

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: P322819

Luminaire Tested: **GAN-SA5D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322819
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-SA5D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 23506 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

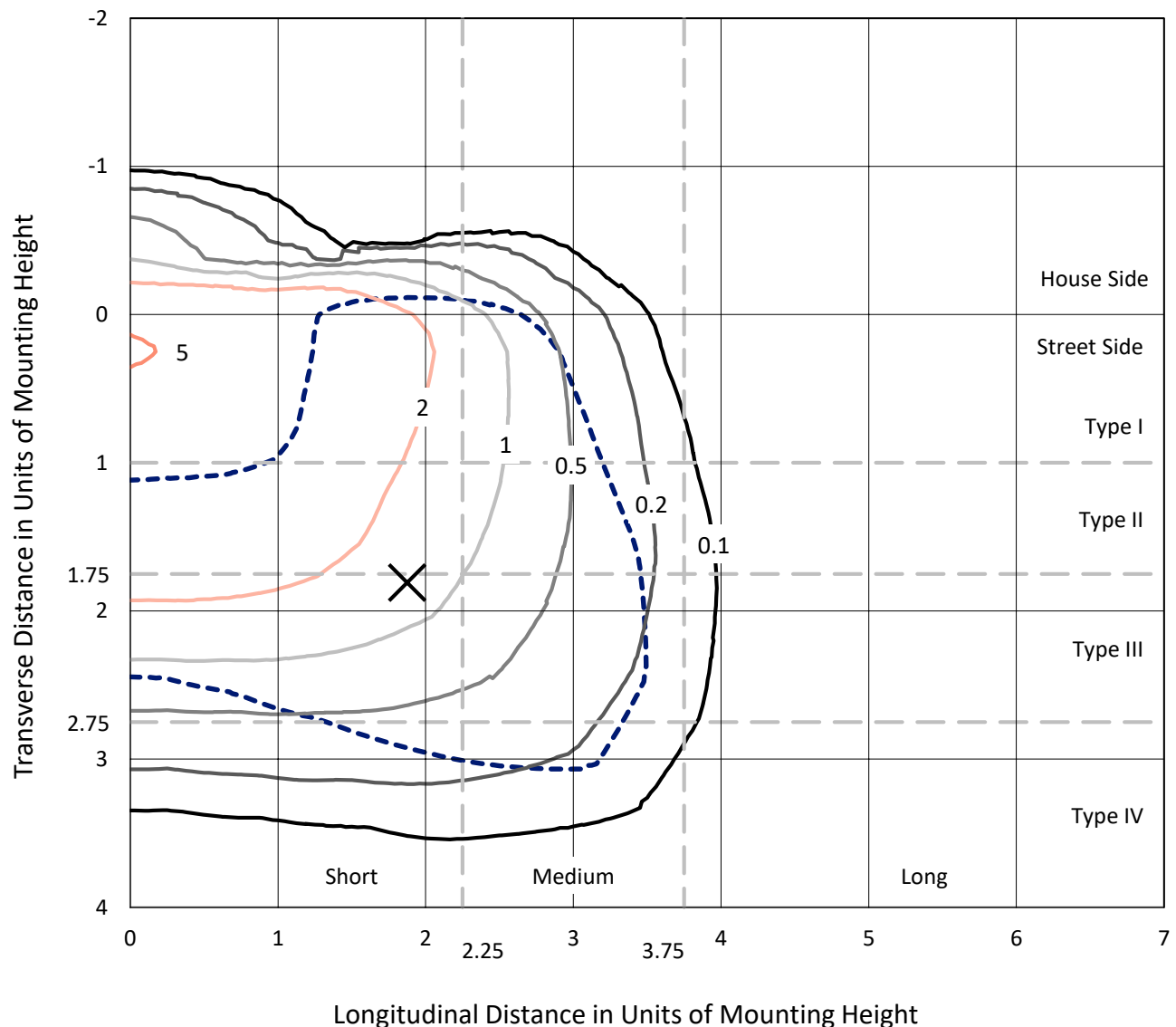
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

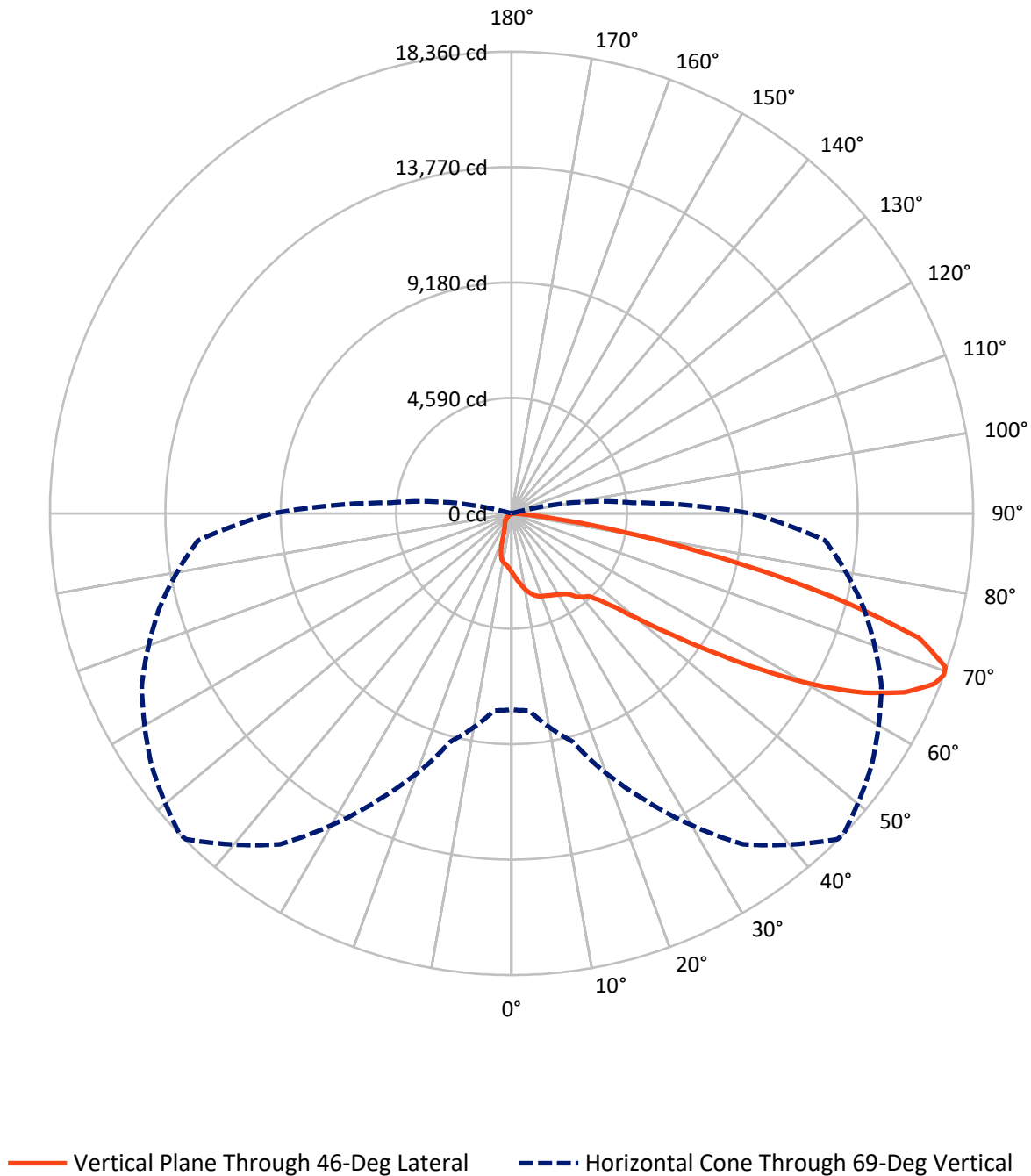
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2412.3	0.0	2412.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21093.6	0.0	21093.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	23506.0	0.0	23506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	1.0
10°-20°	711.2	3.0
20°-30°	1118.5	4.8
30°-40°	1603.9	6.8
40°-50°	2772.1	11.8
50°-60°	5476.6	23.3
60°-70°	7654.0	32.6
70°-80°	3697.7	15.7
80°-90°	237.7	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°	23506.0	100.0
0°-180°	23506.0	100.0

Coefficient of Utilization



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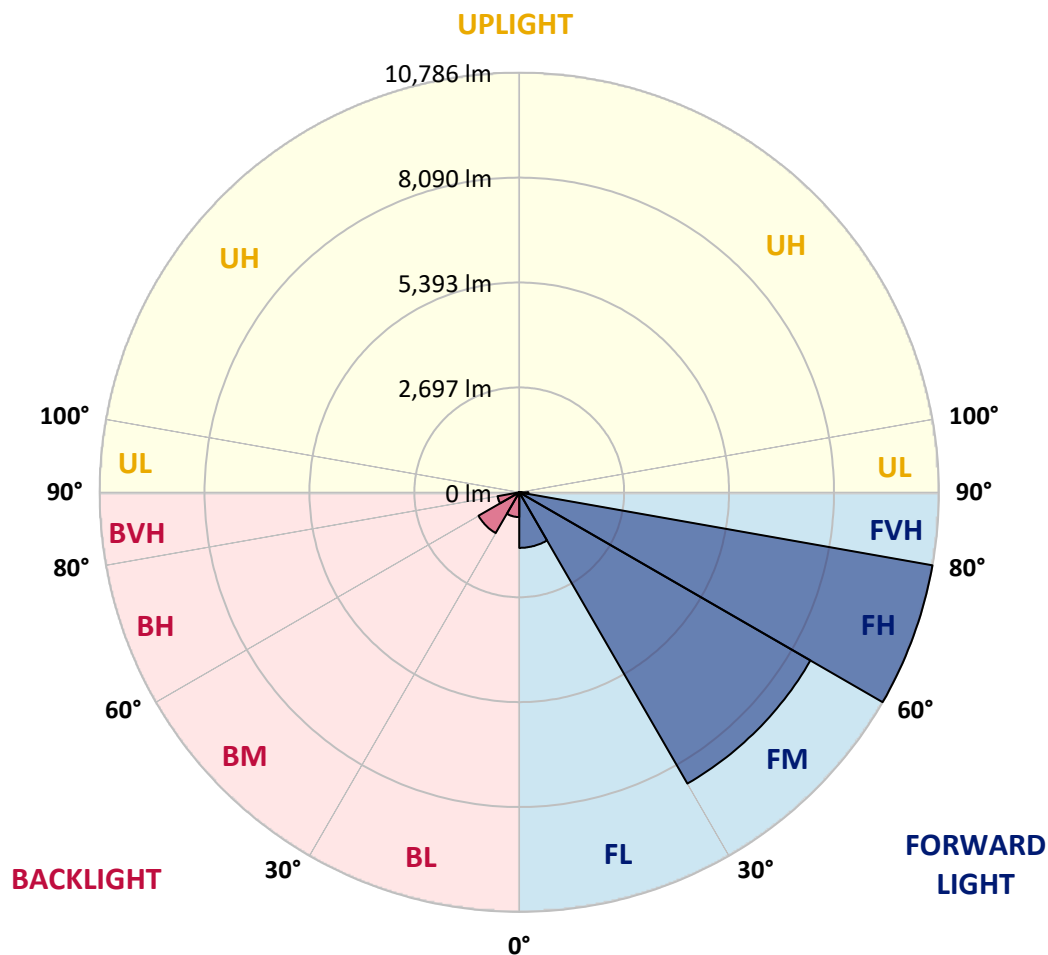
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.3	6.1			
FM	(30°-60°)	8643.7	36.8			
FH	(60°-80°)	10786.0	45.9			G4/12000
FVH	(80°-90°)	235.7	1.0			G3/500
BL	(0°-30°)	635.8	2.7	B2/1000		
BM	(30°-60°)	1208.9	5.1	B2/2500		
BH	(60°-80°)	565.6	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.0	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°	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2
