

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: P323021

Luminaire Tested: **GAN-SA7D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29241 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

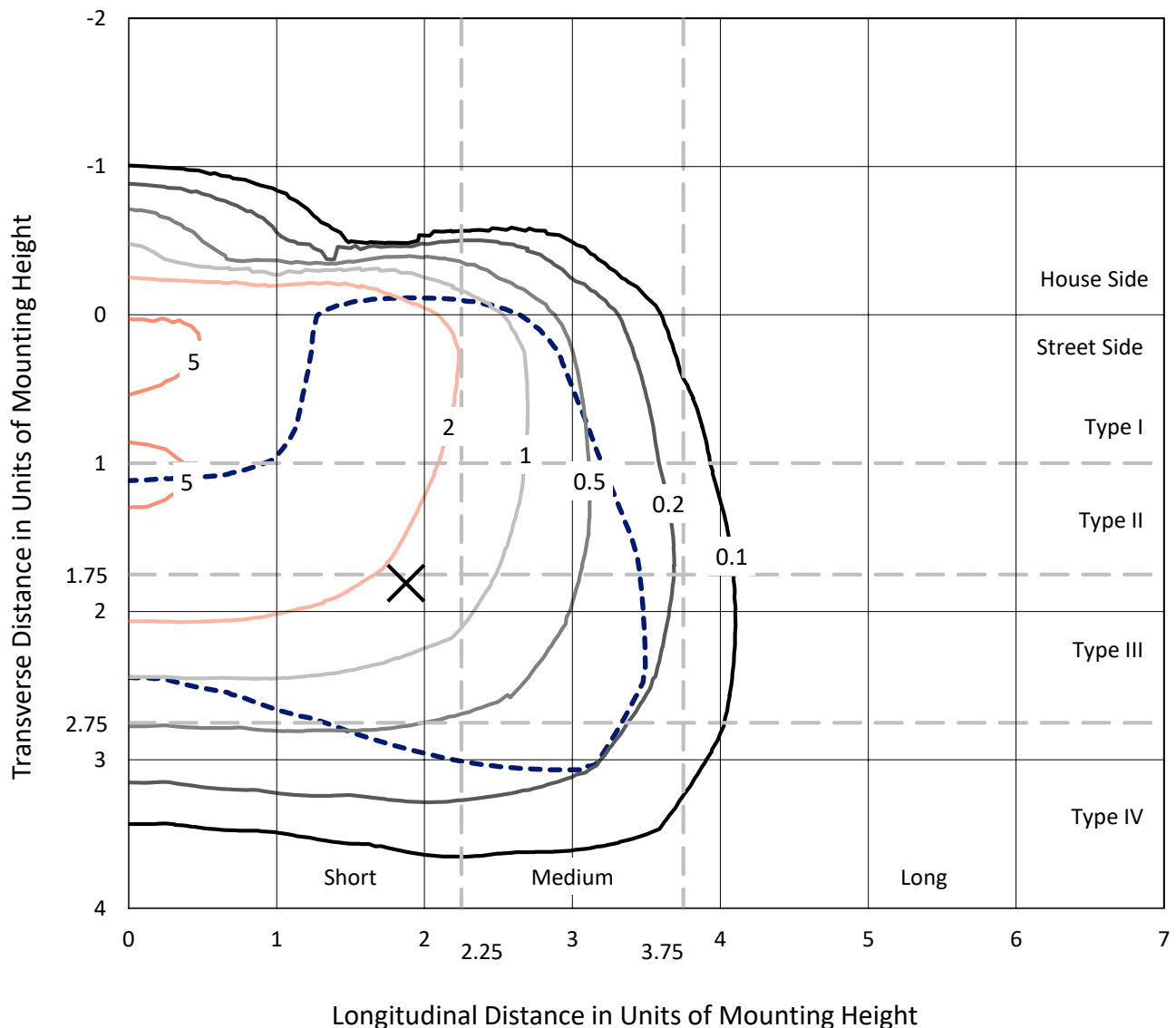
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

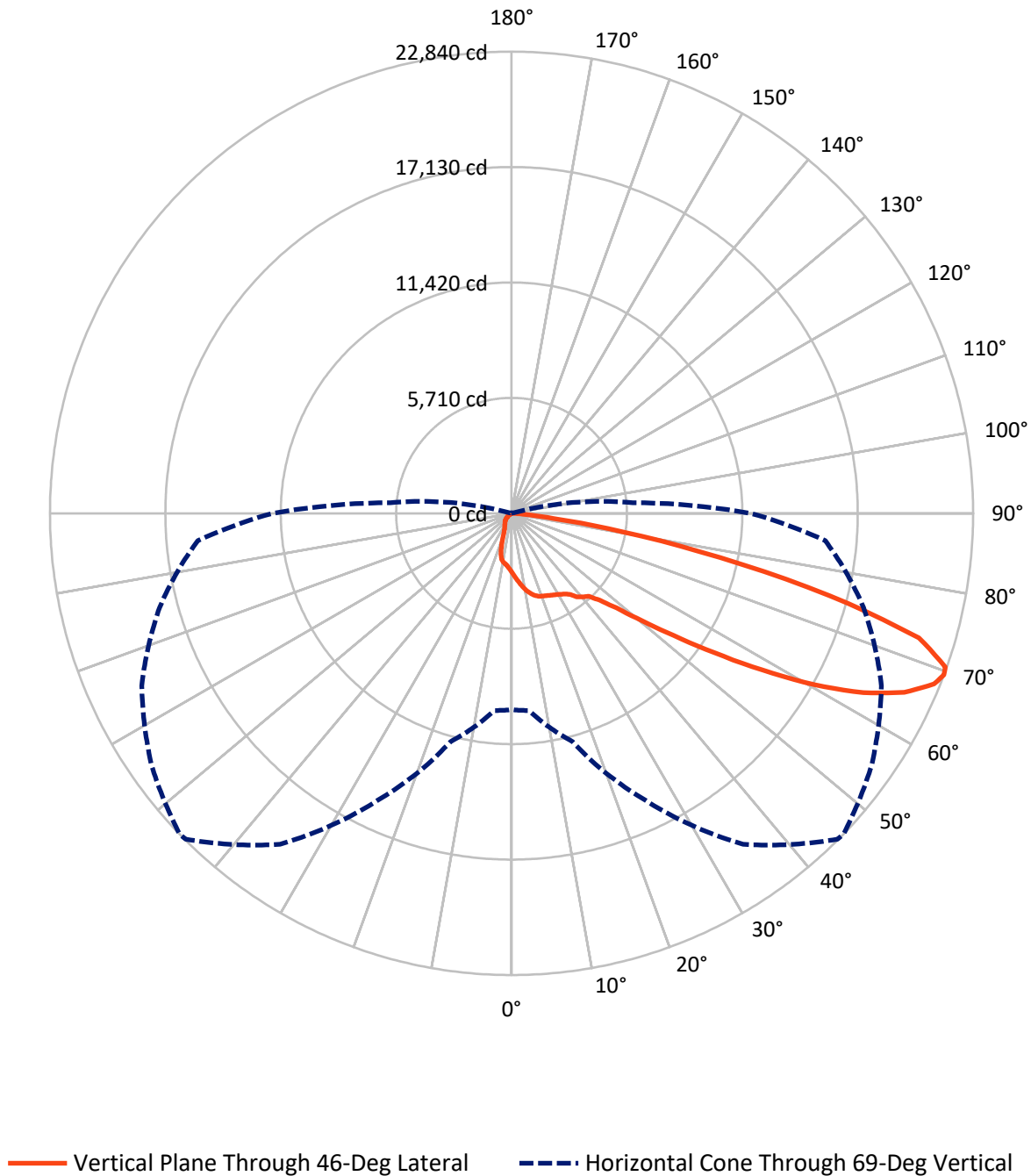
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3000.9	0.0	3000.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	26240.1	0.0	26240.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	29241.0	0.0	29241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.0
10°-20°	884.7	3.0
20°-30°	1391.3	4.8
30°-40°	1995.2	6.8
40°-50°	3448.5	11.8
50°-60°	6812.7	23.3
60°-70°	9521.4	32.6
70°-80°	4599.9	15.7
80°-90°	295.7	1.0
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°	29241.0	100.0
0°-180°	29241.0	100.0

Coefficient of Utilization



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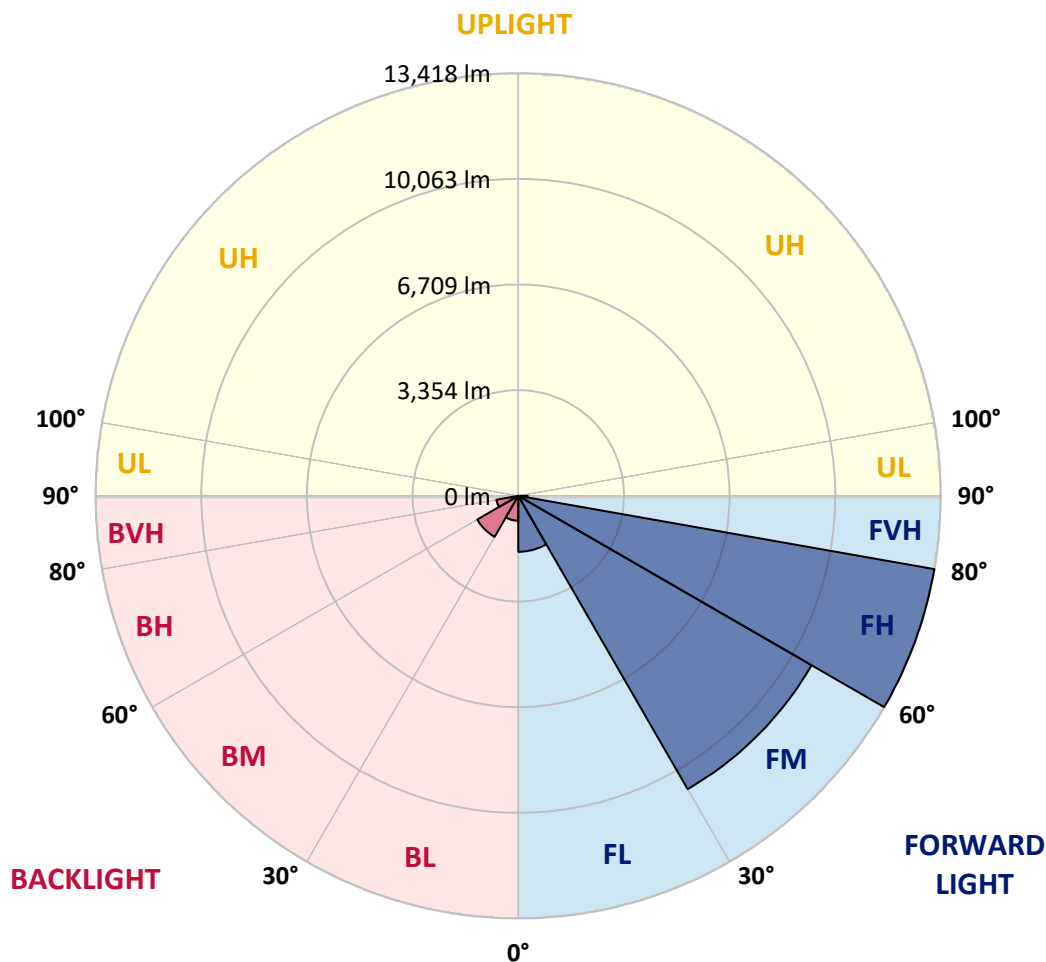
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1776.7	6.1			
FM	(30°-60°)	10752.6	36.8			
FH	(60°-80°)	13417.6	45.9			G5
FVH	(80°-90°)	293.2	1.0			G3/500
BL	(0°-30°)	790.9	2.7	B2/1000		
BM	(30°-60°)	1503.8	5.1	B2/2500		
BH	(60°-80°)	703.7	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8
2.5°	3254.8	3250.7	3231.5	3223.2	3176.6	3149.2	3138.2	3104.0	3054.6	3005.2	2950.4
