

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: P323002

Luminaire Tested: **GAN-SA8B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323002
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-SA8B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 24402 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

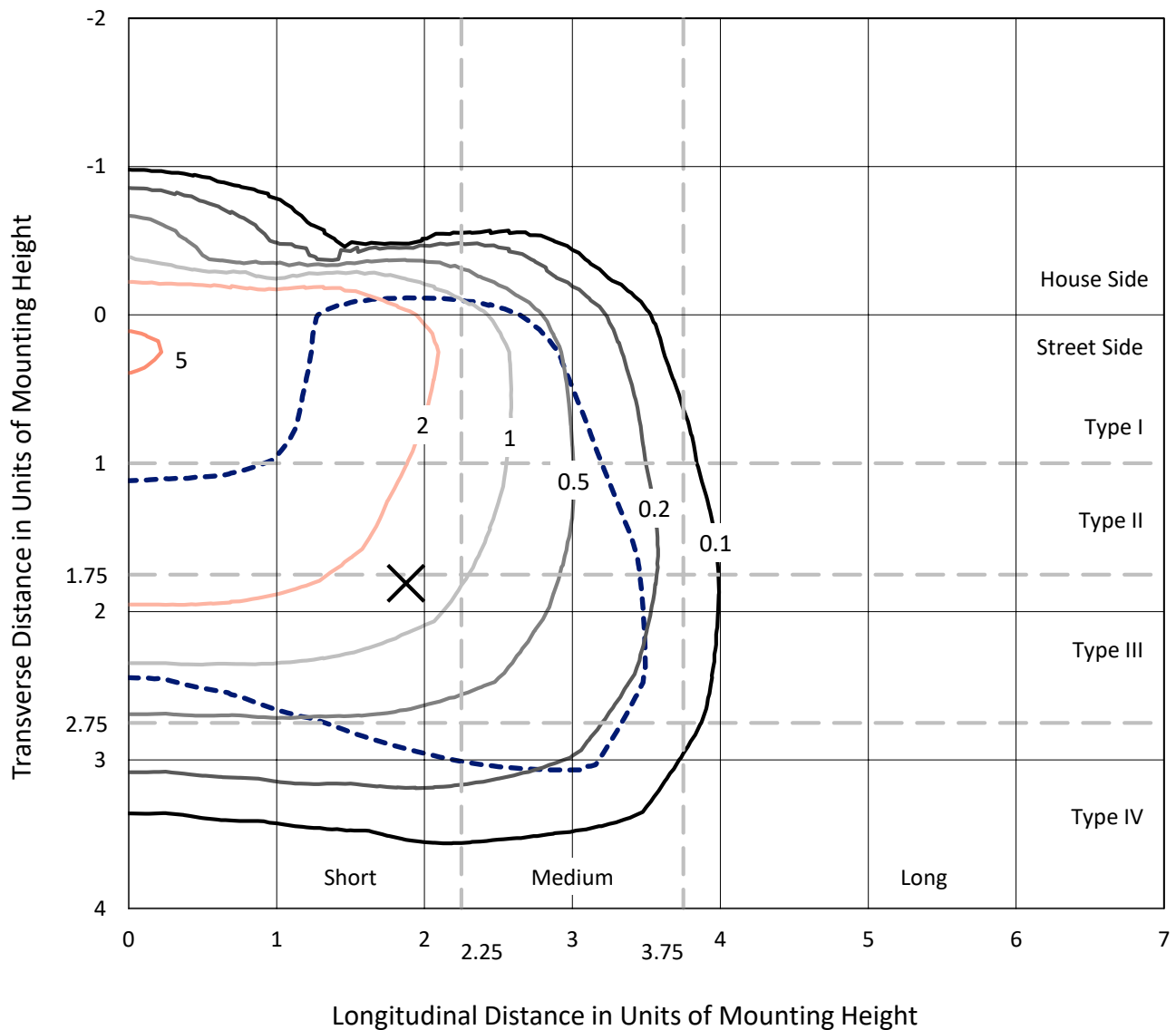
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

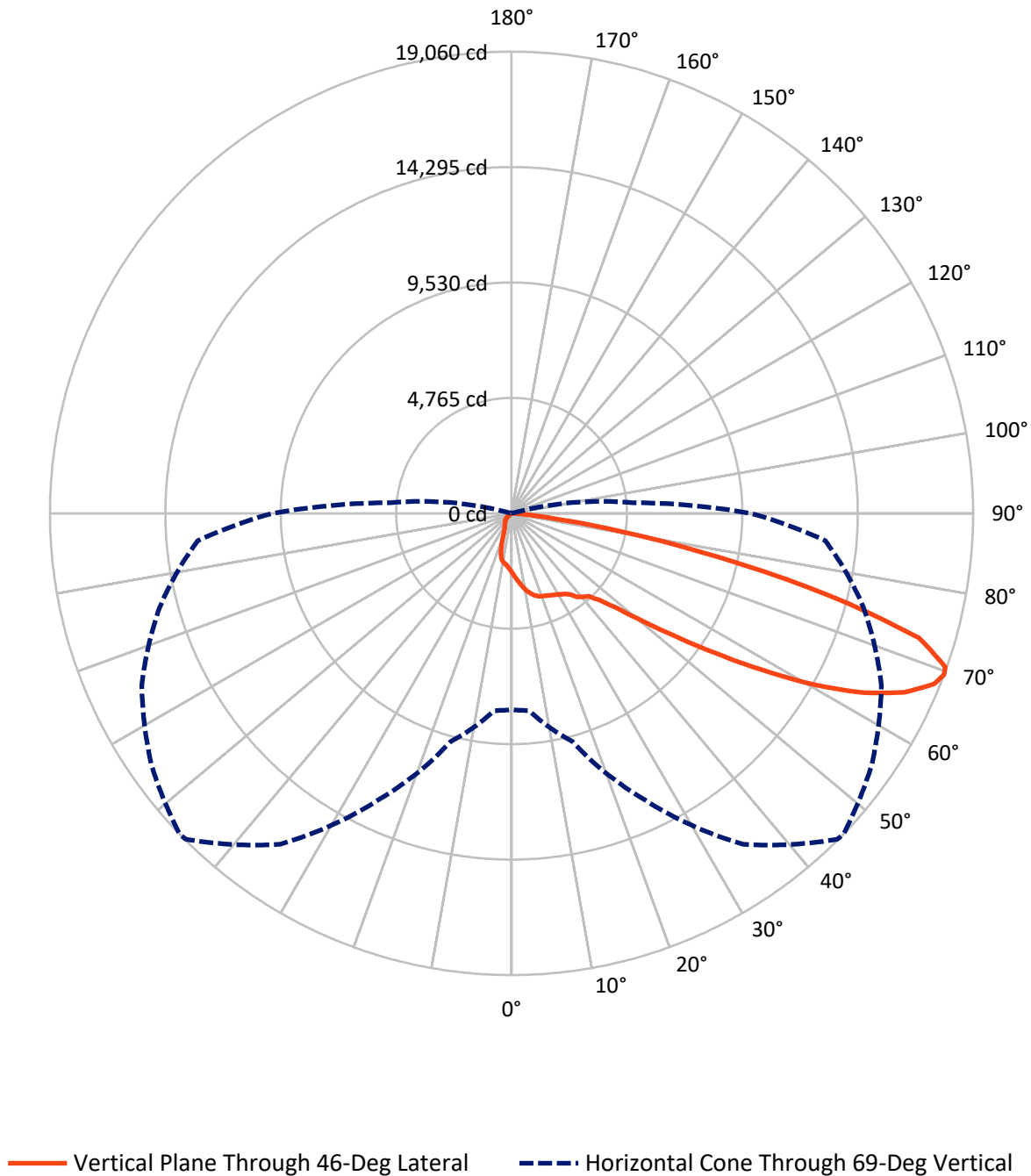
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2504.3	0.0	2504.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21897.7	0.0	21897.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	24402.0	0.0	24402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	1.0
10°-20°	738.3	3.0
20°-30°	1161.1	4.8
30°-40°	1665.0	6.8
40°-50°	2877.8	11.8
50°-60°	5685.3	23.3
60°-70°	7945.7	32.6
70°-80°	3838.7	15.7
80°-90°	246.7	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°	24402.0	100.0
0°-180°	24402.0	100.0

Coefficient of Utilization



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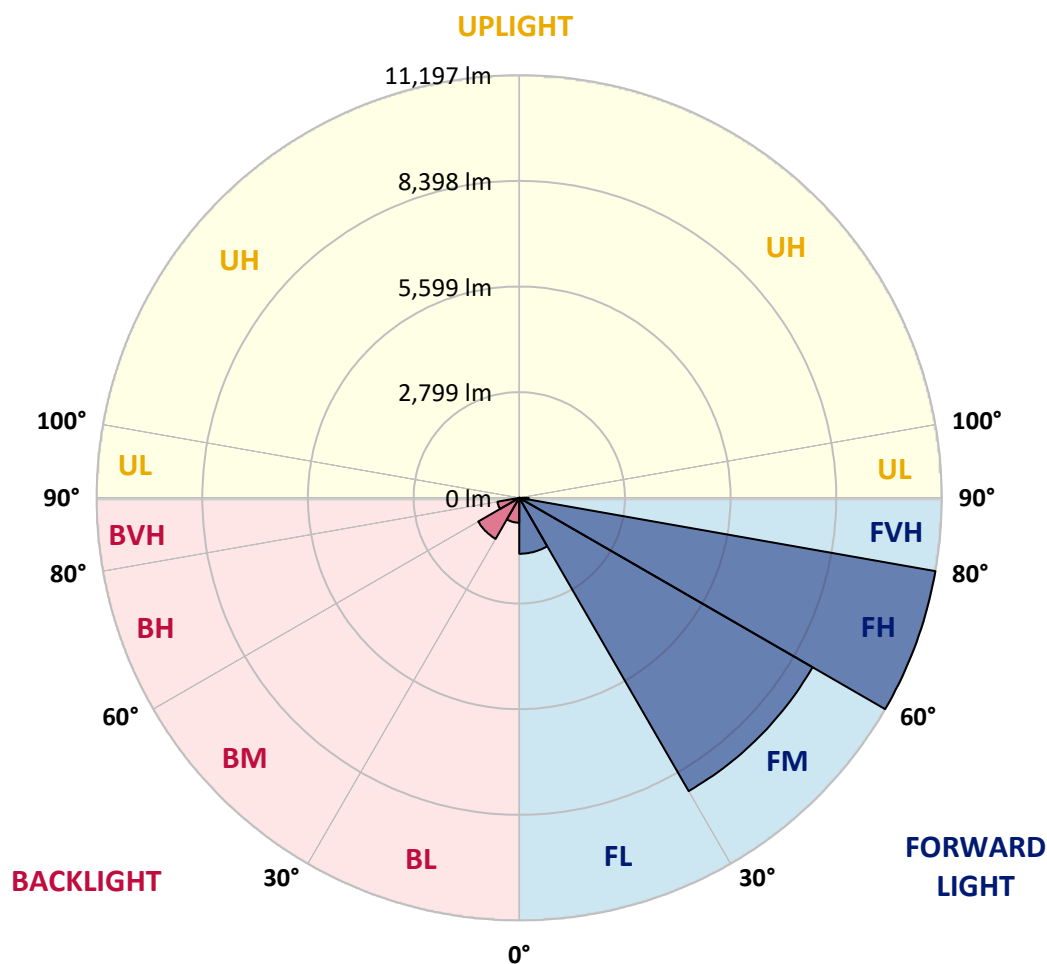
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1482.7	6.1			
FM	(30°-60°)	8973.2	36.8			
FH	(60°-80°)	11197.2	45.9			G4/12000
FVH	(80°-90°)	244.6	1.0			G3/500
BL	(0°-30°)	660.0	2.7	B2/1000		
BM	(30°-60°)	1255.0	5.1	B2/2500		
BH	(60°-80°)	587.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0
