

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: P193662

Luminaire Tested: **GAN-AF-04-LED-U-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13524 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
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: 28.75 FT



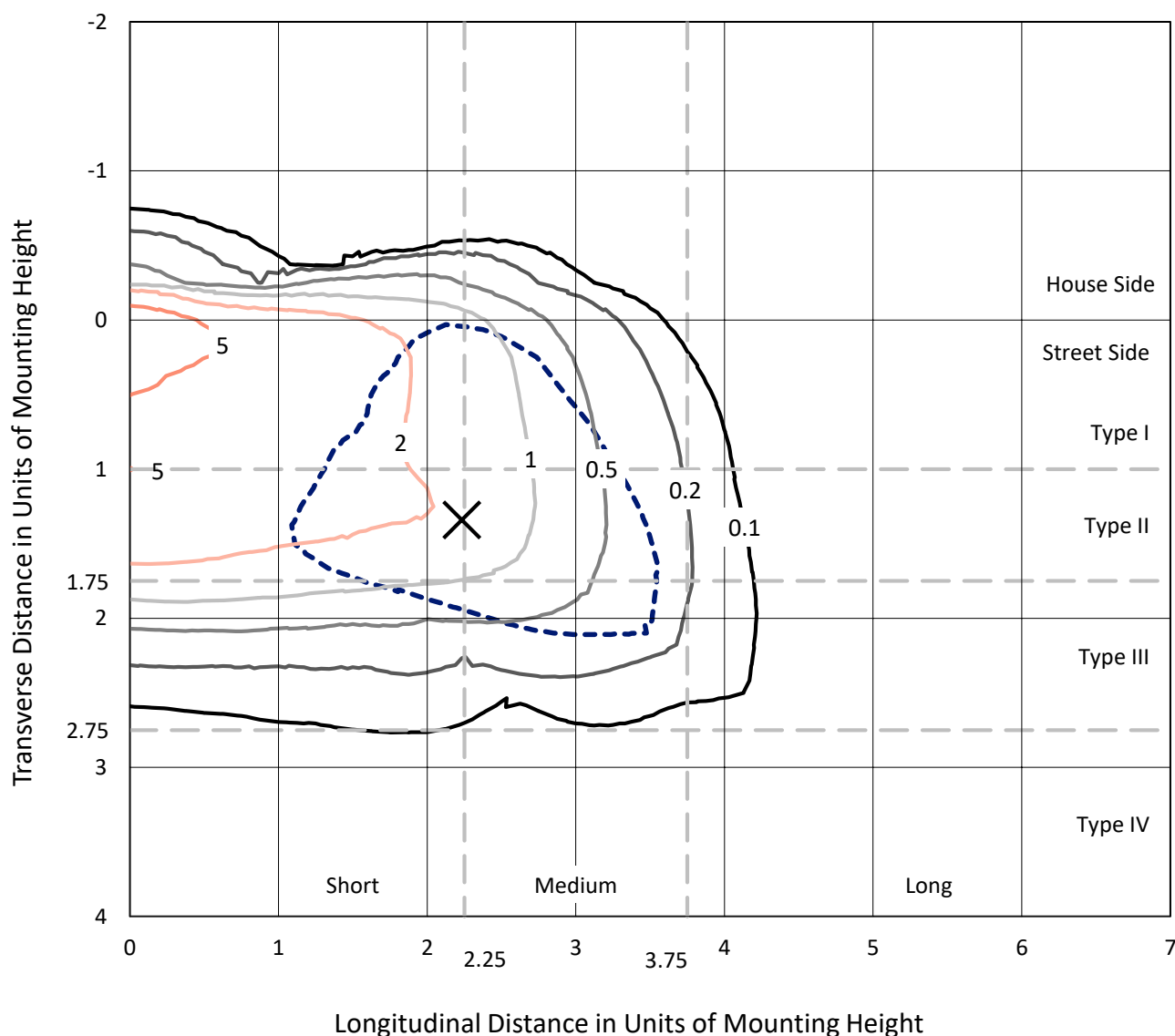
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

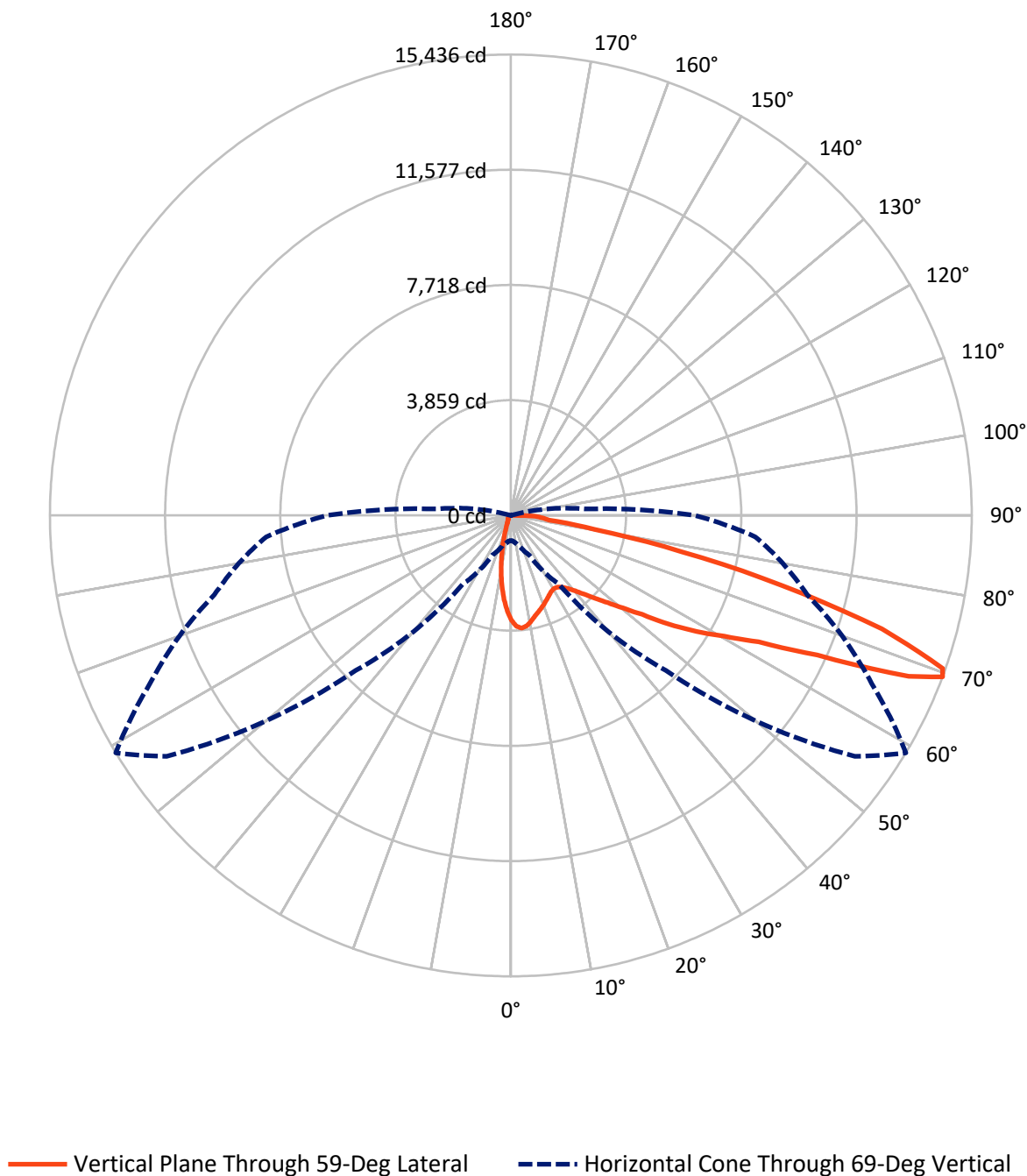


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.3	0.0	1101.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	12422.7	0.0	12422.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	13524.0	0.0	13524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	2.1
10°-20°	590.4	4.4
20°-30°	794.5	5.9
30°-40°	1153.5	8.5
40°-50°	1920.7	14.2
50°-60°	2996.2	22.2
60°-70°	3707.5	27.4
70°-80°	1878.9	13.9
80°-90°	196.6	1.5
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°	13524.0	100.0
0°-180°	13524.0	100.0

Coefficient of Utilization



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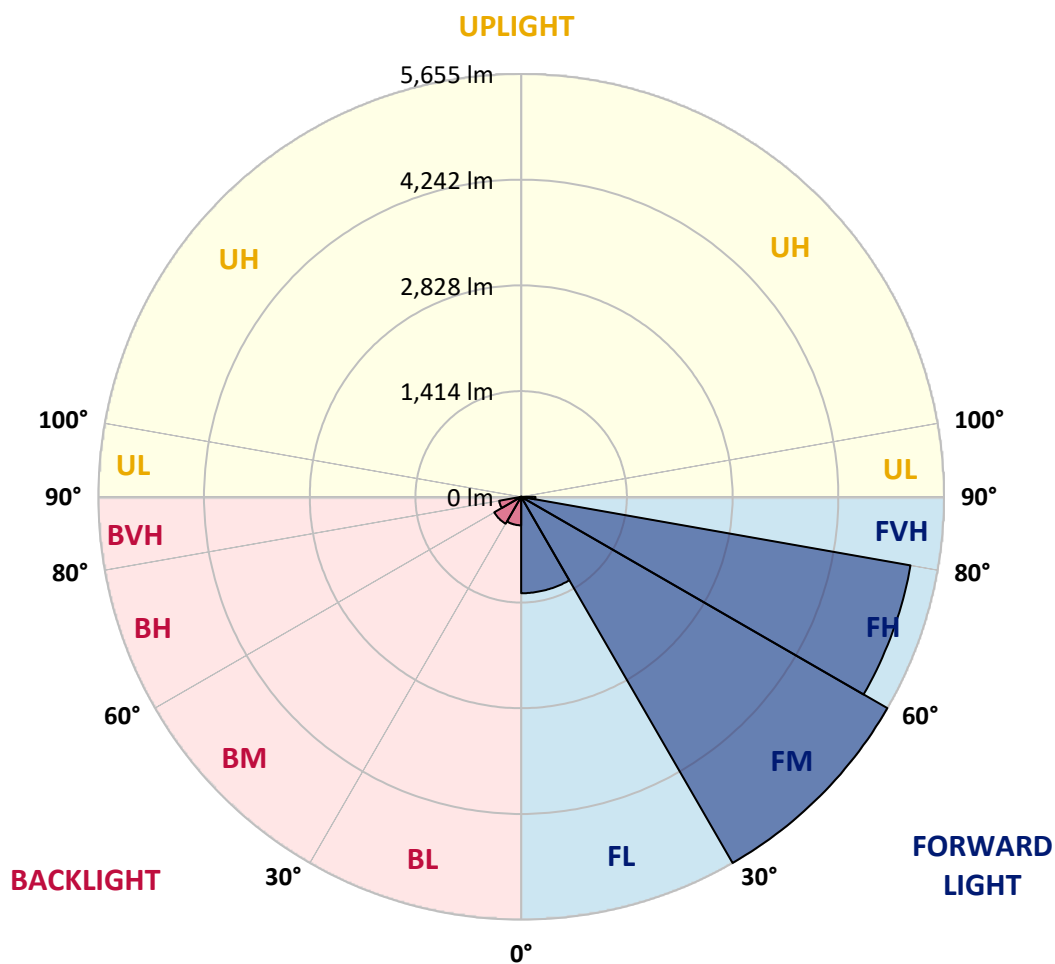
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.4	9.5			
FM	(30°-60°)	5655.3	41.8			
FH	(60°-80°)	5287.4	39.1			G3/7500
FVH	(80°-90°)	190.6	1.4			G2/225
BL	(0°-30°)	381.2	2.8	B1/500		
BM	(30°-60°)	415.0	3.1	B1/1000		
BH	(60°-80°)	299.1	2.2	B1/500		G1/500
