

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: P322649

Luminaire Tested: **GAN-SA5C-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25104 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

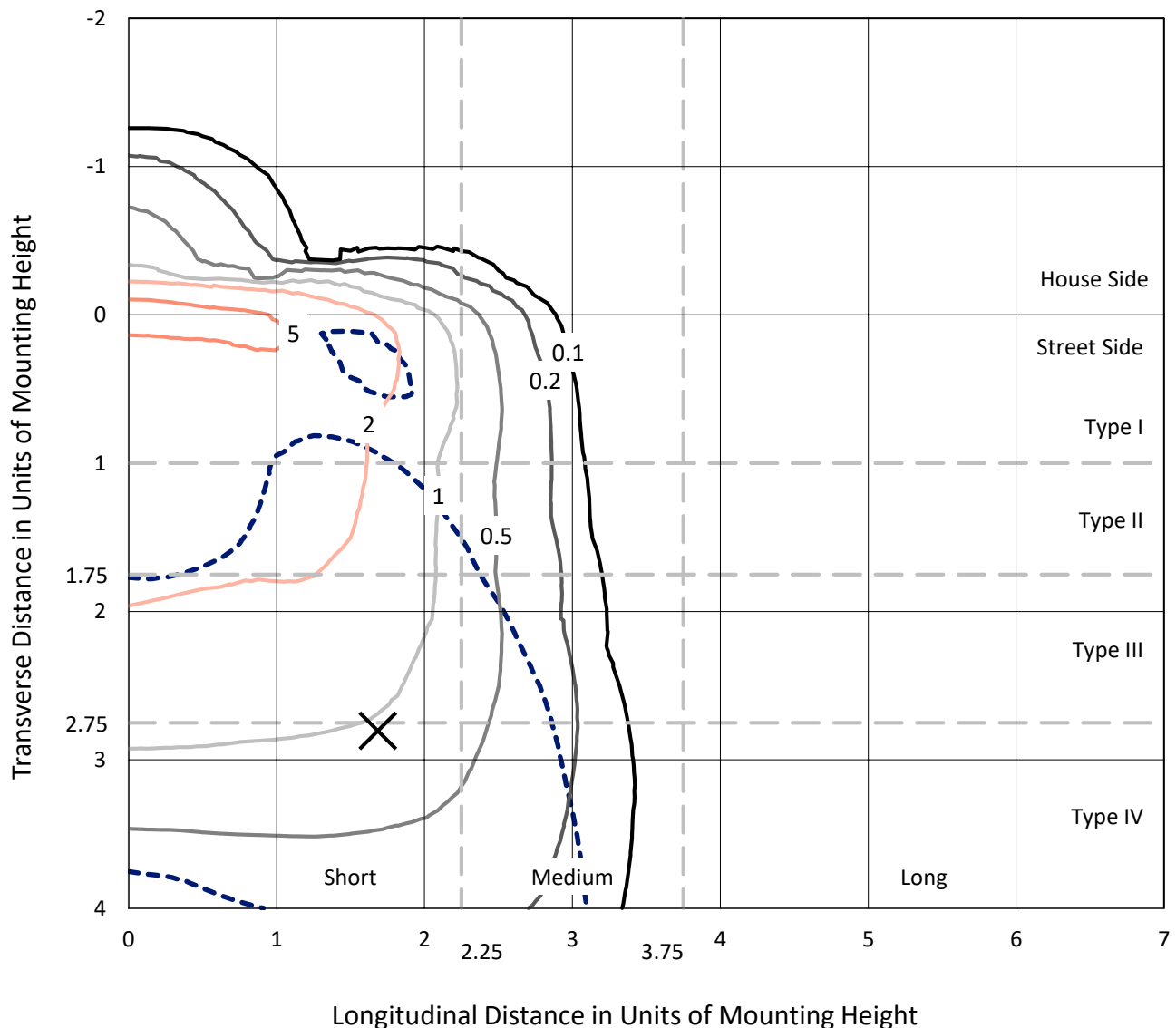
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

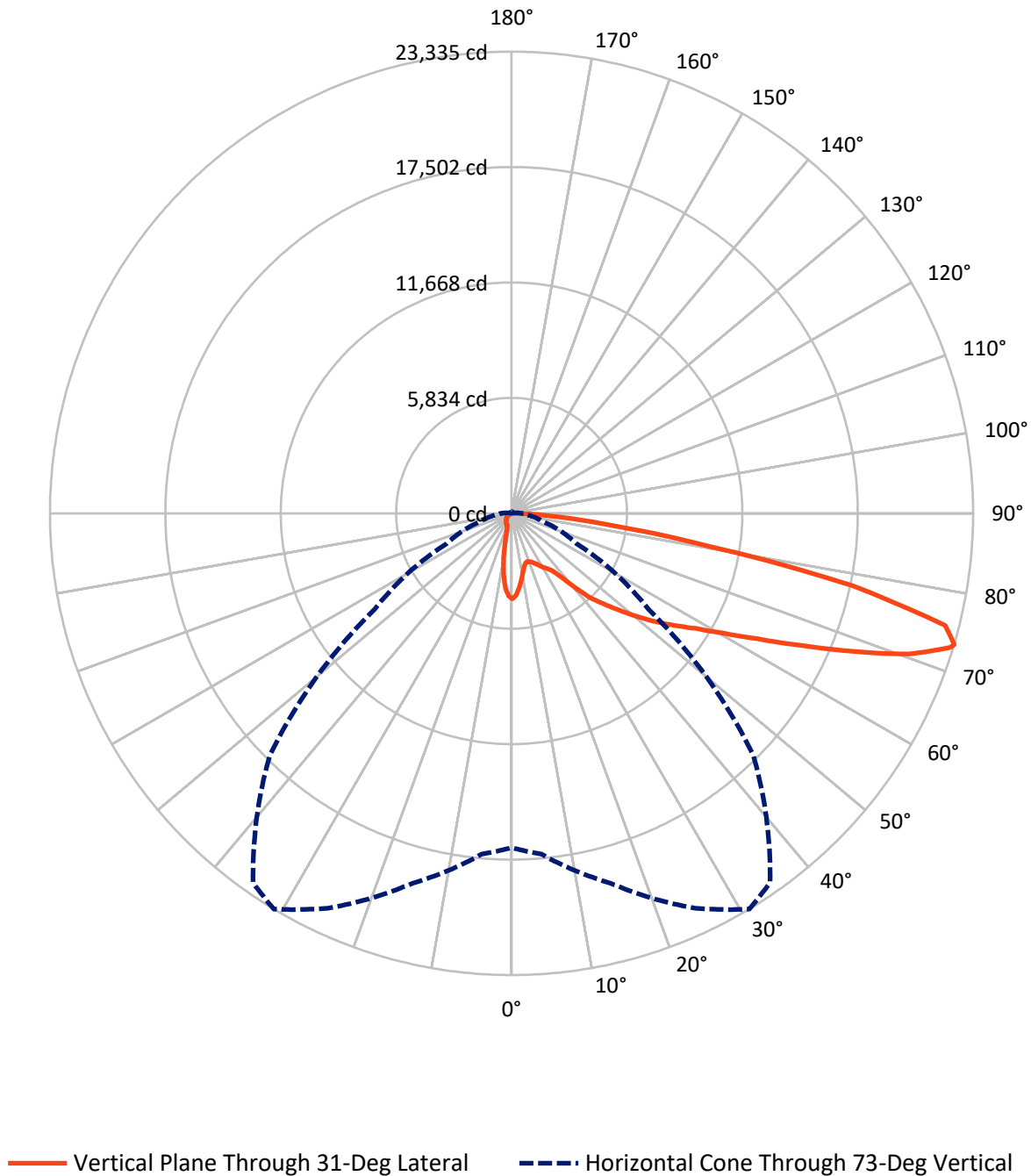
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	2288.3	0.0	2288.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	22815.7	0.0	22815.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	25104.0	0.0	25104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.1	1.4
10°-20°	777.6	3.1
20°-30°	1165.0	4.6
30°-40°	1853.6	7.4
40°-50°	3310.0	13.2
50°-60°	5136.2	20.5
60°-70°	6827.8	27.2
70°-80°	5135.9	20.5
80°-90°	539.7	2.1
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°	25104.0	100.0
0°-180°	25104.0	100.0

Coefficient of Utilization



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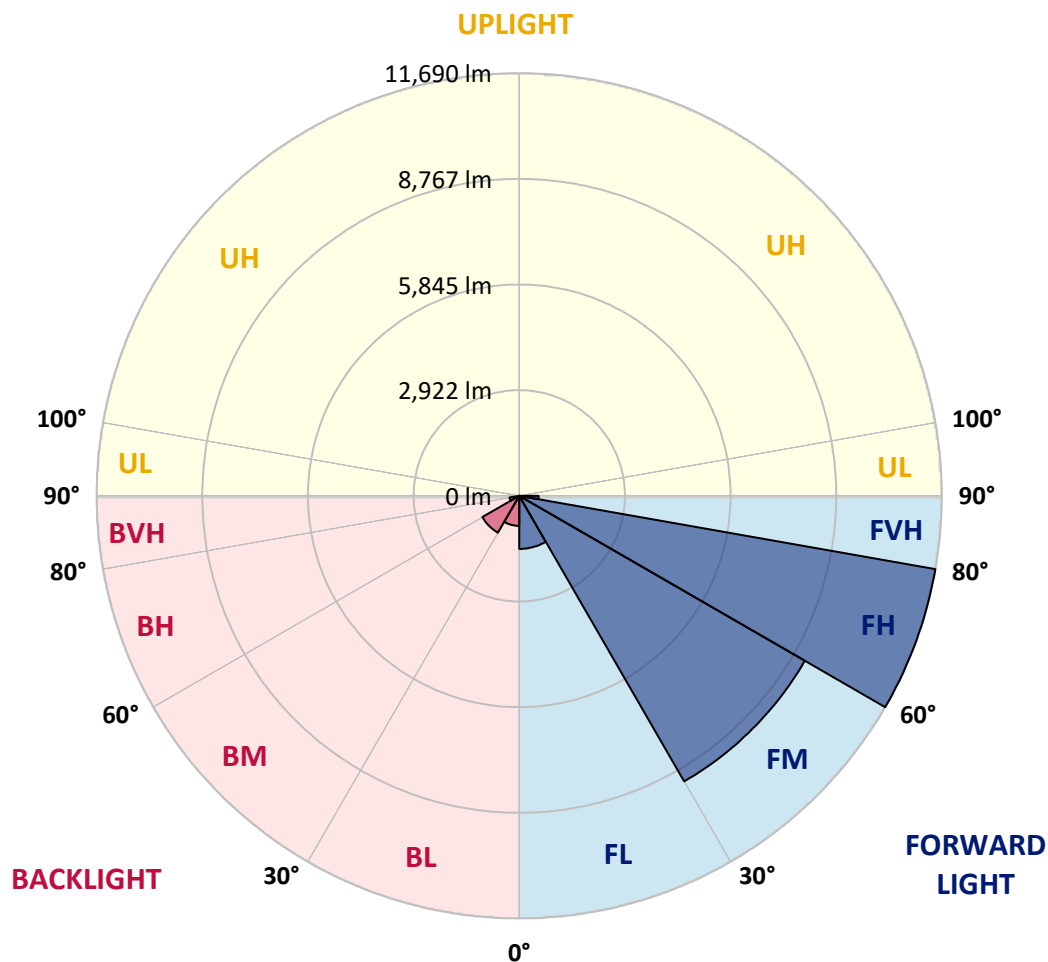
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.6	5.9			
FM	(30°-60°)	9121.9	36.3			
FH	(60°-80°)	11690.0	46.6			G4/12000
FVH	(80°-90°)	535.1	2.1			G4/750
BL	(0°-30°)	832.1	3.3	B2/1000		
BM	(30°-60°)	1177.9	4.7	B2/2500		
BH	(60°-80°)	273.8	1.1	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2
