

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: P192813

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192813
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: GAN-AF-05-LED-U-SL2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18571.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

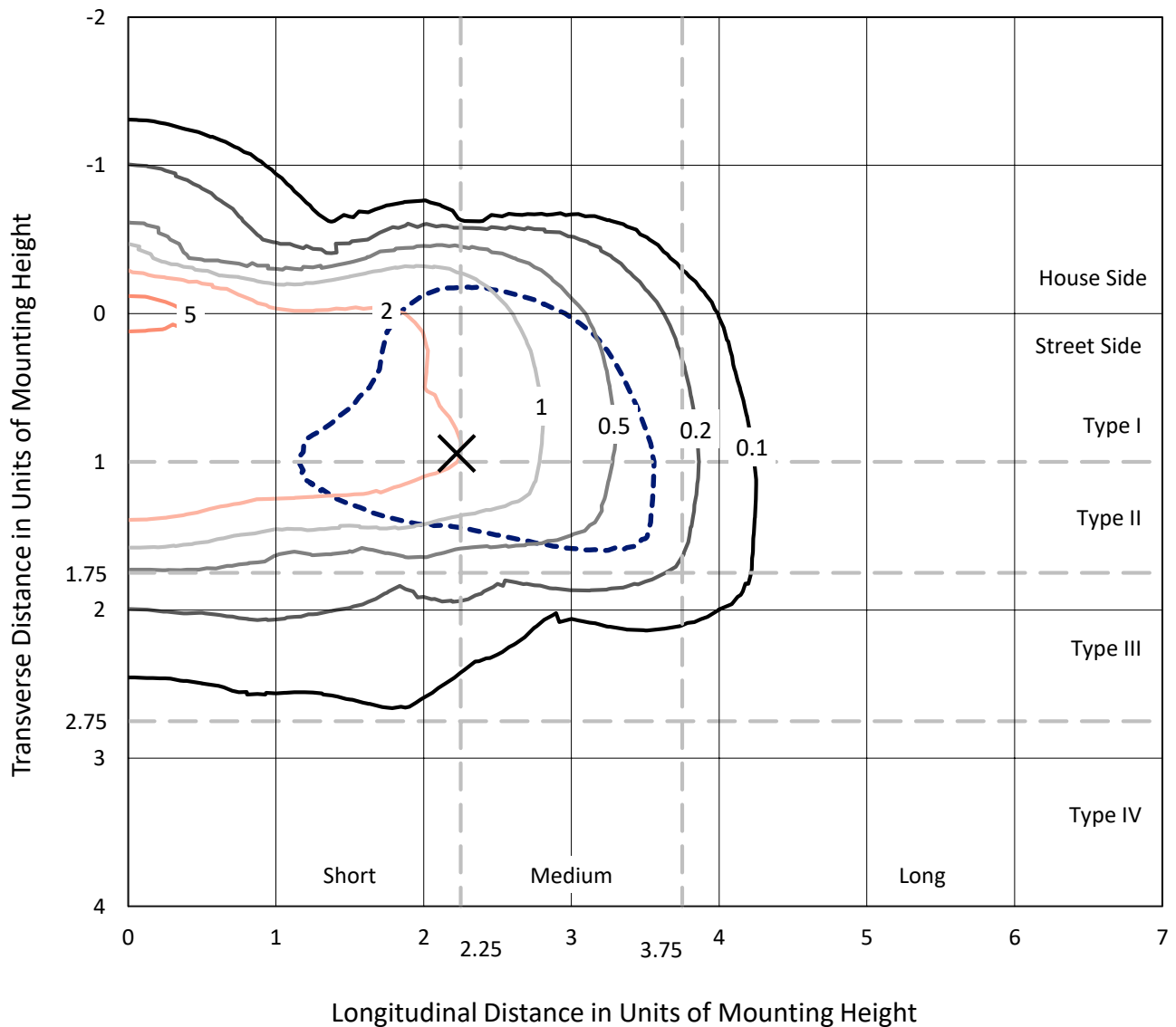
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

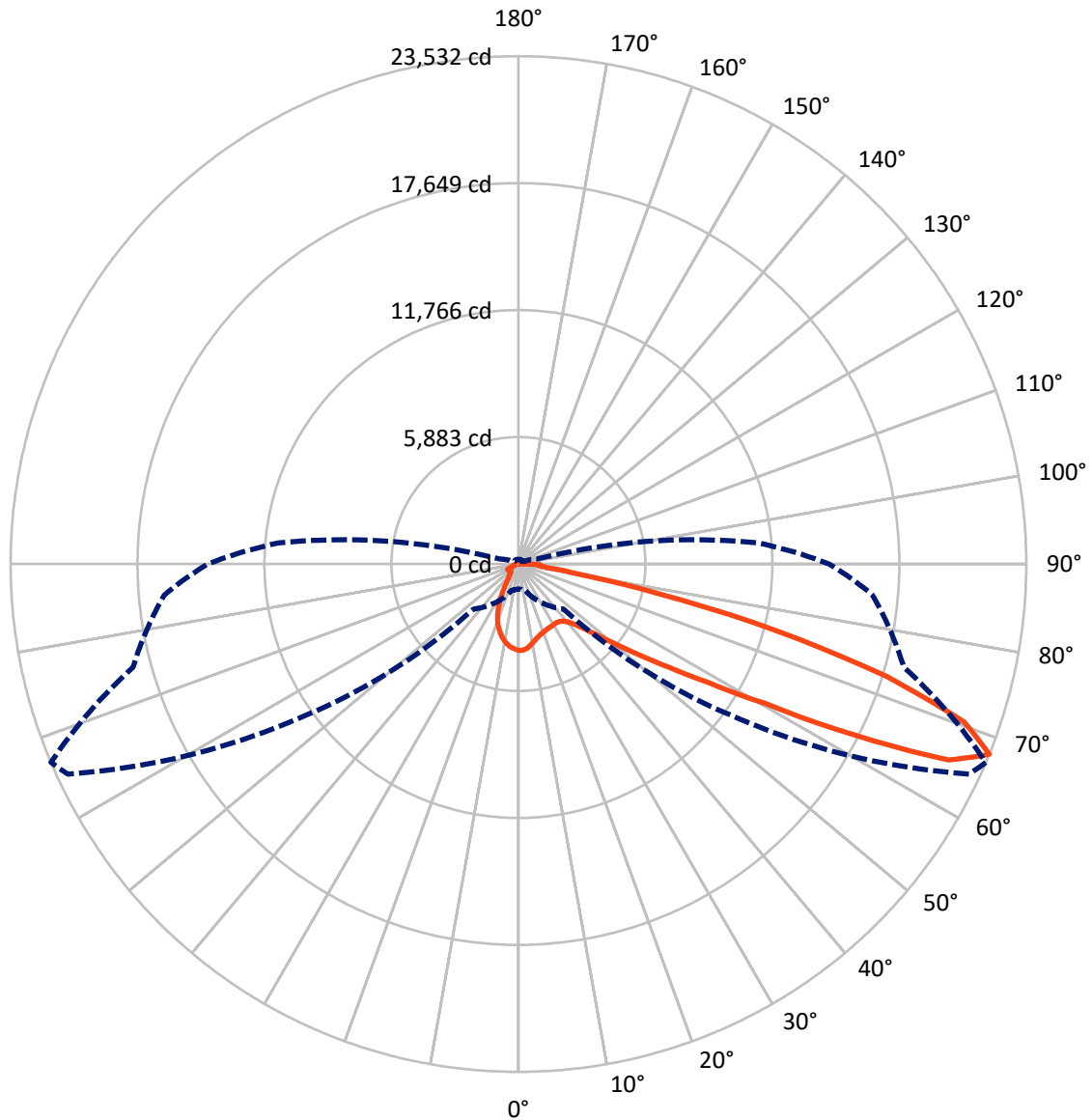
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	3077.1	0.0	3077.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15494.7	0.0	15494.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	18571.9	0.0	18571.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.8	1.8
10°-20°	790.8	4.3
20°-30°	1071.9	5.8
30°-40°	1523.9	8.2
40°-50°	2549.5	13.7
50°-60°	4033.2	21.7
60°-70°	5137.9	27.7
70°-80°	2691.3	14.5
80°-90°	431.6	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°	18571.9	100.0
0°-180°	18571.9	100.0

Coefficient of Utilization



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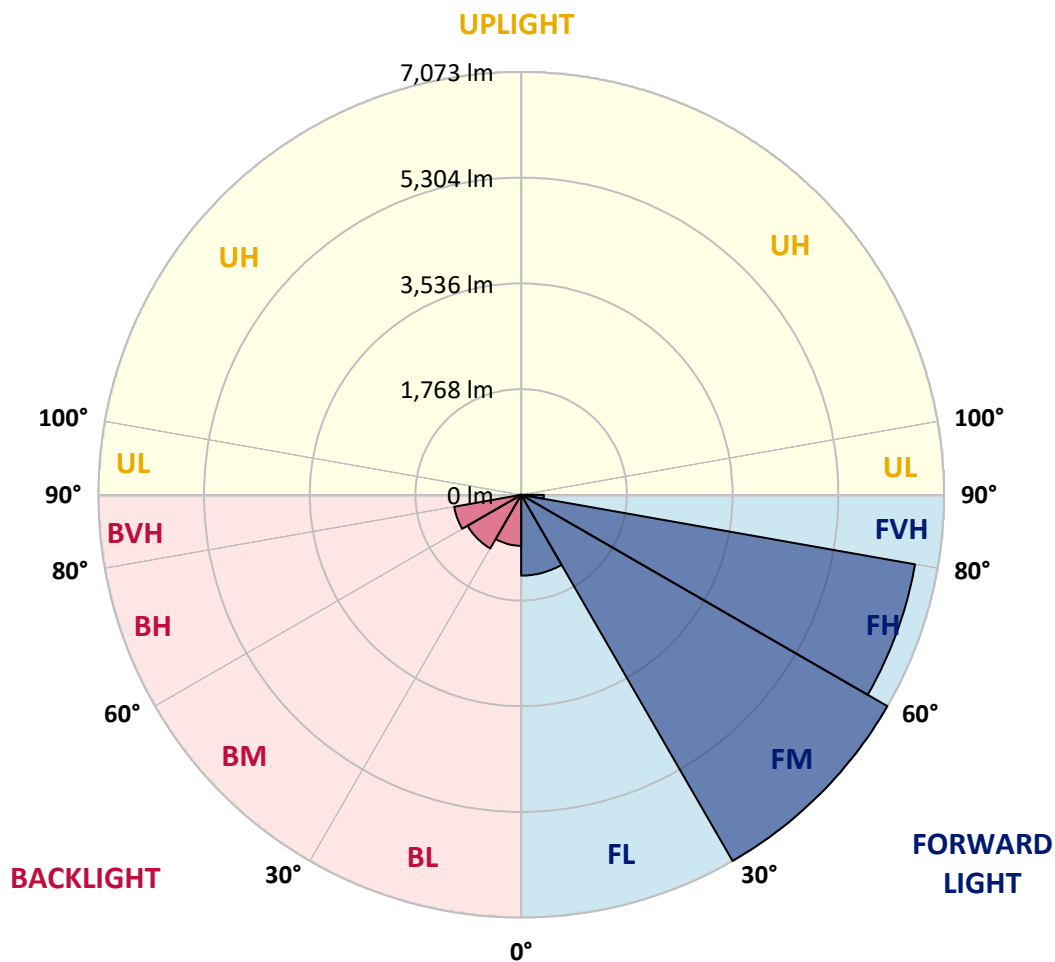
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1351.6	7.3			
FM	(30°-60°)	7072.6	38.1			
FH	(60°-80°)	6691.1	36.0			G3/7500
FVH	(80°-90°)	379.5	2.0			G3/500
BL	(0°-30°)	852.9	4.6	B2/1000		
BM	(30°-60°)	1034.0	5.6	B2/2500		
BH	(60°-80°)	1138.1	6.1	B3/2500		G3/2500