2.5°	2616.4	2613.1	2597.7	2591.1	2553.6	2531.6	2522.7	2495.2	2455.5	2415.8	2371.7
5°	2914.0	2912.9	2884.2	2856.7	2786.1	2720.0	2707.9	2644.0	2554.7	2470.9	2387.2
7.5°	3218.2	3203.8	3175.2	3122.3	3019.8	2914.0	2904.1	2813.7	2686.9	2565.7	2445.6
10°	3476.1	3467.2	3429.8	3349.3	3229.2	3109.1	3096.9	2985.6	2842.3	2693.6	2540.4
12.5°	3676.6	3670.0	3620.4	3520.1	3392.3	3267.8	3251.2	3152.0	2998.8	2832.4	2651.7
15°	3799.0	3795.7	3735.1	3628.2	3502.5	3394.5	3380.2	3293.1	3150.9	2976.8	2772.9
17.5°	3827.6	3828.7	3765.9	3657.9	3554.3	3477.2	3466.1	3400.0	3281.0	3108.0	2894.1
20°	3763.7	3776.9	3720.7	3627.1	3563.1	3522.3	3513.5	3473.9	3373.6	3210.5	2991.1
22.5°	3673.3	3680.0	3641.4	3578.6	3552.1	3559.8	3555.4	3533.4	3448.5	3298.6	3087.0
25°	3618.2	3618.2	3595.1	3542.2	3559.8	3607.2	3608.3	3603.9	3536.7	3406.6	3203.8
27.5°	3616.0	3609.4	3583.0	3543.3	3591.8	3664.5	3668.9	3698.7	3656.8	3537.8	3349.3
30°	3704.2	3696.5	3640.3	3588.5	3650.2	3728.4	3739.5	3804.5	3783.6	3680.0	3511.3
32.5°	3910.3	3882.7	3758.2	3673.3	3719.6	3813.3	3827.6	3931.2	3964.3	3855.2	3667.8
35°	4192.4	4105.4	3925.7	3834.2	3838.7	3936.7	3950.0	4102.1	4200.1	4016.1	3789.1
37.5°	4581.5	4538.5	4246.4	4001.8	4021.6	4170.4	4209.0	4374.3	4346.7	4104.3	3926.8
40°	5434.5	5367.3	5056.5	4471.3	4196.8	4360.0	4372.1	4460.2	4462.5	4303.7	4213.4
42.5°	6596.1	6568.6	6241.3	5323.2	4541.8	4486.7	4508.7	4657.5	4823.9	4724.8	4720.3