5°	3624.9	3623.6	3587.9	3553.6	3465.9	3383.6	3368.6	3289.0	3178.0	3073.8	2969.6
7.5°	4003.3	3985.5	3949.9	3884.1	3756.6	3624.9	3612.6	3500.2	3342.5	3191.7	3042.3
10°	4324.2	4313.2	4266.6	4166.5	4017.0	3867.6	3852.5	3714.1	3535.8	3350.7	3160.2
12.5°	4573.7	4565.4	4503.8	4379.0	4220.0	4065.0	4044.5	3921.1	3730.5	3523.5	3298.6
15°	4725.9	4721.7	4646.3	4513.4	4357.1	4222.7	4204.9	4096.6	3919.7	3703.1	3449.5
17.5°	4761.5	4762.9	4684.7	4550.4	4421.5	4325.5	4311.8	4229.6	4081.5	3866.2	3600.3
20°	4682.0	4698.4	4628.5	4512.0	4432.5	4381.7	4370.8	4321.4	4196.6	3993.7	3720.9
22.5°	4569.6	4577.8	4529.8	4451.7	4418.8	4428.3	4422.9	4395.4	4289.9	4103.4	3840.2
25°	4501.0	4501.0	4472.2	4406.4	4428.3	4487.3	4488.7	4483.2	4399.6	4237.8	3985.5
27.5°	4498.3	4490.0	4457.1	4407.8	4468.1	4558.6	4564.1	4601.1	4549.0	4400.9	4166.5
30°	4607.9	4598.4	4528.4	4464.0	4540.8	4638.1	4651.8	4732.7	4706.7	4577.8	4368.0
32.5°	4864.3	4830.1	4675.1	4569.6	4627.1	4743.7	4761.5	4890.4	4931.5	4795.8	4562.7
35°	5215.3	5107.0	4883.5	4769.7	4775.2	4897.2	4913.7	5102.9	5224.9	4995.9	4713.5
37.5°	5699.3	5645.8	5282.5	4978.1	5002.8	5187.9	5235.9	5441.5	5407.2	5105.6	4884.9
40°	6760.4	6676.8	6290.2	5562.2	5220.8	5423.7	5438.8	5548.5	5551.2	5353.8	5241.4
42.5°	8205.5	8171.2	7764.0	6622.0	5649.9	5581.4	5608.8	5793.9	6000.9	5877.5	5872.0
45°	9805.4	9787.6	9355.7	8028.6	6517.8	6098.2	6132.5	6380.7	6776.9	6804.3	6978.4