BVH	(80°-90°)	52.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	3841.0	3847.4	3867.7	3880.5	3938.1	3962.9	3980.4	3997.7	4000.4	4008.6	4000.4
5°	3438.1	3451.8	3489.4	3531.5	3643.2	3731.2	3823.6	3919.7	3937.2	3999.6	4016.9
7.5°	3125.8	3122.1	3153.2	3203.6	3318.1	3439.9	3602.1	3793.5	3830.9	3971.1	4038.9
10°	2897.8	2895.1	2927.9	2980.1	3089.2	3204.6	3387.7	3649.7	3702.8	3926.2	4060.0
12.5°	2729.2	2730.2	2763.0	2820.8	2931.7	3047.9	3233.8	3510.4	3578.2	3874.0	4081.9
15°	2617.6	2624.9	2651.4	2712.7	2820.8	2937.1	3119.4	3406.0	3482.1	3832.9	4106.6
17.5°	2579.9	2591.8	2601.0	2645.9	2738.4	2854.7	3033.2	3329.1	3409.7	3804.4	4128.7
20°	2614.8	2628.4	2611.1	2626.6	2685.3	2787.9	2965.6	3268.7	3351.1	3772.4	4131.4
22.5°	2764.0	2776.9	2725.6	2680.6	2677.1	2739.3	2909.7	3221.1	3306.1	3748.5	4132.3
25°	3026.9	3035.1	2949.0	2844.6	2743.0	2721.8	2870.2	3188.0	3278.8	3727.5	4114.9
27.5°	3349.3	3355.7	3256.8	3102.9	2898.6	2763.0	2856.5	3168.8	3263.1	3709.2	4085.6
30°	3741.2	3771.4	3638.7	3444.5	3146.8	2884.9	2884.0	3158.8	3245.8	3678.0	4027.9
32.5°	4142.3	4155.2	4063.6	3866.6	3481.1	3099.2	2960.9	3166.2	3241.1	3640.5	3954.6
35°	4549.0	4565.5	4506.0	4347.5	3938.1	3413.4	3111.1	3209.2	3269.6	3627.6	3903.3
37.5°	5075.6	5097.6	5015.2	4832.0	4494.1	3839.3	3361.2	3317.2	3356.6	3664.3	3887.8
40°	5908.0	5898.1	5657.2	5384.3	5102.2	4384.1	3718.3	3500.3	3523.3	3782.4	3935.4
42.5°	6877.1	6852.4	6437.4	6008.8	5770.7	5043.5	4190.8	3818.2	3813.5	4015.1	4103.0