45°	7882.3	7868.0	7520.8	6454.0	5239.4	4902.2	4929.7	5129.2	5447.7	5469.8	5609.8
47.5°	8917.2	8910.6	8711.1	7715.9	6307.4	5606.4	5615.3	5826.9	6386.7	6663.4	6887.1
50°	9860.6	9892.6	9735.0	9081.4	7762.2	6709.7	6688.7	6829.8	7729.1	8182.1	8459.8
52.5°	11172.1	11217.3	10775.3	10355.4	9288.6	8078.5	8061.9	8209.6	9342.6	9682.1	9731.6
55°	12330.4	12253.3	11903.9	11782.7	11150.1	9769.1	9764.7	9894.8	10903.2	11047.6	11139.0
57.5°	12841.8	12812.1	12980.7	13258.4	13099.7	11767.2	11757.3	11658.1	12299.6	12315.0	12596.0
60°	13164.7	13201.1	13718.0	14574.3	14970.0	13917.5	13853.5	13248.5	13633.1	13599.0	13899.8
62.5°	12922.3	12993.9	13924.1	15351.3	16369.7	15794.4	15704.0	14705.5	14772.7	14654.8	14934.7
65°	11635.0	11746.3	13270.5	15204.7	17064.0	17261.3	17169.8	15991.6	15677.5	15483.6	15328.2
67.5°	9447.3	9513.4	11104.9	13929.6	16751.0	18136.4	18117.6	17119.1	16360.9	15343.6	14137.9
69°	7807.4	7872.4	9404.3	12587.2	16062.2	18323.7	18360.1	17480.6	16230.8	14492.8	12526.6
70°	6612.7	6682.1	8109.3	11436.6	15263.1	18236.6	18301.7	17446.4	15858.3	13507.5	11112.6
72.5°	3468.3	3527.9	4992.6	7879.0	12442.8	16745.5	16942.8	15971.8	13442.5	9809.9	6570.8
75°	1090.0	1124.2	1949.6	4118.6	8519.3	13020.4	13065.5	12528.8	9545.4	5395.9	2736.5
77.5°	415.5	405.6	649.1	1517.6	4307.1	8198.6	8475.2	7829.4	5009.1	1907.8	631.5
80°	223.7	224.8	337.2	628.2	1842.7	4213.4	4447.0	3794.6	1779.9	595.1	145.5