BVH	(80°-90°)	6.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3858.1	3856.6	3839.8	3832.1	3818.4	3789.3	3744.2	3720.5	3682.2	3615.7	3526.2
5°	3822.9	3841.3	3851.2	3852.0	3862.0	3851.2	3810.7	3790.8	3738.1	3631.0	3470.4
7.5°	3584.3	3591.2	3619.5	3644.0	3691.4	3736.5	3751.1	3742.7	3711.3	3596.6	3383.2
10°	3328.9	3335.8	3369.5	3401.6	3465.8	3535.4	3608.8	3624.1	3637.1	3547.6	3299.1
12.5°	3108.7	3115.6	3150.0	3192.0	3267.0	3352.6	3466.6	3491.8	3549.2	3501.0	3231.8
15°	2919.0	2922.1	2955.7	3007.7	3097.2	3207.3	3336.6	3377.1	3465.0	3468.1	3172.9
17.5°	2757.7	2765.3	2786.0	2835.7	2933.6	3069.7	3220.3	3278.5	3381.7	3440.6	3115.6
20°	2659.0	2666.7	2665.9	2693.4	2781.4	2926.7	3104.1	3173.7	3299.1	3412.3	3064.3
22.5°	2639.9	2639.9	2620.0	2616.2	2668.2	2789.8	2983.3	3068.1	3224.9	3400.0	3028.4
25°	2708.0	2704.9	2655.2	2614.7	2616.9	2689.6	2866.3	2967.2	3162.2	3408.5	3009.3
27.5°	2851.7	2847.9	2785.2	2708.0	2646.0	2645.2	2777.5	2886.1	3112.5	3448.2	3016.9
30°	3050.6	3049.0	2981.0	2883.8	2771.4	2668.2	2747.0	2845.6	3080.4	3520.1	3034.5
32.5°	3267.7	3265.5	3214.2	3111.7	2969.5	2771.4	2779.1	2861.7	3089.6	3615.7	3077.3
35°	3497.9	3494.1	3471.9	3382.5	3225.7	2961.8	2884.6	2948.8	3147.7	3758.7	3161.4
37.5°	3747.2	3751.1	3767.1	3681.5	3517.1	3228.7	3061.3	3104.9	3264.7	3953.0	3298.3
40°	4115.1	4114.3	4119.7	4007.3	3848.9	3555.3	3308.3	3322.0	3460.5	4210.7	3506.3
42.5°	4782.7	4736.1	4594.6	4365.2	4206.1	3928.5	3619.5	3605.0	3699.8	4529.6	3797.7
