

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: P323758

Luminaire Tested: **GAN-SA4B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323758
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-SA4B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 15645 lumens
Efficiency: N/A
Efficacy: 91.5 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): 171
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

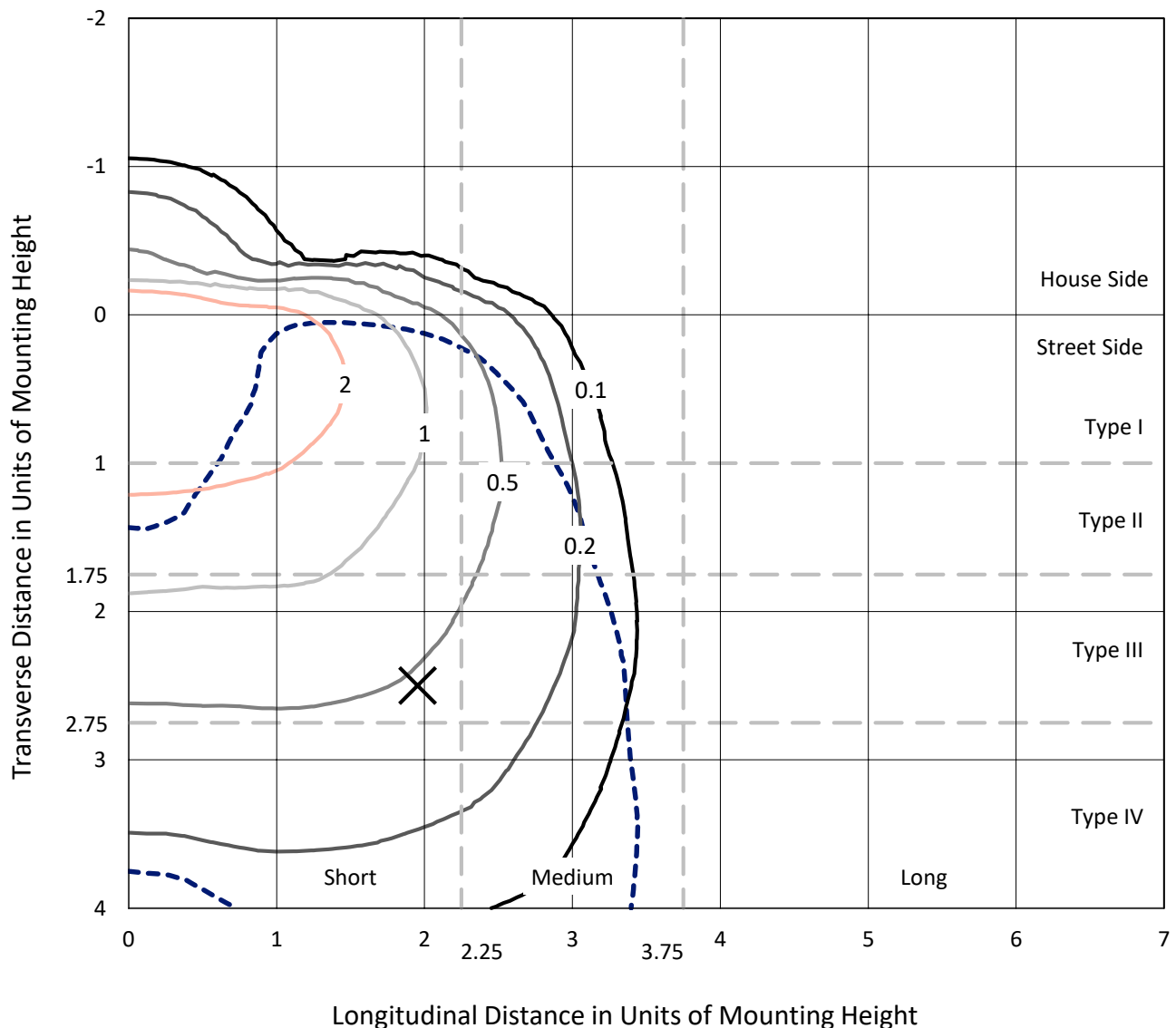


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Iso-Footcandle Lines of Horizontal Illumination

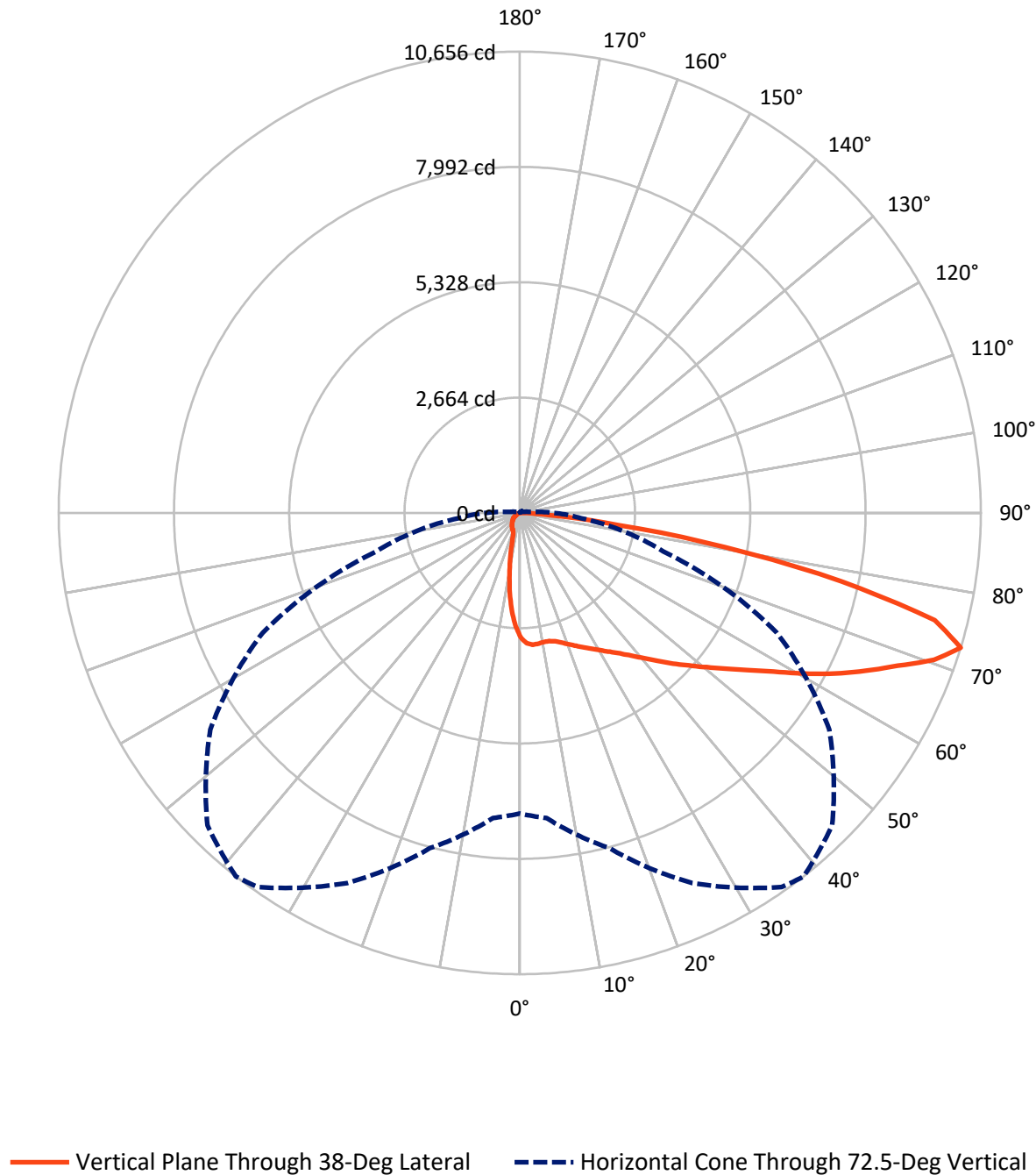
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1316.6	0.0	1316.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14328.4	0.0	14328.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	15645.0	0.0	15645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.2	1.6
10°-20°	599.5	3.8
20°-30°	953.5	6.1
30°-40°	1433.5	9.2
40°-50°	2187.0	14.0
50°-60°	3090.9	19.8
60°-70°	3877.0	24.8
70°-80°	2898.9	18.5
80°-90°	359.4	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°	15645.0	100.0
0°-180°	15645.0	100.0

Coefficient of Utilization



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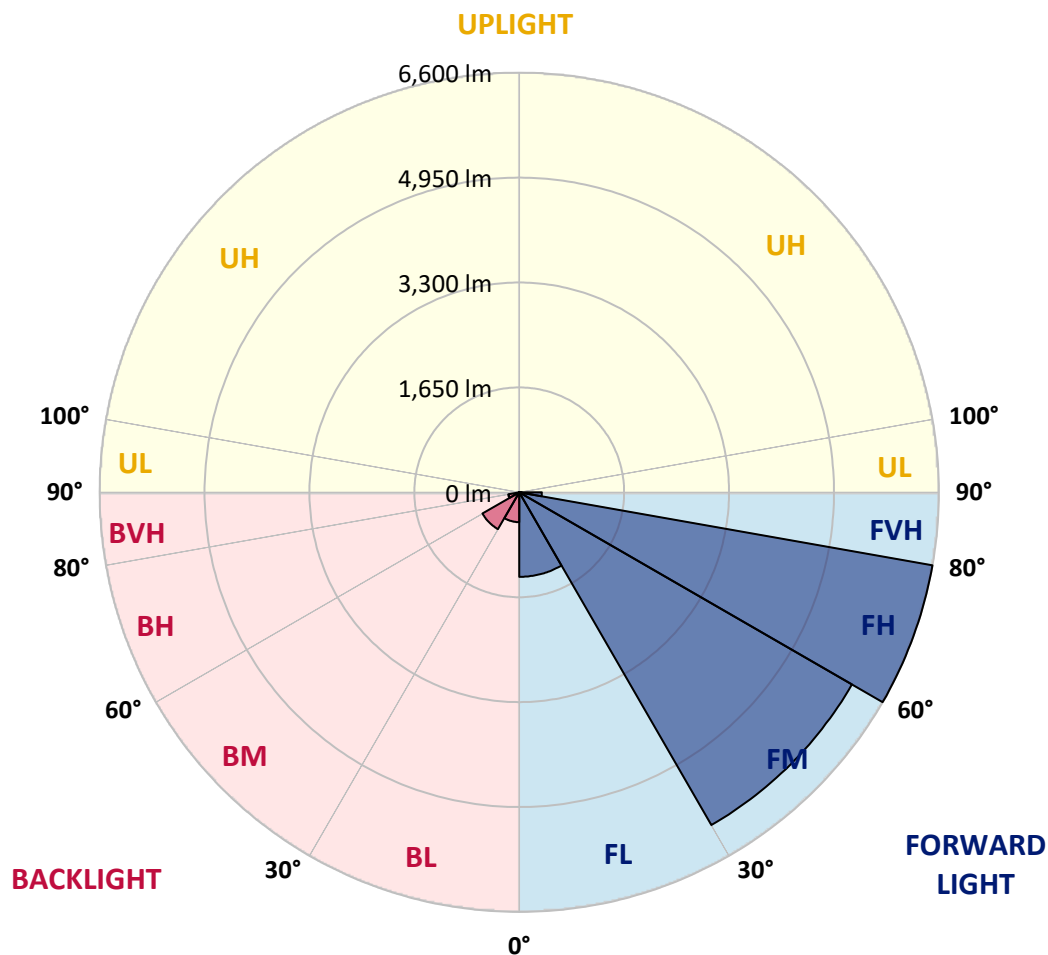
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.4	8.5			
FM	(30°-60°)	6042.8	38.6			
FH	(60°-80°)	6600.1	42.2			G3/7500
FVH	(80°-90°)	356.1	2.3			G3/500