82.5°	97.0	101.4	189.6	332.8	846.4	1554.0	1670.8	1390.9	680.0	400.1	54.0
85°	20.9	23.1	91.5	180.7	345.0	436.4	457.4	450.8	433.1	310.8	20.9
87.5°	0.0	0.0	40.8	65.0	87.1	99.2	87.1	113.5	239.2	209.4	11.0
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°	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2	2355.2
2.5°	2357.4	2337.6	2303.4	2265.9	2239.5	2211.9	2189.9	2180.0	2169.0	2161.2	2171.2
5°	2353.0	2314.4	2248.3	2184.4	2138.1	2100.6	2069.8	2057.6	2045.5	2036.7	2035.6
7.5°	2391.6	2337.6	2236.2	2142.5	2070.9	2020.2	1978.3	1960.7	1946.3	1939.7	1934.2
10°	2465.4	2396.0	2260.4	2138.1	2045.5	1959.6	1869.2	1799.7	1754.6	1733.6	1725.9
12.5°	2561.3	2474.2	2306.7	2161.2	2026.8	1861.5	1669.7	1504.4	1397.5	1362.2	1341.3
15°	2673.7	2565.7	2367.3	2191.0	1958.5	1656.5	1331.4	1115.3	1016.1	996.3	974.3
17.5°	2781.7	2662.7	2440.1	2196.5	1808.6	1323.6	975.4	828.8	790.2	803.4	806.7
20°	2876.5	2758.6	2511.7	2148.0	1536.3	993.0	754.9	718.6	732.9	758.3	762.7
22.5°	2972.4	2851.2	2577.8	2020.2	1188.1	753.8	680.0	688.8	703.1	728.5	732.9
25°	3089.2	2963.6	2639.6	1785.4	891.6	641.4	645.8	659.1	673.4	696.5	698.7
27.5°	3223.7	3105.8	2680.3	1480.1	661.3	589.6	604.0	623.8	638.1	660.2	664.6
30°	3402.2	3293.1	2693.6	1163.8	554.4	543.3	550.0	574.2	595.1	615.0	618.3
32.5°	3569.7	3478.3	2649.5	878.4	513.6	500.4	500.4	514.7	538.9	557.7	562.1
35°	3724.0	3664.5	2508.4	642.5	482.7	460.7	449.7	449.7	465.1	480.5	484.9