2.5°	4093.2	4110.4	4128.8	4132.5	4163.2	4164.4	4208.6	4241.8	4275.0	4306.9	4318.0
5°	3673.0	3701.3	3734.5	3767.6	3832.7	3858.5	3966.6	4077.2	4182.8	4283.6	4332.7
7.5°	3224.7	3256.6	3303.3	3385.6	3458.1	3508.4	3679.2	3875.7	4072.3	4257.8	4364.6
10°	2815.6	2845.1	2894.2	2981.4	3093.2	3162.0	3391.7	3664.4	3953.1	4234.4	4412.6
12.5°	2555.2	2571.1	2598.2	2691.5	2792.2	2869.6	3139.9	3477.7	3854.8	4233.2	4489.9
15°	2507.2	2512.2	2490.0	2531.8	2610.4	2685.4	2959.3	3326.6	3779.9	4252.9	4590.7
17.5°	2583.4	2581.0	2507.2	2502.3	2565.0	2626.4	2870.9	3222.2	3727.1	4298.3	4720.9
20°	2698.9	2690.3	2562.5	2539.2	2605.5	2663.3	2864.7	3182.9	3707.4	4374.5	4879.4
22.5°	2852.4	2837.7	2637.5	2612.9	2684.1	2744.3	2940.9	3221.0	3724.6	4476.4	5063.6
25°	3042.8	3020.7	2766.4	2739.4	2811.9	2872.1	3077.2	3330.3	3776.2	4600.5	5297.0
27.5°	3257.8	3225.9	2972.8	2902.8	2985.1	3047.8	3259.1	3497.4	3857.3	4732.0	5583.3
30°	3460.5	3418.7	3190.3	3074.8	3175.5	3245.5	3455.6	3696.4	3987.5	4934.6	5975.1
32.5°	3664.4	3617.8	3384.4	3246.8	3337.7	3413.8	3658.3	3970.3	4232.0	5244.2	6496.0
35°	4133.7	4084.6	3798.3	3571.1	3569.8	3612.8	3942.1	4345.0	4555.1	5675.4	7117.6
37.5°	4923.6	4895.3	4622.6	4191.4	4076.0	4028.1	4329.0	4792.1	5019.4	6268.7	7819.0
40°	5788.4	5763.8	5458.0	5067.3	4891.6	4773.7	4884.3	5415.0	5675.4	6993.5	8535.2