BL	(0°-30°)	468.8	3.0	B1/500		
BM	(30°-60°)	668.6	4.3	B1/1000		
BH	(60°-80°)	175.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1
2.5°	3053.8	3054.4	3047.3	3035.6	3020.7	3012.9	2999.9	2979.1	2957.0	2917.3	2874.5
5°	3116.2	3116.2	3107.1	3091.5	3067.4	3060.3	3035.6	3002.5	2957.0	2892.7	2820.5
7.5°	3109.7	3111.0	3098.6	3082.4	3058.3	3051.8	3022.0	2984.9	2928.4	2850.4	2758.2
10°	3075.9	3079.1	3069.4	3061.6	3039.5	3032.4	3004.4	2967.4	2910.9	2827.7	2721.8
12.5°	3041.4	3044.7	3047.9	3055.1	3041.4	3038.9	3016.8	2985.6	2931.6	2845.2	2725.7
15°	3019.4	3025.9	3049.2	3077.2	3080.4	3077.8	3063.5	3034.3	2979.7	2890.1	2753.6
17.5°	3019.4	3029.8	3078.5	3131.8	3150.6	3152.6	3140.2	3099.3	3034.3	2938.1	2779.6
20°	3044.7	3059.0	3135.0	3210.4	3241.6	3241.6	3217.5	3160.4	3084.3	2981.7	2797.1
22.5°	3109.7	3128.5	3224.0	3311.1	3344.2	3337.1	3304.6	3221.4	3136.3	3031.1	2819.2
25°	3237.7	3252.0	3351.4	3439.1	3459.2	3443.0	3402.1	3295.5	3202.6	3098.0	2859.5
27.5°	3402.7	3404.7	3507.3	3581.4	3569.0	3558.0	3506.7	3388.4	3298.1	3193.5	2929.0
30°	3584.0	3584.0	3674.3	3730.8	3693.1	3684.0	3632.7	3500.8	3420.2	3323.4	3027.8
32.5°	3759.4	3767.2	3840.6	3876.4	3834.1	3825.0	3775.0	3643.1	3582.7	3521.6	3181.8
35°	3929.0	3934.8	4004.4	4023.9	3983.6	3986.2	3950.4	3838.7	3815.9	3808.1	3413.8
37.5°	4093.4	4094.7	4165.5	4177.9	4157.7	4179.8	4183.0	4084.3	4126.5	4189.5	3740.6