45°	7650.2	7629.9	7256.2	6727.8	6537.3	5794.6	4801.8	4291.7	4257.8	4384.1	4412.6
47.5°	8068.6	8069.6	7854.3	7423.0	7418.3	6748.8	5586.7	4976.8	4918.1	4977.7	4947.4
50°	7922.1	7941.3	7918.4	7781.0	8222.5	8000.0	6611.5	5931.9	5813.8	5872.3	5756.1
52.5°	7213.2	7237.9	7373.5	7584.1	8560.5	9512.0	8117.2	7118.9	6981.4	6960.5	6831.3
55°	5956.7	5986.9	6263.5	6836.0	8279.2	10527.6	10492.8	8631.8	8413.0	8214.2	8159.3
57.5°	4105.8	4156.1	4601.2	5451.2	7369.9	10834.4	13321.9	10788.7	10343.6	9649.3	9662.2
60°	2314.3	2373.0	2897.8	3669.8	5534.4	10501.1	15474.2	14055.4	13115.8	11329.9	11425.1
62.5°	1471.7	1535.0	1933.4	2549.7	3320.8	8706.0	16356.1	18597.1	17403.8	13401.5	13494.9
65°	1191.5	1219.0	1406.7	2104.7	2411.5	5245.1	15686.6	22338.4	21893.3	16030.9	15595.0
67.5°	1163.2	1172.3	1269.4	1766.6	2312.5	2948.2	12512.3	23038.1	23531.7	18486.3	16469.6
70°	1149.4	1181.4	1430.5	1686.1	2214.4	2486.5	7519.1	21120.4	21899.7	19128.3	15305.6
72.5°	557.8	555.9	719.9	1524.9	2494.7	2579.1	3863.1	17088.8	17870.9	16572.2	12577.3
75°	449.7	411.3	392.9	558.7	2398.6	2663.3	2461.8	11758.6	12324.6	11111.0	7731.6
77.5°	426.7	381.0	349.0	349.8	1013.8	2824.5	2085.4	6508.0	6672.9	5018.9	2118.3
80°	353.6	311.4	288.5	325.1	490.9	2689.9	2254.8	2945.4	2702.6	1232.8	705.2
82.5°	245.4	223.4	217.1	272.9	392.9	1916.9	2622.1	1582.6	1327.1	617.4	435.1
85°	156.6	133.8	148.4	198.8	305.9	884.7	2700.8	1233.6	980.8	392.0	245.4