37.5°	3927.9	3925.7	2280.3	512.5	453.0	427.6	404.5	386.8	381.3	384.6	386.8
40°	4277.3	4280.6	1982.7	459.6	427.6	393.5	358.2	326.2	296.5	286.5	285.4
42.5°	4822.8	4773.2	1670.8	434.2	405.6	358.2	305.3	262.3	216.0	201.7	200.6
45°	5689.1	5394.8	1340.2	411.1	382.4	318.5	252.4	194.0	156.5	145.5	145.5
47.5°	6951.0	6211.5	1038.2	385.7	351.6	273.3	190.7	140.0	114.6	109.1	110.2
50°	8255.9	7011.6	795.7	353.8	314.1	225.9	141.1	101.4	87.1	87.1	88.2
52.5°	9413.1	7598.0	620.5	319.6	267.8	177.4	106.9	79.4	72.7	71.6	72.7
55°	10496.5	7976.0	475.0	279.9	212.7	132.3	81.6	65.0	60.6	58.4	57.3
57.5°	11541.3	8163.3	356.0	225.9	154.3	95.9	65.0	55.1	50.7	47.4	46.3
60°	12236.7	8011.3	244.7	166.4	106.9	69.4	54.0	47.4	41.9	38.6	37.5
62.5°	12629.1	7595.8	157.6	120.1	76.0	51.8	43.0	39.7	32.0	28.7	28.7
65°	12470.4	6910.2	110.2	86.0	55.1	38.6	32.0	32.0	23.1	18.7	17.6
67.5°	11050.9	5837.9	83.8	63.9	39.7	28.7	24.2	27.6	14.3	8.8	8.8
69°	9507.9	4838.3	71.6	52.9	33.1	23.1	20.9	25.3	9.9	6.6	5.5
70°	8263.6	4173.7	65.0	46.3	27.6	19.8	18.7	24.2	9.9	5.5	4.4
72.5°	4944.1	2327.7	49.6	33.1	17.6	15.4	15.4	27.6	9.9	5.5	4.4
75°	1998.1	820.0	36.4	23.1	13.2	13.2	18.7	35.3	8.8	4.4	3.3
77.5°	453.0	179.6	20.9	14.3	8.8	13.2	22.0	27.6	5.5	2.2	0.0
80°	110.2	44.1	13.2	8.8	5.5	9.9	16.5	15.4	1.1	0.0	0.0
82.5°	36.4	15.4	5.5	4.4	1.1	3.3	7.7	4.4	0.0	0.0	0.0
85°	15.4	8.8	2.2	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
87.5°	9.9	3.3	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)