40°	4243.5	4244.8	4314.9	4346.8	4381.2	4409.8	4435.1	4382.5	4522.2	4668.4	4129.8
42.5°	4363.7	4377.3	4466.3	4526.8	4617.7	4672.3	4741.2	4738.6	4993.3	5212.9	4600.2
45°	4469.6	4493.0	4617.1	4723.0	4878.9	4966.0	5073.8	5158.3	5523.5	5819.1	5076.4
47.5°	4609.3	4631.4	4773.0	4946.5	5154.4	5268.8	5447.4	5630.0	6106.3	6414.3	5541.7
50°	4806.2	4796.4	4936.1	5185.0	5452.0	5602.1	5856.8	6130.3	6684.6	6932.8	5815.2
52.5°	5016.0	5012.1	5115.4	5444.2	5802.9	5978.3	6314.9	6647.5	7237.5	7290.1	5940.6
55°	5275.9	5248.0	5335.0	5739.8	6219.3	6407.8	6804.1	7159.5	7678.0	7491.5	6003.6
57.5°	5548.2	5502.0	5585.2	6069.3	6689.1	6912.0	7346.0	7658.5	7971.1	7629.3	6003.0
60°	5829.5	5774.9	5873.7	6481.2	7272.6	7530.5	7933.4	7995.7	8244.6	7698.8	5958.8
62.5°	6064.7	6032.2	6179.1	6921.7	7924.3	8177.7	8377.1	8302.4	8475.3	7752.7	5855.5
65°	6313.6	6315.5	6552.7	7435.7	8616.9	8787.8	8804.7	8700.1	8668.2	7741.7	5505.9
67.5°	6650.1	6681.3	7077.0	8133.5	9290.7	9422.6	9421.3	9130.8	8809.2	7302.5	4730.8
70°	7006.2	7079.6	7681.3	8932.0	10026.2	10160.0	10091.2	9405.0	8294.6	5904.9	3348.1
72.5°	6946.4	7073.8	8017.2	9435.6	10554.4	10656.4	10208.8	8731.3	6555.9	3431.9	1425.5
75°	5359.1	5506.6	7351.2	8936.6	10000.2	9908.6	8771.5	6794.4	3582.7	957.7	321.0
77.5°	2830.9	2909.6	4856.2	6808.0	7797.6	7605.9	6179.1	3769.2	1092.2	237.2	144.2
80°	1482.7	1500.9	2116.2	3862.7	4812.6	4813.9	3662.0	1655.5	450.3	121.5	96.8