45°	5679.7	5580.3	5213.3	4773.5	4570.1	4349.1	4002.7	3956.0	4016.4	4912.7	4157.1
47.5°	6451.4	6348.1	5828.9	5198.7	4956.3	4748.3	4451.6	4367.4	4387.3	5341.7	4612.9
50°	6713.7	6663.2	6209.7	5568.9	5330.3	5250.7	4972.4	4869.9	4841.6	5838.0	5141.4
52.5°	6622.7	6618.8	6316.8	5809.0	5672.9	5770.7	5627.7	5509.2	5405.2	6361.1	5679.0
55°	6476.6	6495.7	6360.4	6019.3	6014.7	6245.7	6524.0	6425.4	6124.1	6929.3	6142.4
57.5°	6073.6	6155.4	6335.9	6417.0	6605.1	6841.4	7270.4	7328.5	6972.2	7364.5	6527.1
60°	4928.0	5107.7	5698.1	6474.3	7366.0	7954.9	8171.3	8221.0	7668.1	7726.2	7046.3
62.5°	3497.9	3681.5	4430.2	5743.2	7377.5	9417.8	9513.4	9318.4	8434.3	8262.3	7941.9
65°	1856.8	1998.3	2610.1	4145.7	6396.3	9757.4	11860.4	11279.2	9786.4	9316.9	9098.9
67.5°	949.8	992.6	1235.8	2028.9	4397.3	8666.8	13964.2	14373.3	12116.6	10363.0	9043.1
69°	840.5	865.7	1027.0	1466.8	2815.8	7340.8	14066.7	15435.6	13336.3	10275.8	8217.9
70°	813.7	835.9	982.7	1327.6	2200.9	6156.2	13674.4	15342.3	13648.4	9943.9	7601.5
72.5°	690.6	709.7	874.9	1173.1	1788.7	3055.9	11107.9	13000.6	12247.4	8283.7	5502.3
75°	461.9	524.6	839.7	1099.7	1664.1	1736.0	7323.2	9394.9	8727.2	5587.2	2866.3
77.5°	110.9	119.3	237.1	874.9	1521.8	1528.0	3766.4	5840.3	4763.6	1991.4	677.6
80°	59.6	57.4	66.5	173.6	1417.1	1433.9	1695.4	2834.9	1700.8	330.4	223.3
82.5°	42.1	39.8	42.8	72.7	445.8	1306.2	1226.6	1283.2	705.1	126.9	100.2