2.5°	2716.1	2712.7	2696.7	2689.8	2650.9	2628.0	2618.9	2590.3	2549.1	2507.9	2462.2
5°	3025.1	3023.9	2994.2	2965.6	2892.3	2823.7	2811.1	2744.7	2652.1	2565.1	2478.2
7.5°	3340.8	3326.0	3296.2	3241.3	3134.9	3025.1	3014.8	2920.9	2789.4	2663.5	2538.8
10°	3608.6	3599.4	3560.5	3477.0	3352.3	3227.6	3215.0	3099.4	2950.7	2796.2	2637.2
12.5°	3816.8	3809.9	3758.4	3654.3	3521.6	3392.3	3375.2	3272.2	3113.2	2940.4	2752.8
15°	3943.8	3940.4	3877.4	3766.5	3636.0	3523.9	3509.0	3418.6	3271.0	3090.3	2878.6
17.5°	3973.5	3974.7	3909.5	3797.3	3689.8	3609.7	3598.3	3529.6	3406.1	3226.4	3004.5
20°	3907.2	3920.9	3862.6	3765.3	3698.9	3656.6	3647.5	3606.3	3502.2	3332.8	3105.1
22.5°	3813.4	3820.2	3780.2	3715.0	3687.5	3695.5	3690.9	3668.1	3580.0	3424.4	3204.7
25°	3756.2	3756.2	3732.1	3677.2	3695.5	3744.7	3745.9	3741.3	3671.5	3536.5	3326.0
27.5°	3753.9	3747.0	3719.5	3678.4	3728.7	3804.2	3808.8	3839.7	3796.2	3672.6	3477.0
30°	3845.4	3837.4	3779.0	3725.3	3789.3	3870.6	3882.0	3949.5	3927.8	3820.2	3645.2
32.5°	4059.3	4030.7	3901.5	3813.4	3861.4	3958.7	3973.5	4081.1	4115.4	4002.1	3807.6
35°	4352.2	4261.9	4075.4	3980.4	3985.0	4086.8	4100.5	4258.4	4360.2	4169.2	3933.5
37.5°	4756.1	4711.5	4408.3	4154.3	4174.9	4329.4	4369.4	4541.0	4512.4	4260.7	4076.5
40°	5641.7	5571.9	5249.2	4641.7	4356.8	4526.1	4538.7	4630.3	4632.6	4467.8	4374.0
42.5°	6847.6	6819.0	6479.2	5526.1	4714.9	4657.7	4680.6	4835.1	5007.8	4904.9	4900.3
