	6056.9	6373.3	6834.9	6668.9	5344.4
57.5°	4938.9	4897.8	4971.9	5402.8	5954.6	6153.0	6539.3	6817.5	7095.7	6791.5	5343.8
60°	5189.4	5140.8	5228.7	5769.5	6474.0	6703.6	7062.2	7117.7	7339.2	6853.4	5304.5
62.5°	5398.7	5369.8	5500.5	6161.6	7054.1	7279.7	7457.2	7390.7	7544.6	6901.4	5212.5
65°	5620.3	5622.0	5833.1	6619.1	7670.7	7822.8	7837.8	7744.7	7716.4	6891.6	4901.3
67.5°	5919.9	5947.6	6299.9	7240.3	8270.5	8387.9	8386.7	8128.2	7841.9	6500.6	4211.3
70°	6236.8	6302.2	6837.8	7951.2	8925.2	9044.3	8983.0	8372.3	7383.8	5256.4	2980.5
72.5°	6183.6	6297.0	7136.8	8399.4	9395.4	9486.2	9087.7	7772.5	5836.0	3055.1	1269.0
75°	4770.6	4901.9	6544.0	7955.2	8902.1	8820.5	7808.3	6048.3	3189.3	852.6	285.7
77.5°	2520.1	2590.0	4322.9	6060.4	6941.3	6770.7	5500.5	3355.3	972.3	211.1	128.4
80°	1319.9	1336.1	1883.8	3438.6	4284.2	4285.3	3259.8	1473.7	400.8	108.2	86.2
82.5°	706.8	720.7	995.4	1588.8	2244.7	2034.8	1248.2	810.9	233.1	61.3	82.7
85°	170.0	172.9	564.5	725.9	882.6	630.4	370.8	680.8	63.0	35.9	67.1
87.5°	65.4	66.5	209.4	314.1	225.0	145.8	173.5	253.9	8.1	13.9	10.4
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°	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1	2561.1
2.5°	2535.7	2520.6	2483.6	2436.8	2395.1	2365.1	2319.9	2290.4	2270.8	2270.2	2262.7
5°	2471.5	2440.8	2361.0	2266.1	2180.0	2102.5	2011.1	1938.8	1885.0	1876.3	1857.8
7.5°	2402.6	2352.3	2229.7	2081.6	1937.0	1790.1	1619.5	1513.7	1422.8	1379.5	1374.8
10°	2360.4	2289.9	2115.8	1901.8	1675.0	1436.2	1212.9	1058.5	946.8	915.0	891.3
12.5°	2351.8	2258.6	2027.8	1732.9	1409.0	1093.2	846.2	681.9	592.9	564.5	557.0
15°	2360.4	2244.2	1953.8	1565.7	1139.4	775.6	568.0	472.5	439.0	430.9	430.3
17.5°	2365.6	2226.8	1869.9	1380.0	878.0	554.1	435.0	407.2	402.0	401.4	402.6
20°	2365.1	2200.2	1769.9	1173.0	653.0	435.5	393.3	387.5	386.4	386.9	386.4
22.5°	2361.0	2169.0	1660.0	959.6	493.4	389.3	375.4	371.9	371.3	371.3	371.3
25°	2368.5	2144.1	1539.1	755.4	406.6	367.9	359.2	356.3	355.7	355.7	354.6
27.5°	2395.7	2130.2	1406.7	581.3	367.3	348.8	341.8	341.3	339.5	338.9	340.1
30°	2439.7	2130.2	1261.5	452.3	343.6	329.1	323.9	322.7	322.2	321.6	322.2
32.5°	2517.2	2146.4	1103.0	376.0	321.0	307.1	303.7	305.4	303.7	303.7	303.7
35°	2657.1	2195.0	937.0	327.9	297.3	285.7	282.3	284.6	283.4	283.4	282.8
37.5°	2861.3	2285.2	769.8	299.0	276.5	264.3	259.7	263.2	262.0	262.0	261.4
40°	3110.0	2416.5	610.8	277.1	256.2	243.5	239.5	241.2	238.3	238.3	239.5
42.5°	3417.2	2583.1	472.0	255.7	236.0	223.8	221.5	219.8	214.6	211.7	212.3
45°	3758.4	2756.6	367.9	234.8	216.9	207.1	203.6	199.0	190.3	184.5	185.1
47.5°	4063.2	2890.2	299.0	214.6	199.5	192.0	186.8	178.1	165.4	158.5	159.1
50°	4223.4	2910.5	254.5	194.3	183.4	175.8	168.3	155.0	140.0	132.5	131.9
52.5°	4264.5	2815.6	221.5	175.8	167.2	158.5	148.6	130.7	113.9	105.8	104.7
55°	4279.5	2671.0	192.0	158.5	149.8	140.0	127.2	107.0	91.4	83.3	82.7
57.5°	4229.8	2455.3	168.9	142.9	132.5	120.3	104.7	85.6	70.6	64.2	64.2
60°	4119.3	2163.2	151.0	126.1	114.5	100.6	84.4	66.5	52.6	47.4	47.4
62.5°	3899.0	1784.9	134.2	108.7	97.7	83.3	68.3	50.3	37.0	34.1	34.7
65°	3483.1	1354.0	117.4	93.1	83.3	68.8	53.2	35.9	24.9	24.9	26.0
67.5°	2840.5	940.5	100.1	79.2	71.7	56.1	40.5	24.9	17.4	19.7	22.0
70°	1880.4	527.5	85.6	65.4	61.3	44.5	30.1	16.8	13.9	18.5	22.6
72.5°	709.7	205.3	71.7	52.6	53.2	34.1	21.4	12.7	12.7	20.2	26.6
75°	197.8	100.6	51.5	38.8	41.6	24.9	15.6	11.0	12.1	23.1	31.2
77.5°	116.3	74.0	33.5	22.6	28.3	17.4	10.4	8.7	10.4	19.7	30.1
80°	93.7	39.3	19.7	11.6	15.6	9.8	6.9	5.2	2.9	7.5	15.6
82.5°	93.7	23.7	9.3	8.1	8.1	5.2	3.5	2.3	0.6	0.0	4.0
85°	63.0	9.8	5.8	5.2	4.0	1.7	1.2	0.6	0.0	0.0	0.0
87.5°	10.4	4.0	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
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)