

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: P323003

Luminaire Tested: **GAN-SA9B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323003
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-SA9B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA 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: 27221 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

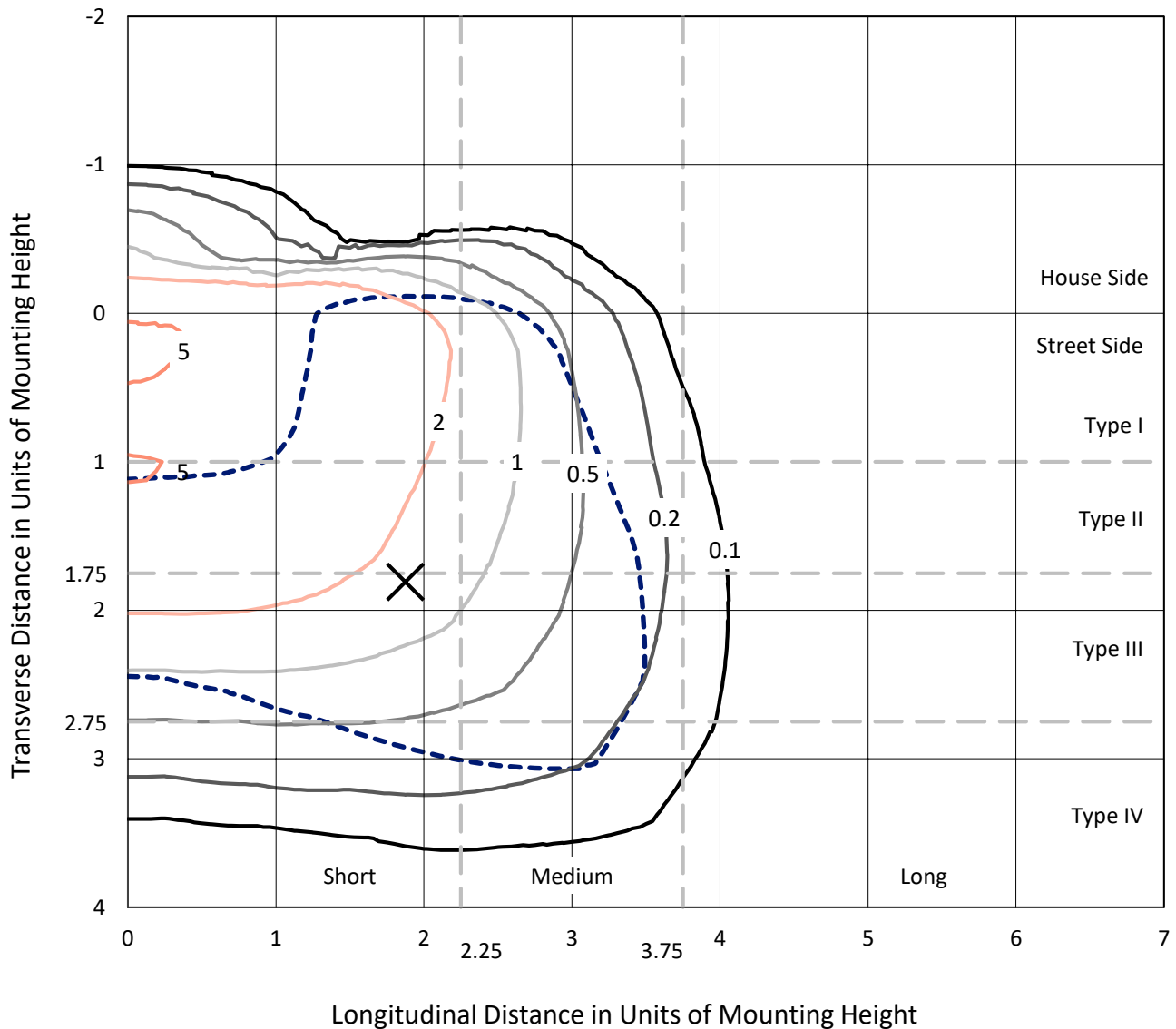
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

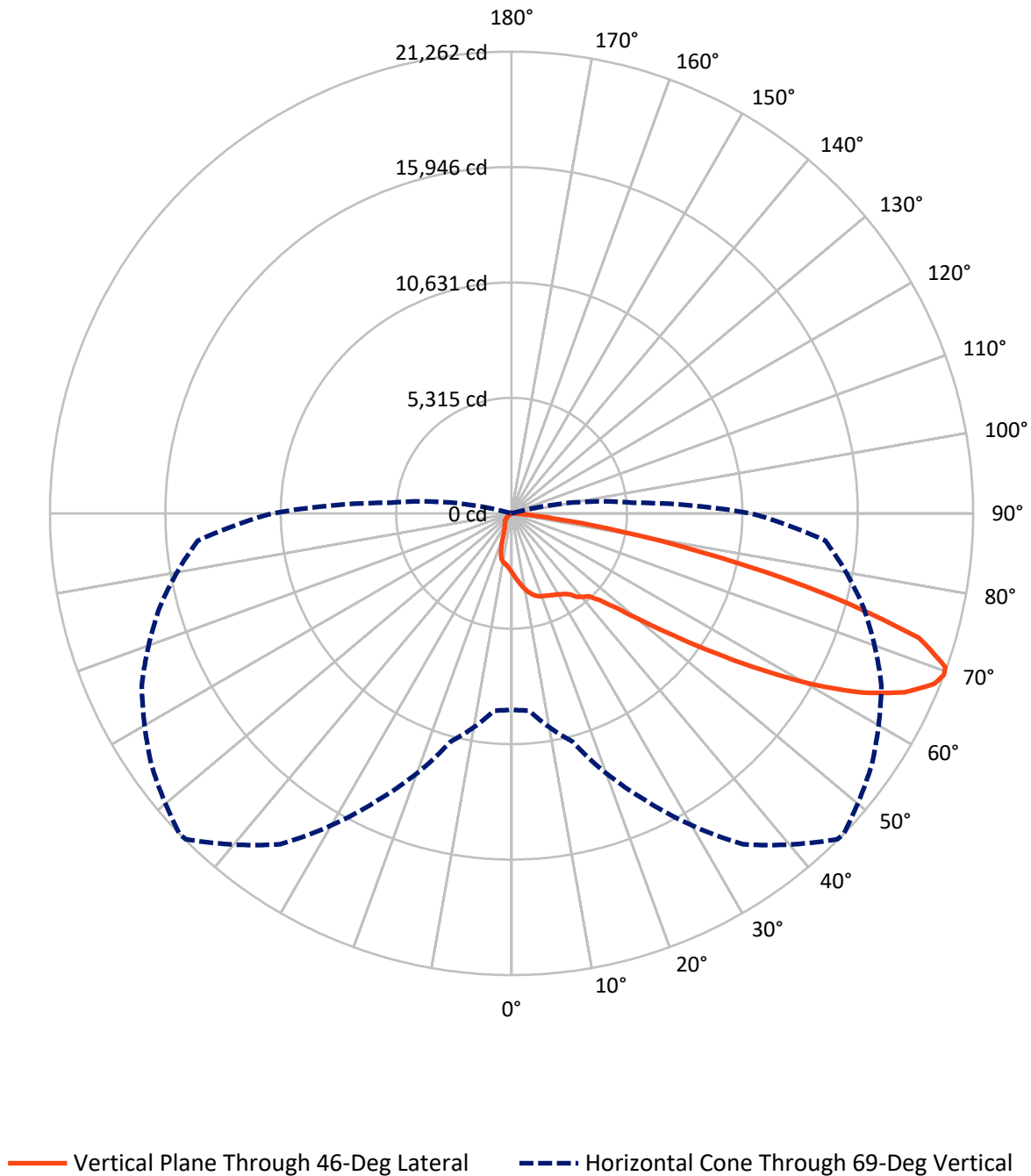
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2793.6	0.0	2793.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	24427.4	0.0	24427.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	27221.0	0.0	27221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.0
10°-20°	823.6	3.0
20°-30°	1295.2	4.8
30°-40°	1857.4	6.8
40°-50°	3210.2	11.8
50°-60°	6342.1	23.3
60°-70°	8863.7	32.6
70°-80°	4282.1	15.7
80°-90°	275.2	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°	27221.0	100.0
0°-180°	27221.0	100.0

Coefficient of Utilization



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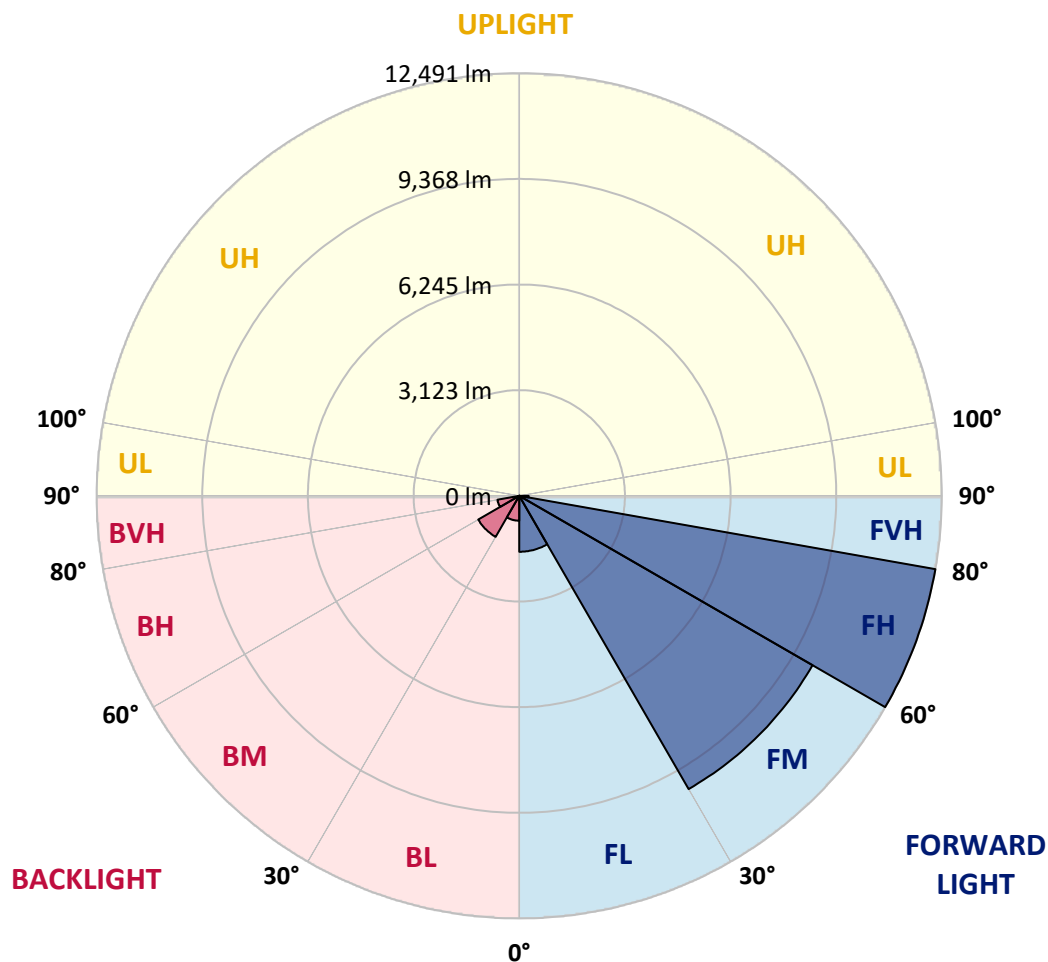
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.0	6.1			
FM	(30°-60°)	10009.8	36.8			
FH	(60°-80°)	12490.7	45.9			G5
FVH	(80°-90°)	272.9	1.0			G3/500
BL	(0°-30°)	736.3	2.7	B2/1000		
BM	(30°-60°)	1399.9	5.1	B2/2500		
