

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: P322381

Luminaire Tested: **GAN-SA7D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29400 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 448
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

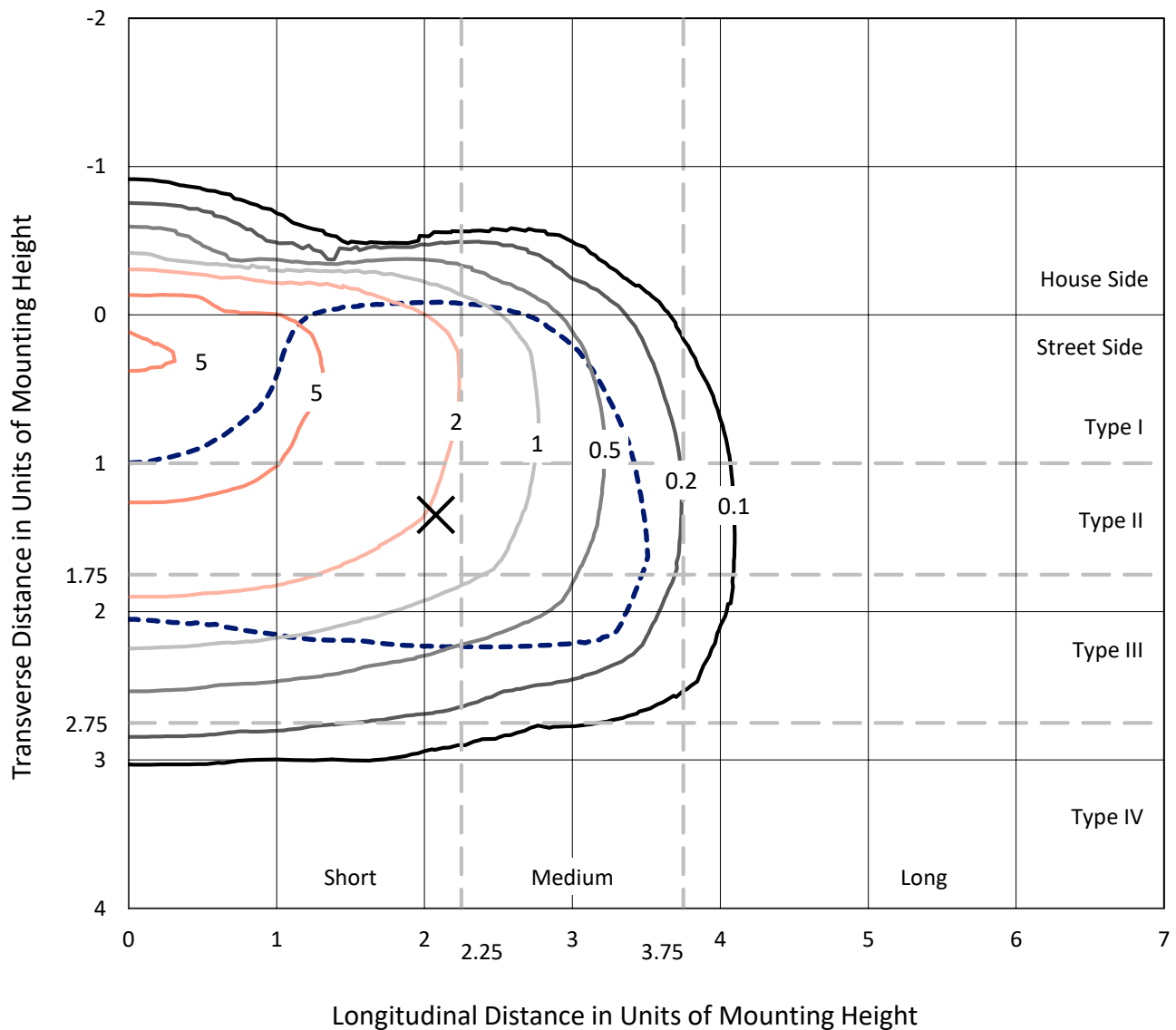


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Iso-Footcandle Lines of Horizontal Illumination

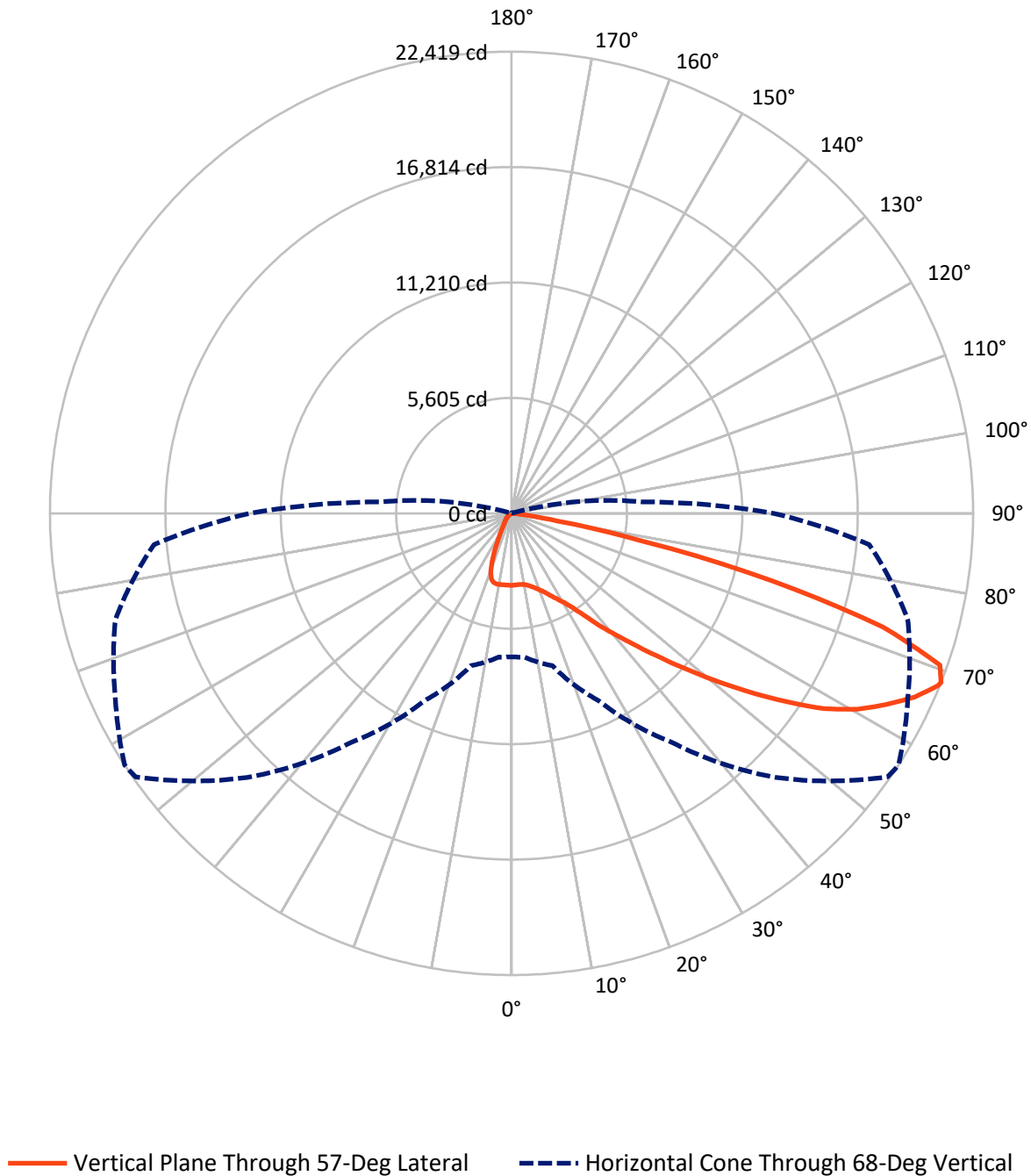
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.9	0.0	3223.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	26176.1	0.0	26176.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	29400.0	0.0	29400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.9	1.1
10°-20°	906.0	3.1
20°-30°	1562.9	5.3
30°-40°	2697.5	9.2
40°-50°	4614.1	15.7
50°-60°	7382.1	25.1
60°-70°	8529.2	29.0
70°-80°	3259.1	11.1
80°-90°	122.2	0.4
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°	29400.0	100.0
0°-180°	29400.0	100.0

Coefficient of Utilization



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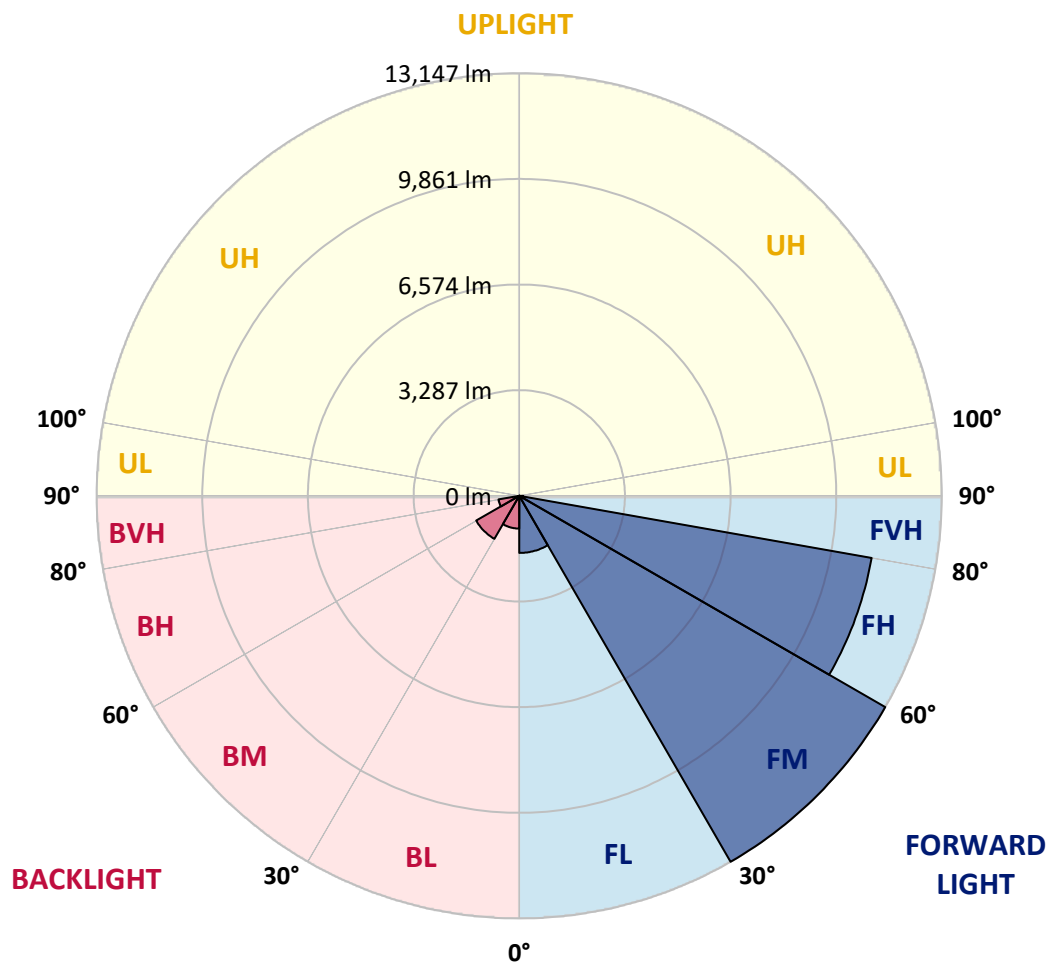
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.9	6.0			
FM	(30°-60°)	13147.4	44.7			
FH	(60°-80°)	11131.8	37.9			G4/12000
FVH	(80°-90°)	119.9	0.4			G2/225
BL	(0°-30°)	1018.8	3.5	B3/2500		
BM	(30°-60°)	1546.2	5.3	B2/2500		
BH	(60°-80°)	656.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5