47.5°	11092.8	11084.6	10836.4	9598.4	7846.3	6974.3	6985.3	7248.5	7945.0	8289.1	8567.4
50°	12266.4	12306.1	12110.1	11297.1	9656.0	8346.7	8320.6	8496.1	9614.9	10178.3	10523.8
52.5°	13897.9	13954.1	13404.3	12882.0	11554.8	10049.5	10028.9	10212.6	11622.0	12044.3	12106.0
55°	15338.8	15242.8	14808.2	14657.4	13870.5	12152.6	12147.1	12308.9	13563.4	13743.0	13856.8
57.5°	15975.0	15937.9	16147.7	16493.2	16295.8	14638.2	14625.9	14502.5	15300.4	15319.6	15669.2
60°	16376.7	16421.9	17064.9	18130.2	18622.4	17313.1	17233.5	16480.9	16959.3	16916.8	17291.1
62.5°	16075.0	16164.2	17321.3	19096.7	20363.5	19647.9	19535.5	18293.3	18377.0	18230.3	18578.5
65°	14473.7	14612.2	16508.3	18914.4	21227.3	21472.7	21358.9	19893.3	19502.6	19261.3	19067.9
67.5°	11752.3	11834.5	13814.3	17328.1	20837.9	22561.3	22538.0	21295.8	20352.6	19087.1	17587.3
69°	9712.2	9793.1	11698.8	15658.3	19981.0	22794.3	22839.6	21745.5	20190.8	18028.7	15582.8
70°	8226.0	8312.4	10087.9	14226.9	18987.1	22686.0	22766.9	21703.0	19727.4	16803.0	13823.8
72.5°	4314.6	4388.6	6210.7	9801.3	15478.7	20831.1	21076.5	19868.6	16722.2	12203.3	8173.9
75°	1355.9	1398.4	2425.3	5123.4	10597.9	16197.1	16253.3	15585.6	11874.3	6712.4	3404.2
77.5°	516.9	504.5	807.5	1887.9	5357.9	10198.9	10543.0	9739.6	6231.2	2373.2	785.6
80°	278.3	279.7	419.5	781.5	2292.3	5241.4	5532.0	4720.4	2214.2	740.3	181.0
82.5°	120.6	126.1	235.8	414.0	1052.9	1933.1	2078.4	1730.2	845.9	497.7	67.2