45°	8182.8	8167.9	7807.5	6700.0	5439.2	5089.1	5117.7	5324.7	5655.4	5678.3	5823.6
47.5°	9257.1	9250.2	9043.1	8010.0	6547.8	5820.1	5829.3	6049.0	6630.2	6917.4	7149.6
50°	10236.5	10269.6	10106.0	9427.6	8058.1	6965.4	6943.7	7090.1	8023.7	8494.0	8782.3
52.5°	11598.0	11644.9	11186.1	10750.2	9642.7	8386.4	8369.3	8522.6	9698.7	10051.1	10102.6
55°	12800.4	12720.4	12357.7	12231.8	11575.1	10141.5	10136.9	10271.9	11318.8	11468.7	11563.6
57.5°	13331.3	13300.4	13475.5	13763.8	13599.0	12215.8	12205.5	12102.5	12768.4	12784.4	13076.2
60°	13666.5	13704.3	14240.9	15129.9	15540.6	14448.0	14381.6	13753.5	14152.8	14117.3	14429.7
62.5°	13414.8	13489.2	14454.8	15936.5	16993.6	16396.4	16302.6	15266.0	15335.8	15213.4	15504.0
65°	12078.5	12194.1	13776.4	15784.3	17714.4	17919.2	17824.3	16601.2	16275.1	16073.8	15912.5
67.5°	9807.4	9876.1	11528.2	14460.6	17389.5	18827.7	18808.2	17771.7	16984.5	15928.5	14676.8
69°	8105.0	8172.5	9762.8	13067.0	16674.4	19022.2	19059.9	18146.9	16849.5	15045.2	13004.1
70°	6864.7	6936.8	8418.5	11872.6	15844.9	18931.8	18999.3	18111.5	16462.8	14022.4	11536.2
72.5°	3600.6	3662.3	5182.9	8179.3	12917.1	17383.8	17588.6	16580.6	13954.9	10183.8	6821.3
75°	1131.5	1167.0	2024.0	4275.6	8844.1	13516.7	13563.6	13006.4	9909.2	5601.6	2840.9
77.5°	431.3	421.0	673.9	1575.5	4471.2	8511.1	8798.3	8127.8	5200.0	1980.5	655.6
80°	232.3	233.4	350.1	652.1	1913.0	4374.0	4616.5	3939.2	1847.8	617.8	151.0
82.5°	100.7	105.3	196.8	345.5	878.7	1613.2	1734.5	1443.9	705.9	415.3	56.1