2.5°	3411.5	3426.8	3437.9	3444.8	3453.2	3471.3	3476.8	3485.2	3489.3	3489.3	3499.1
5°	3276.6	3293.3	3316.9	3336.4	3375.3	3425.4	3461.5	3475.4	3500.4	3522.7	3535.2
7.5°	3151.5	3171.0	3198.8	3244.7	3311.4	3392.0	3467.1	3486.5	3535.2	3582.5	3606.1
10°	3070.9	3086.2	3122.3	3187.7	3275.2	3387.8	3493.5	3517.1	3600.5	3679.8	3724.3
12.5°	3043.1	3057.0	3094.5	3168.2	3276.6	3408.7	3554.7	3589.4	3711.8	3827.1	3889.7
15°	3083.4	3086.2	3126.5	3196.0	3303.0	3460.1	3656.1	3697.8	3852.2	4002.3	4080.1
17.5°	3239.1	3226.6	3247.4	3278.0	3362.8	3528.2	3763.2	3825.7	4031.5	4208.0	4281.7
20°	3628.3	3628.3	3581.1	3497.7	3499.1	3633.9	3907.8	3978.7	4230.3	4434.6	4501.4
22.5°	4294.2	4281.7	4187.2	3982.8	3795.2	3816.0	4084.3	4176.1	4469.4	4687.7	4709.9
25°	5095.0	5079.7	4933.7	4645.9	4320.6	4110.7	4323.4	4429.1	4754.4	4947.6	4901.7
27.5°	5943.0	5930.5	5785.9	5428.6	4965.7	4580.6	4608.4	4708.5	5044.9	5235.4	5089.4
30°	6764.6	6768.7	6625.5	6258.5	5734.4	5179.8	4969.9	5028.2	5327.1	5520.4	5311.8
32.5°	7545.8	7551.4	7427.7	7017.6	6528.2	5876.2	5470.3	5455.0	5655.2	5845.7	5606.6
35°	8242.3	8256.2	8171.4	7853.1	7334.5	6652.0	6119.5	6083.4	6120.9	6336.4	6058.4
37.5°	8913.8	8922.1	8858.2	8589.9	8156.1	7504.1	6939.7	6888.3	6807.7	6973.1	6654.7
40°	9649.2	9628.3	9554.6	9311.4	8938.8	8445.3	7821.1	7732.1	7591.7	7739.1	7438.8
42.5°	10333.1	10309.5	10322.0	10046.8	9732.6	9412.8	8848.4	8695.5	8613.5	8783.1	8400.8
45°	11188.1	11175.6	11217.3	10978.2	10723.8	10491.6	10025.9	9859.1	9822.9	10021.7	9564.4