85°	26.0	28.8	113.8	224.8	429.1	542.9	569.0	560.7	538.8	386.6	26.0
87.5°	0.0	0.0	50.7	80.9	108.3	123.4	108.3	141.2	297.5	260.5	13.7
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°	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8	2929.8
2.5°	2932.6	2907.9	2865.4	2818.8	2785.9	2751.6	2724.2	2711.8	2698.1	2688.5	2700.9
5°	2927.1	2879.1	2796.9	2717.3	2659.8	2613.1	2574.7	2559.7	2544.6	2533.6	2532.2
7.5°	2975.1	2907.9	2781.8	2665.2	2576.1	2513.1	2461.0	2439.0	2421.2	2413.0	2406.1
10°	3066.9	2980.6	2811.9	2659.8	2544.6	2437.6	2325.2	2238.9	2182.6	2156.6	2147.0
12.5°	3186.2	3077.9	2869.5	2688.5	2521.3	2315.6	2077.1	1871.4	1738.4	1694.6	1668.5
15°	3326.1	3191.7	2944.9	2725.6	2436.3	2060.6	1656.2	1387.5	1264.1	1239.4	1212.0
17.5°	3460.4	3312.3	3035.4	2732.4	2249.8	1646.6	1213.3	1031.0	983.0	999.5	1003.6
20°	3578.3	3431.6	3124.5	2672.1	1911.2	1235.3	939.1	893.9	911.7	943.3	948.7
22.5°	3697.6	3546.8	3206.8	2513.1	1477.9	937.8	845.9	856.9	874.7	906.2	911.7
25°	3842.9	3686.6	3283.6	2221.0	1109.1	797.9	803.4	819.9	837.7	866.5	869.2
27.5°	4010.2	3863.5	3334.3	1841.3	822.6	733.5	751.3	776.0	793.8	821.2	826.7
30°	4232.3	4096.6	3350.7	1447.8	689.6	675.9	684.1	714.3	740.3	765.0	769.1
32.5°	4440.7	4326.9	3295.9	1092.7	638.9	622.4	622.4	640.3	670.4	693.7	699.2
35°	4632.6	4558.6	3120.4	799.3	600.5	573.1	559.4	559.4	578.6	597.8	603.2
37.5°	4886.3	4883.5	2836.6	637.5	563.5	532.0	503.2	481.2	474.4	478.5	481.2