BH	(60°-80°)	655.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	3029.9	3026.1	3008.2	3000.6	2957.2	2931.6	2921.4	2889.5	2843.6	2797.6	2746.6
5°	3374.5	3373.2	3340.1	3308.2	3226.5	3149.9	3135.9	3061.8	2958.5	2861.5	2764.5
7.5°	3726.8	3710.2	3677.0	3615.7	3497.0	3374.5	3363.0	3258.4	3111.6	2971.2	2832.1
10°	4025.4	4015.2	3971.8	3878.7	3739.5	3600.4	3586.4	3457.5	3291.6	3119.3	2941.9
12.5°	4257.7	4250.1	4192.6	4076.5	3928.4	3784.2	3765.1	3650.2	3472.8	3280.1	3070.8
15°	4399.4	4395.6	4325.4	4201.6	4056.1	3931.0	3914.4	3813.6	3648.9	3447.3	3211.2
17.5°	4432.6	4433.8	4361.1	4236.0	4116.1	4026.7	4013.9	3937.4	3799.5	3599.2	3351.6
20°	4358.5	4373.9	4308.8	4200.3	4126.3	4079.0	4068.8	4022.9	3906.7	3717.8	3463.9
22.5°	4253.9	4261.5	4216.9	4144.1	4113.5	4122.4	4117.3	4091.8	3993.5	3820.0	3574.9
25°	4190.1	4190.1	4163.3	4102.0	4122.4	4177.3	4178.6	4173.5	4095.6	3945.0	3710.2
27.5°	4187.5	4179.9	4149.2	4103.3	4159.4	4243.7	4248.8	4283.2	4234.7	4096.9	3878.7
30°	4289.6	4280.7	4215.6	4155.6	4227.1	4317.7	4330.5	4405.8	4381.5	4261.5	4066.3
32.5°	4528.3	4496.4	4352.2	4253.9	4307.5	4416.0	4432.6	4552.5	4590.8	4464.5	4247.5
35°	4855.0	4754.2	4546.2	4440.2	4445.3	4558.9	4574.2	4750.4	4864.0	4650.8	4387.9
37.5°	5305.6	5255.8	4917.6	4634.2	4657.2	4829.5	4874.2	5065.6	5033.7	4752.9	4547.4
40°	6293.4	6215.6	5855.6	5177.9	4860.1	5049.0	5063.1	5165.2	5167.7	4983.9	4879.3
42.5°	7638.6	7606.7	7227.7	6164.5	5259.6	5195.8	5221.3	5393.6	5586.3	5471.5	5466.4