47.5°	12031.9	12062.5	12191.8	12090.3	11987.4	11783.1	11272.9	11197.8	11220.1	11460.6	10791.9
50°	12735.3	12771.5	13126.0	13242.8	13391.5	13271.9	12760.4	12714.5	12802.1	13018.9	12112.5
52.5°	13244.1	13317.8	13758.5	14296.5	14838.7	14919.3	14409.1	14367.4	14485.6	14518.9	13132.9
55°	13597.2	13662.6	14161.7	15145.9	16249.7	16597.2	16280.3	16119.0	16096.8	15767.3	14206.1
57.5°	13659.8	13652.9	14370.2	15695.0	17356.3	18252.9	18052.7	17894.3	17438.3	16921.1	15436.4
60°	13306.7	13347.0	14179.7	15885.5	18051.3	19505.5	19520.8	19315.0	18604.6	18043.0	16629.2
62.5°	12219.6	12383.6	13224.7	15386.4	18043.0	20010.1	20596.7	20439.7	19590.3	18961.9	17838.7
65°	10456.9	10515.2	11317.4	13676.5	16823.8	19798.8	21565.7	21507.3	20478.6	19854.4	18460.1
67.5°	7636.2	7509.7	8352.1	10769.6	14243.7	18567.1	22260.8	22334.5	21163.9	20037.9	17798.3
68°	6968.9	7006.5	7662.6	10050.9	13568.1	18132.0	22306.7	22419.3	21232.1	19918.3	17436.9
70°	4153.8	4226.1	4811.4	6920.3	10322.0	15670.0	21811.8	22068.9	20826.1	18685.3	15081.9
72.5°	1060.7	1146.9	1700.2	3097.3	5895.7	11040.7	18412.8	18847.9	18081.9	15158.4	10181.6
75°	436.5	458.8	607.5	1020.4	2196.5	4974.0	12136.2	13067.6	12535.2	9075.0	4601.5
77.5°	301.7	317.0	390.6	565.8	950.9	1686.3	5949.9	6622.8	5966.6	3097.3	1003.7
80°	216.9	229.4	279.4	376.7	546.3	601.9	1939.3	2242.3	1780.8	679.8	248.8
82.5°	129.3	139.0	208.5	268.3	332.3	287.8	482.4	547.7	515.8	337.8	111.2