42.5°	6765.0	6648.3	6102.9	5986.2	5828.9	5739.3	5639.8	6182.7	6481.2	7782.2	9245.2
45°	7652.0	7455.4	6747.8	6570.9	6535.3	6557.4	6612.7	7214.6	7387.8	8719.5	9952.8
47.5°	8180.2	8025.4	7482.4	7312.9	7303.1	7449.3	7866.9	8380.4	8290.7	9536.4	10575.6
50°	8682.6	8542.6	8091.7	8133.5	8179.0	8378.0	9290.7	9579.4	9115.0	10277.1	11146.9
52.5°	9089.2	8875.5	8639.6	8874.2	9097.8	9418.4	10759.9	10655.5	9699.8	10866.8	11635.8
55°	9323.9	9226.8	9341.1	9576.9	9997.0	10517.9	12146.8	11551.0	10127.3	11404.8	11961.3
57.5°	10183.8	9993.4	10220.6	10424.5	10972.4	11700.9	13334.7	12218.1	10435.6	11737.7	12036.3
60°	11224.3	11070.7	11204.6	11543.6	12283.2	13139.4	14445.2	12762.3	10596.5	11951.5	11842.2
62.5°	12880.2	12677.5	12594.0	12973.6	13953.8	14888.7	15287.9	13139.4	10560.9	11856.9	11176.3
65°	15098.8	14888.7	14515.2	14859.2	16106.1	16765.7	16230.1	13219.2	10315.2	11091.6	9493.4
67.5°	17371.4	17219.0	16899.6	17479.5	18604.7	18817.2	17226.4	13025.1	9524.1	8993.4	6707.3
70°	18872.5	18807.4	19015.0	20297.5	21301.1	21239.7	18140.4	11982.2	7423.5	5530.4	3318.0
72.5°	17790.3	18102.3	19635.4	21960.8	23186.8	22685.6	17671.1	9201.0	4243.0	2127.7	959.4
73°	16893.5	17292.7	19356.5	22023.5	23335.4	22786.3	17276.8	8445.5	3616.5	1679.3	727.2
75°	11752.5	12242.6	16025.0	20511.3	22640.1	21710.2	14401.0	5169.3	1675.6	744.4	293.6