45°	9128.1	9111.5	8709.4	7474.0	6067.5	5677.0	5708.9	5939.9	6308.7	6334.3	6496.3
47.5°	10326.5	10318.8	10087.8	8935.3	7304.2	6492.5	6502.7	6747.8	7396.1	7716.5	7975.6
50°	11419.0	11456.0	11273.5	10516.7	8988.9	7770.1	7745.8	7909.2	8950.7	9475.2	9796.8
52.5°	12937.8	12990.1	12478.3	11992.1	10756.6	9355.2	9336.1	9507.1	10819.2	11212.3	11269.7
55°	14279.2	14189.8	13785.3	13644.9	12912.3	11313.1	11308.0	11458.6	12626.4	12793.6	12899.5
57.5°	14871.4	14836.9	15032.2	15353.8	15170.0	13627.0	13615.5	13500.6	14243.5	14261.3	14586.8
60°	15245.3	15287.5	15886.0	16877.7	17335.9	16117.1	16043.0	15342.3	15787.8	15748.2	16096.6
62.5°	14964.6	15047.5	16124.7	17777.5	18956.8	18290.6	18185.9	17029.6	17107.5	16970.9	17295.1
65°	13473.8	13602.8	15367.9	17607.8	19760.9	19989.3	19883.4	18519.0	18155.3	17930.7	17750.7
67.5°	10940.4	11017.0	12859.9	16131.1	19398.4	21002.7	20981.0	19824.7	18946.6	17768.6	16372.3
69°	9041.3	9116.6	10890.6	14576.6	18600.7	21219.7	21261.8	20243.3	18796.0	16783.3	14506.4
70°	7657.8	7738.2	9391.0	13244.1	17675.4	21118.9	21194.2	20203.8	18364.6	15642.3	12868.9
72.5°	4016.5	4085.4	5781.6	9124.2	14409.4	19392.0	19620.5	18496.1	15567.0	11360.3	7609.3
75°	1262.3	1301.8	2257.8	4769.5	9865.8	15078.1	15130.5	14508.9	11054.0	6248.7	3169.0
77.5°	481.2	469.7	751.7	1757.5	4987.8	9494.4	9814.7	9066.8	5800.8	2209.3	731.3
80°	259.1	260.4	390.5	727.5	2134.0	4879.3	5149.9	4394.3	2061.2	689.2	168.5