87.5°	72.3	58.6	73.3	110.0	199.6	305.0	2569.9	1385.6	1010.2	206.9	154.8
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°	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9	4005.9
2.5°	4007.7	3990.3	3976.6	3951.0	3922.5	3895.1	3870.4	3839.3	3830.1	3821.8	3834.7
5°	4020.5	4003.2	3952.8	3874.0	3787.0	3705.5	3624.0	3554.4	3511.4	3487.5	3501.3
7.5°	4039.8	4015.1	3910.7	3765.9	3609.4	3466.5	3319.1	3200.9	3113.9	3072.7	3084.6
10°	4057.3	4009.6	3839.3	3622.2	3393.1	3180.7	2948.2	2755.7	2612.9	2537.8	2556.1
12.5°	4064.6	3988.5	3739.4	3442.6	3128.5	2817.1	2474.6	2187.1	1981.9	1906.8	1891.2
15°	4071.9	3964.7	3629.5	3238.5	2808.9	2368.4	1888.4	1544.2	1373.7	1336.2	1327.9
17.5°	4073.7	3923.5	3504.9	3016.7	2434.3	1834.5	1291.3	1072.5	1073.4	1133.8	1141.1
20°	4054.5	3862.1	3353.8	2741.1	1985.6	1268.5	886.5	849.0	987.2	1138.4	1156.7
22.5°	4010.5	3780.6	3182.6	2419.6	1471.7	835.3	685.9	727.2	905.8	1090.7	1111.8
25°	3954.6	3681.7	2980.1	2046.9	974.5	597.1	575.1	625.5	746.5	870.0	881.9
27.5°	3878.6	3564.5	2753.0	1620.1	632.8	491.7	506.4	540.4	589.8	644.7	650.2
30°	3780.6	3424.3	2510.3	1181.4	478.1	442.4	463.4	481.8	502.8	533.9	536.7
32.5°	3668.0	3289.7	2261.2	816.0	424.0	416.8	433.2	442.4	458.9	478.1	479.8
35°	3573.7	3161.5	2002.9	577.0	401.1	397.4	408.5	412.1	427.7	448.7	450.5
37.5°	3519.6	3057.1	1736.4	465.2	385.5	380.1	386.4	386.4	408.5	439.7	444.1
40°	3523.3	2999.3	1470.0	420.3	372.8	365.5	366.3	366.3	394.8	428.7	431.3