85°	63.9	75.1	140.4	191.8	179.3	120.9	147.4	164.0	203.0	205.7	59.8
87.5°	4.2	8.3	82.0	115.4	50.0	27.8	43.1	52.8	72.3	101.5	25.0
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°	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5	3493.5
2.5°	3503.2	3504.6	3494.9	3490.7	3493.5	3476.8	3469.9	3472.6	3472.6	3476.8	3469.9
5°	3538.0	3538.0	3521.3	3499.1	3486.5	3454.6	3433.7	3428.2	3424.0	3421.2	3415.6
7.5°	3613.0	3604.7	3575.5	3526.9	3485.2	3415.6	3362.8	3335.0	3321.1	3315.6	3311.4
10°	3734.0	3718.7	3670.0	3579.7	3483.8	3360.0	3244.7	3162.6	3094.5	3066.7	3050.0
12.5°	3896.6	3874.4	3792.4	3642.2	3474.0	3246.0	2995.8	2755.3	2531.5	2439.7	2393.9
15°	4084.3	4052.3	3923.1	3695.1	3417.0	2988.9	2445.3	2024.1	1714.1	1597.3	1547.3
17.5°	4274.8	4233.1	4037.1	3728.4	3246.0	2456.4	1715.5	1295.6	1088.5	1032.9	1013.4
20°	4466.6	4405.4	4135.8	3703.4	2859.6	1771.1	1131.6	946.7	886.9	870.2	864.7
22.5°	4648.7	4554.2	4224.7	3606.1	2264.6	1188.6	895.3	836.9	817.4	807.7	804.9
25°	4807.2	4675.1	4302.6	3305.8	1602.9	898.0	806.3	786.8	761.8	743.7	745.1
27.5°	4956.0	4796.1	4349.8	2810.9	1069.0	767.4	746.5	720.1	674.2	647.8	647.8
30°	5135.3	4957.3	4384.6	2163.1	786.8	678.4	661.7	621.4	558.8	524.1	524.1
32.5°	5405.0	5202.0	4362.4	1518.1	652.0	596.4	557.5	501.9	433.7	400.4	399.0
35°	5817.9	5580.1	4203.9	995.4	575.5	518.5	456.0	387.9	328.1	300.3	298.9
37.5°	6373.9	6086.2	3848.0	711.8	515.8	446.2	371.2	296.1	251.6	233.5	232.2