82.5°	794.0	809.6	1118.2	1784.8	2521.7	2285.8	1402.1	910.9	261.8	68.9	92.9
85°	191.0	194.3	634.1	815.4	991.5	708.2	416.5	764.7	70.8	40.3	75.4
87.5°	73.4	74.7	235.2	352.8	252.8	163.7	194.9	285.2	9.1	15.6	11.7
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°	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1	2877.1
2.5°	2848.5	2831.6	2790.0	2737.4	2690.6	2656.8	2606.1	2573.0	2550.9	2550.2	2541.8
5°	2776.4	2741.9	2652.3	2545.7	2448.9	2361.8	2259.2	2177.9	2117.5	2107.8	2087.0
7.5°	2699.0	2642.5	2504.8	2338.4	2176.0	2011.0	1819.3	1700.4	1598.4	1549.6	1544.4
10°	2651.6	2572.3	2376.8	2136.4	1881.7	1613.3	1362.5	1189.0	1063.6	1027.9	1001.3
12.5°	2641.9	2537.2	2278.0	1946.6	1582.8	1228.0	950.6	766.0	666.0	634.1	625.7
15°	2651.6	2521.0	2194.8	1758.9	1280.0	871.3	638.0	530.8	493.2	484.1	483.4
17.5°	2657.5	2501.5	2100.6	1550.3	986.3	622.5	488.6	457.4	451.6	450.9	452.2
20°	2656.8	2471.6	1988.2	1317.7	733.6	489.3	441.8	435.3	434.0	434.7	434.0
22.5°	2652.3	2436.5	1864.8	1077.9	554.2	437.3	421.7	417.8	417.1	417.1	417.1
25°	2660.7	2408.6	1729.0	848.6	456.8	413.2	403.5	400.2	399.6	399.6	398.3
27.5°	2691.2	2393.0	1580.2	653.0	412.6	391.8	384.0	383.3	381.4	380.7	382.0
30°	2740.6	2393.0	1417.1	508.1	385.9	369.7	363.9	362.6	361.9	361.3	361.9
32.5°	2827.7	2411.2	1239.1	422.3	360.6	345.0	341.1	343.1	341.1	341.1	341.1
35°	2984.9	2465.8	1052.6	368.4	334.0	321.0	317.1	319.7	318.4	318.4	317.7