40°	5320.9	5325.0	2466.4	571.7	532.0	489.4	445.6	405.8	368.8	356.5	355.1
42.5°	5999.5	5937.8	2078.4	540.2	504.5	445.6	379.8	326.3	268.7	250.9	249.5
45°	7077.1	6711.1	1667.1	511.4	475.7	396.2	314.0	241.3	194.7	181.0	181.0
47.5°	8646.9	7727.0	1291.5	479.9	437.4	340.0	237.2	174.1	142.6	135.7	137.1
50°	10270.2	8722.3	989.9	440.1	390.7	281.1	175.5	126.1	108.3	108.3	109.7
52.5°	11709.8	9451.7	771.9	397.6	333.2	220.7	133.0	98.7	90.5	89.1	90.5
55°	13057.5	9922.0	590.9	348.2	264.6	164.5	101.5	80.9	75.4	72.7	71.3
57.5°	14357.2	10155.0	442.8	281.1	191.9	119.3	80.9	68.6	63.1	59.0	57.6
60°	15222.3	9965.8	304.4	207.0	133.0	86.4	67.2	59.0	52.1	48.0	46.6
62.5°	15710.4	9449.0	196.1	149.4	94.6	64.4	53.5	49.4	39.8	35.6	35.6
65°	15512.9	8596.2	137.1	106.9	68.6	48.0	39.8	39.8	28.8	23.3	21.9
67.5°	13747.1	7262.2	104.2	79.5	49.4	35.6	30.2	34.3	17.8	11.0	11.0
69°	11827.7	6018.7	89.1	65.8	41.1	28.8	26.0	31.5	12.3	8.2	6.9
70°	10279.8	5192.0	80.9	57.6	34.3	24.7	23.3	30.2	12.3	6.9	5.5
72.5°	6150.3	2895.6	61.7	41.1	21.9	19.2	19.2	34.3	12.3	6.9	5.5
75°	2485.6	1020.0	45.2	28.8	16.5	16.5	23.3	43.9	11.0	5.5	4.1
77.5°	563.5	223.5	26.0	17.8	11.0	16.5	27.4	34.3	6.9	2.7	0.0
80°	137.1	54.8	16.5	11.0	6.9	12.3	20.6	19.2	1.4	0.0	0.0
82.5°	45.2	19.2	6.9	5.5	1.4	4.1	9.6	5.5	0.0	0.0	0.0
85°	19.2	11.0	2.7	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.3	4.1	0.0	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)