82.5°	112.3	117.4	219.5	385.4	980.2	1799.6	1934.9	1610.7	787.5	463.3	62.5
85°	24.2	26.8	105.9	209.3	399.5	505.4	529.7	522.0	501.6	359.9	24.2
87.5°	0.0	0.0	47.2	75.3	100.8	114.9	100.8	131.5	277.0	242.5	12.8
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°	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4	2727.4
2.5°	2730.0	2707.0	2667.5	2624.1	2593.4	2561.5	2536.0	2524.5	2511.7	2502.8	2514.3
5°	2724.9	2680.2	2603.6	2529.6	2476.0	2432.6	2396.9	2382.8	2368.8	2358.6	2357.3
7.5°	2769.6	2707.0	2589.6	2481.1	2398.2	2339.4	2290.9	2270.5	2253.9	2246.3	2239.9
10°	2855.1	2774.7	2617.7	2476.0	2368.8	2269.3	2164.6	2084.2	2031.9	2007.6	1998.7
12.5°	2966.1	2865.3	2671.3	2502.8	2347.1	2155.7	1933.6	1742.1	1618.3	1577.5	1553.3
15°	3096.3	2971.2	2741.5	2537.3	2268.0	1918.3	1541.8	1291.6	1176.7	1153.8	1128.2
17.5°	3221.4	3083.5	2825.7	2543.7	2094.4	1532.8	1129.5	959.8	915.1	930.4	934.2
20°	3331.1	3194.6	2908.7	2487.5	1779.2	1149.9	874.3	832.1	848.7	878.1	883.2
22.5°	3442.2	3301.8	2985.3	2339.4	1375.8	873.0	787.5	797.7	814.3	843.6	848.7
25°	3577.5	3432.0	3056.7	2067.6	1032.5	742.8	747.9	763.2	779.8	806.6	809.2
27.5°	3733.2	3596.6	3103.9	1714.1	765.8	682.8	699.4	722.4	739.0	764.5	769.6
30°	3939.9	3813.6	3119.3	1347.8	642.0	629.2	636.9	664.9	689.2	712.2	716.0
32.5°	4133.9	4028.0	3068.2	1017.2	594.8	579.4	579.4	596.0	624.1	645.8	650.9
35°	4312.6	4243.7	2904.8	744.1	559.0	533.5	520.7	520.7	538.6	556.5	561.6
37.5°	4548.7	4546.2	2640.7	593.5	524.6	495.2	468.4	448.0	441.6	445.4	448.0