85°	15.3	14.5	23.7	65.8	139.9	751.0	1260.3	1058.4	571.3	58.1	73.4
87.5°	5.4	4.6	9.2	35.9	42.8	319.7	777.7	799.9	224.8	35.2	34.4
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°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3488.8	3441.3	3354.2	3264.7	3182.1	3082.7	3033.0	2984.0	2963.4	2955.7	2919.8
5°	3387.8	3307.5	3122.4	2936.6	2765.3	2583.3	2463.2	2366.9	2310.3	2282.8	2239.2
7.5°	3258.6	3127.0	2846.4	2559.6	2292.7	2029.6	1834.6	1684.7	1581.5	1531.8	1486.7
10°	3133.2	2958.0	2558.8	2168.0	1805.6	1456.8	1187.6	992.6	868.0	810.6	773.9
12.5°	3020.7	2793.6	2281.2	1786.4	1331.4	923.0	649.3	494.0	416.8	390.0	377.0
15°	2920.6	2642.2	2018.9	1424.0	901.6	527.7	354.8	302.1	289.8	289.8	288.3
17.5°	2825.7	2493.8	1765.8	1083.6	565.9	322.7	270.0	263.1	263.1	266.1	266.1
20°	2734.7	2352.3	1521.1	777.7	356.4	256.2	244.0	242.4	244.0	247.8	247.8
22.5°	2656.7	2223.9	1292.4	533.8	264.6	231.0	224.8	222.5	223.3	225.6	227.1
25°	2598.6	2115.3	1076.8	361.7	227.9	210.3	203.4	199.6	196.5	196.5	198.1
27.5°	2561.9	2023.5	868.0	263.1	205.0	191.2	180.5	174.4	167.5	163.7	165.2
30°	2535.1	1936.3	672.2	214.9	183.5	169.8	156.0	146.1	136.1	131.5	133.1
32.5°	2525.2	1866.0	502.4	189.7	164.4	149.1	132.3	119.3	108.6	104.8	105.5
35°	2551.9	1810.1	367.8	171.3	149.1	130.0	110.9	96.4	87.9	85.7	86.4
37.5°	2622.3	1780.3	275.3	156.0	135.4	113.9	92.5	78.8	73.4	73.4	74.2