85°	21.7	24.0	95.0	187.6	358.1	453.1	474.8	467.9	449.6	322.6	21.7
87.5°	0.0	0.0	42.3	67.5	90.4	103.0	90.4	117.8	248.3	217.4	11.4
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°	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0	2445.0
2.5°	2447.3	2426.7	2391.2	2352.3	2324.9	2296.3	2273.4	2263.1	2251.6	2243.6	2253.9
5°	2442.7	2402.7	2334.0	2267.7	2219.6	2180.7	2148.7	2136.1	2123.5	2114.3	2113.2
7.5°	2482.7	2426.7	2321.4	2224.2	2149.8	2097.2	2053.7	2035.4	2020.5	2013.7	2007.9
10°	2559.4	2487.3	2346.6	2219.6	2123.5	2034.2	1940.4	1868.4	1821.4	1799.7	1791.7
12.5°	2658.9	2568.6	2394.6	2243.6	2104.0	1932.4	1733.3	1561.7	1450.7	1414.1	1392.4
15°	2775.6	2663.5	2457.6	2274.5	2033.1	1719.6	1382.1	1157.9	1054.9	1034.3	1011.4
17.5°	2887.8	2764.2	2533.1	2280.2	1877.5	1374.1	1012.5	860.4	820.3	834.1	837.5
20°	2986.2	2863.7	2607.5	2229.9	1594.9	1030.9	783.7	746.0	760.8	787.2	791.7
22.5°	3085.7	2959.8	2676.1	2097.2	1233.4	782.6	705.9	715.1	729.9	756.3	760.8
25°	3207.0	3076.5	2740.2	1853.5	925.6	665.9	670.5	684.2	699.1	723.1	725.4
27.5°	3346.6	3224.1	2782.5	1536.6	686.5	612.1	627.0	647.6	662.4	685.3	689.9
30°	3531.9	3418.6	2796.2	1208.2	575.5	564.1	570.9	596.1	617.8	638.4	641.9
32.5°	3705.8	3610.8	2750.5	911.9	533.2	519.4	519.4	534.3	559.5	578.9	583.5
35°	3866.0	3804.2	2604.0	667.0	501.1	478.2	466.8	466.8	482.8	498.8	503.4
37.5°	4077.7	4075.4	2367.2	532.0	470.2	443.9	419.9	401.6	395.9	399.3	401.6