40°	4953.3	4957.1	2296.1	532.2	495.2	455.6	414.8	377.8	343.3	331.8	330.6
42.5°	5585.1	5527.6	1934.9	502.9	469.7	414.8	353.5	303.8	250.2	233.6	232.3
45°	6588.2	6247.5	1552.0	476.1	442.9	368.8	292.3	224.6	181.2	168.5	168.5
47.5°	8049.6	7193.2	1202.3	446.7	407.1	316.5	220.8	162.1	132.7	126.4	127.6
50°	9560.7	8119.8	921.5	409.7	363.7	261.6	163.4	117.4	100.8	100.8	102.1
52.5°	10900.8	8798.8	718.6	370.1	310.1	205.5	123.8	91.9	84.2	83.0	84.2
55°	12155.4	9236.5	550.1	324.2	246.3	153.2	94.4	75.3	70.2	67.6	66.4
57.5°	13365.4	9453.5	412.2	261.6	178.7	111.0	75.3	63.8	58.7	54.9	53.6
60°	14170.7	9277.4	283.3	192.7	123.8	80.4	62.5	54.9	48.5	44.7	43.4
62.5°	14625.1	8796.2	182.5	139.1	88.1	60.0	49.8	45.9	37.0	33.2	33.2
65°	14441.3	8002.4	127.6	99.6	63.8	44.7	37.0	37.0	26.8	21.7	20.4
67.5°	12797.4	6760.5	97.0	74.0	45.9	33.2	28.1	31.9	16.6	10.2	10.2
69°	11010.6	5602.9	83.0	61.3	38.3	26.8	24.2	29.4	11.5	7.7	6.4
70°	9569.7	4833.3	75.3	53.6	31.9	23.0	21.7	28.1	11.5	6.4	5.1
72.5°	5725.5	2695.5	57.4	38.3	20.4	17.9	17.9	31.9	11.5	6.4	5.1
75°	2313.9	949.6	42.1	26.8	15.3	15.3	21.7	40.8	10.2	5.1	3.8
77.5°	524.6	208.0	24.2	16.6	10.2	15.3	25.5	31.9	6.4	2.6	0.0
80°	127.6	51.1	15.3	10.2	6.4	11.5	19.1	17.9	1.3	0.0	0.0
82.5°	42.1	17.9	6.4	5.1	1.3	3.8	8.9	5.1	0.0	0.0	0.0
85°	17.9	10.2	2.6	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	11.5	3.8	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)