40°	2755.4	1779.6	221.0	145.3	123.1	98.7	76.5	66.5	63.5	65.0	65.8
42.5°	2949.6	1820.1	192.7	135.4	112.4	84.1	63.5	56.6	55.8	57.4	58.1
45°	3215.0	1894.3	177.4	126.9	100.9	70.4	53.5	48.9	48.9	51.2	52.0
47.5°	3540.0	2002.9	164.4	118.5	89.5	58.9	45.9	42.8	43.6	45.9	46.6
50°	3931.5	2139.7	151.4	109.4	81.1	48.9	39.8	37.5	38.2	41.3	42.1
52.5°	4377.4	2324.1	140.7	100.9	70.4	40.5	33.6	32.1	33.6	36.7	37.5
55°	4759.8	2489.2	127.7	94.1	56.6	33.6	27.5	27.5	29.1	32.9	33.6
57.5°	5127.6	2662.1	116.2	81.1	44.4	26.8	22.9	23.7	26.0	29.8	30.6
60°	5667.5	2955.0	102.5	68.1	33.6	21.4	19.1	19.9	22.9	26.8	27.5
62.5°	6584.4	3400.8	88.7	56.6	26.0	16.8	15.3	16.8	20.6	25.2	26.0
65°	7411.9	3582.1	72.7	47.4	19.9	13.0	13.0	15.3	19.9	24.5	25.2
67.5°	6950.7	3015.4	56.6	37.5	15.3	9.9	10.7	14.5	19.1	24.5	25.2
69°	6147.0	2465.5	48.2	29.8	13.0	9.2	9.9	14.5	19.1	23.7	24.5
70°	5520.7	2081.6	42.8	25.2	11.5	9.2	9.9	13.8	19.1	23.7	24.5
72.5°	3697.5	1124.2	34.4	18.4	10.7	8.4	8.4	13.8	18.4	22.9	23.7
75°	1589.1	310.5	27.5	13.0	9.2	7.6	7.6	13.0	17.6	22.2	23.7
77.5°	290.6	78.8	22.2	11.5	9.2	7.6	6.9	12.2	16.8	21.4	22.2
80°	115.5	39.0	17.6	9.9	8.4	6.9	6.1	11.5	16.1	20.6	21.4
82.5°	69.6	22.2	14.5	9.2	8.4	6.1	5.4	9.9	15.3	19.9	20.6
85°	56.6	15.3	11.5	9.2	7.6	6.1	4.6	9.2	13.8	19.1	19.9
87.5°	27.5	10.7	10.7	8.4	7.6	6.1	4.6	8.4	13.0	18.4	19.1
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)