40°	7095.4	6674.2	3339.2	576.9	460.1	376.7	286.4	229.4	198.8	184.9	186.3
42.5°	7961.5	7303.9	2728.9	497.7	405.9	310.0	223.8	180.7	161.3	151.5	148.7
45°	8923.5	7925.4	2089.4	443.5	351.7	250.2	175.2	143.2	127.9	122.3	122.3
47.5°	9981.4	8530.1	1529.2	396.2	293.3	193.2	140.4	116.8	104.3	100.1	98.7
50°	10942.0	8949.9	1102.4	346.2	240.5	152.9	114.0	97.3	89.0	83.4	83.4
52.5°	11742.8	9082.0	811.9	291.9	194.6	122.3	94.5	83.4	75.1	70.9	70.9
55°	12447.6	9027.8	603.3	240.5	157.1	100.1	80.6	70.9	63.9	59.8	59.8
57.5°	13123.2	8852.6	450.4	196.0	126.5	80.6	68.1	59.8	52.8	50.0	50.0
60°	13675.1	8560.7	335.0	158.5	101.5	65.3	57.0	48.7	43.1	38.9	38.9
62.5°	14122.7	8238.1	246.1	130.7	80.6	51.4	44.5	40.3	32.0	27.8	27.8
65°	14125.5	7702.9	184.9	108.4	62.6	40.3	33.4	32.0	20.9	16.7	15.3
67.5°	13103.7	6640.8	141.8	93.1	48.7	30.6	25.0	26.4	11.1	7.0	5.6
68°	12732.6	6371.1	133.5	91.8	45.9	29.2	23.6	26.4	9.7	5.6	4.2
70°	10734.9	5068.6	107.0	89.0	40.3	22.2	19.5	26.4	8.3	4.2	2.8
72.5°	6866.0	2941.6	79.2	70.9	30.6	16.7	12.5	23.6	8.3	2.8	1.4
75°	2922.1	912.0	54.2	50.0	18.1	12.5	8.3	15.3	5.6	1.4	0.0
77.5°	615.8	205.7	32.0	30.6	12.5	8.3	5.6	4.2	1.4	0.0	0.0
80°	158.5	59.8	16.7	15.3	7.0	4.2	2.8	0.0	0.0	0.0	0.0
82.5°	50.0	23.6	9.7	7.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.0	13.9	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	4.2	1.4	0.0	0.0	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)