37.5°	3214.3	2567.1	864.8	335.9	310.6	296.9	291.7	295.6	294.3	294.3	293.7
40°	3493.7	2714.6	686.1	311.2	287.8	273.5	269.0	270.9	267.7	267.7	269.0
42.5°	3838.7	2901.8	530.2	287.2	265.1	251.5	248.9	246.9	241.1	237.8	238.5
45°	4222.0	3096.7	413.2	263.8	243.7	232.6	228.7	223.5	213.8	207.3	207.9
47.5°	4564.4	3246.8	335.9	241.1	224.2	215.7	209.9	200.1	185.8	178.0	178.7
50°	4744.4	3269.5	285.9	218.3	206.0	197.5	189.1	174.1	157.2	148.8	148.1
52.5°	4790.6	3163.0	248.9	197.5	187.8	178.0	167.0	146.8	128.0	118.9	117.6
55°	4807.5	3000.5	215.7	178.0	168.3	157.2	142.9	120.2	102.7	93.6	92.9
57.5°	4751.6	2758.2	189.7	160.5	148.8	135.1	117.6	96.2	79.3	72.1	72.1
60°	4627.5	2430.0	169.6	141.6	128.6	113.1	94.9	74.7	59.1	53.3	53.3
62.5°	4379.9	2005.1	150.7	122.2	109.8	93.6	76.7	56.5	41.6	38.3	39.0
65°	3912.8	1521.0	131.9	104.6	93.6	77.3	59.8	40.3	27.9	27.9	29.2
67.5°	3190.9	1056.5	112.4	89.0	80.6	63.0	45.5	27.9	19.5	22.1	24.7
70°	2112.3	592.6	96.2	73.4	68.9	50.0	33.8	18.8	15.6	20.8	25.3
72.5°	797.2	230.7	80.6	59.1	59.8	38.3	24.0	14.3	14.3	22.7	29.9
75°	222.2	113.1	57.8	43.5	46.8	27.9	17.5	12.3	13.6	26.0	35.1
77.5°	130.6	83.2	37.7	25.3	31.8	19.5	11.7	9.7	11.7	22.1	33.8
80°	105.3	44.2	22.1	13.0	17.5	11.0	7.8	5.8	3.2	8.4	17.5
82.5°	105.3	26.6	10.4	9.1	9.1	5.8	3.9	2.6	0.6	0.0	4.5
85°	70.8	11.0	6.5	5.8	4.5	1.9	1.3	0.6	0.0	0.0	0.0
87.5°	11.7	4.5	2.6	1.3	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)