40°	4440.3	4443.8	2058.3	477.1	443.9	408.5	371.8	338.7	307.8	297.5	296.3
42.5°	5006.7	4955.2	1734.5	450.8	421.0	371.8	316.9	272.3	224.2	209.4	208.2
45°	5906.0	5600.5	1391.3	426.8	397.0	330.7	262.0	201.4	162.5	151.0	151.0
47.5°	7216.0	6448.3	1077.8	400.4	365.0	283.7	197.9	145.3	119.0	113.3	114.4
50°	8570.6	7278.9	826.1	367.3	326.1	234.5	146.4	105.3	90.4	90.4	91.5
52.5°	9771.9	7887.6	644.1	331.8	278.0	184.2	111.0	82.4	75.5	74.4	75.5
55°	10896.6	8280.0	493.1	290.6	220.8	137.3	84.7	67.5	62.9	60.6	59.5
57.5°	11981.2	8474.5	369.6	234.5	160.2	99.5	67.5	57.2	52.6	49.2	48.1
60°	12703.2	8316.6	254.0	172.8	111.0	72.1	56.1	49.2	43.5	40.0	38.9
62.5°	13110.5	7885.3	163.6	124.7	78.9	53.8	44.6	41.2	33.2	29.7	29.7
65°	12945.7	7173.6	114.4	89.2	57.2	40.0	33.2	33.2	24.0	19.5	18.3
67.5°	11472.1	6060.4	87.0	66.4	41.2	29.7	25.2	28.6	14.9	9.2	9.2
69°	9870.3	5022.7	74.4	54.9	34.3	24.0	21.7	26.3	10.3	6.9	5.7
70°	8578.6	4332.8	67.5	48.1	28.6	20.6	19.5	25.2	10.3	5.7	4.6
72.5°	5132.5	2416.4	51.5	34.3	18.3	16.0	16.0	28.6	10.3	5.7	4.6
75°	2074.3	851.2	37.8	24.0	13.7	13.7	19.5	36.6	9.2	4.6	3.4
77.5°	470.2	186.5	21.7	14.9	9.2	13.7	22.9	28.6	5.7	2.3	0.0
80°	114.4	45.8	13.7	9.2	5.7	10.3	17.2	16.0	1.1	0.0	0.0
82.5°	37.8	16.0	5.7	4.6	1.1	3.4	8.0	4.6	0.0	0.0	0.0
85°	16.0	9.2	2.3	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	10.3	3.4	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)