42.5°	3623.0	3014.0	1233.6	402.9	362.6	354.4	349.8	352.6	376.4	398.4	400.2
45°	3857.5	3117.5	1012.0	392.0	352.6	349.8	339.8	338.8	348.0	358.1	358.1
47.5°	4242.2	3321.8	861.8	384.7	344.3	343.4	331.5	319.6	318.7	322.5	322.5
50°	4867.7	3673.4	761.1	376.4	338.8	331.5	317.8	299.5	293.1	295.8	295.8
52.5°	5805.6	4300.8	722.6	365.5	326.9	315.1	299.5	281.2	275.7	276.5	276.5
55°	7035.5	5264.3	717.1	352.6	314.1	294.9	282.1	268.3	261.9	263.8	263.8
57.5°	8538.4	6596.8	815.1	332.4	296.7	274.8	267.4	258.3	253.7	256.4	255.5
60°	10365.5	8340.7	1209.0	311.4	279.3	256.4	256.4	249.1	245.4	248.2	247.3
62.5°	12470.2	10343.6	1699.8	295.8	261.0	241.8	245.4	241.8	238.0	240.0	239.1
65°	14336.7	11648.6	1591.7	284.0	242.7	228.1	234.5	232.6	229.9	231.7	230.7
67.5°	14390.6	11165.1	893.8	271.1	225.3	214.2	223.4	222.6	220.7	222.6	221.7
70°	12842.9	9427.8	503.6	247.3	206.9	197.9	210.7	209.8	207.9	211.5	210.7
72.5°	10289.5	6841.4	368.2	218.0	188.7	180.4	195.0	194.2	194.2	199.6	196.8
75°	5921.0	3520.6	294.0	186.9	169.5	163.1	175.8	176.8	178.6	186.0	180.4
77.5°	1687.9	1097.2	240.0	158.4	145.7	142.9	155.7	157.6	158.4	166.7	159.4
80°	627.3	505.6	197.9	132.8	119.1	119.9	131.8	134.6	135.6	143.7	134.6
82.5°	400.2	333.3	160.3	102.6	93.4	92.6	107.2	110.8	110.8	111.8	106.2
85°	233.5	199.6	120.8	74.2	66.0	63.2	79.6	86.1	83.4	81.5	77.8
87.5°	156.6	137.3	74.2	41.2	35.7	33.9	46.7	51.3	49.5	46.7	43.9
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)