77.5°	5706.1	6068.5	8823.9	14819.9	17607.2	16962.3	8965.2	1926.2	756.7	465.6	135.1
80°	2130.1	2368.4	3830.3	7542.6	10175.2	10441.7	3943.3	728.5	503.7	374.7	68.8
82.5°	557.7	621.6	1412.7	3363.5	5214.7	5458.0	1243.2	367.3	368.5	308.3	41.8
85°	178.1	203.9	441.0	1509.8	2456.9	2157.1	324.3	178.1	267.8	229.7	23.3
87.5°	22.1	28.3	140.0	355.0	541.7	301.0	50.4	52.8	114.2	127.8	13.5
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°	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2	4319.2
2.5°	4329.0	4322.9	4324.1	4292.2	4271.3	4229.5	4186.5	4166.9	4146.0	4137.4	4146.0
5°	4351.1	4340.1	4308.1	4209.9	4105.4	3970.3	3843.8	3748.0	3627.6	3594.4	3628.8
7.5°	4385.5	4363.4	4270.1	4069.8	3837.6	3579.7	3289.8	3078.5	2905.3	2793.5	2834.0
10°	4435.9	4394.1	4206.2	3865.9	3450.7	2993.7	2582.2	2261.6	2034.3	1940.9	1937.2
12.5°	4520.7	4442.0	4127.6	3600.6	2977.7	2368.4	1829.1	1481.5	1297.2	1178.1	1175.6
15°	4614.0	4498.5	4028.1	3282.4	2427.4	1696.5	1178.1	914.0	794.8	756.7	751.8
17.5°	4728.3	4563.7	3899.1	2890.5	1851.3	1124.0	769.0	692.8	687.9	684.2	684.2
20°	4872.0	4641.0	3733.2	2442.1	1313.2	750.6	653.5	658.4	660.9	656.0	657.2
22.5°	5039.1	4719.7	3535.4	1960.6	888.2	627.7	625.3	631.4	633.9	631.4	632.6
25°	5233.2	4810.6	3294.7	1455.7	641.2	595.8	601.9	610.5	616.7	616.7	616.7
27.5°	5473.9	4921.1	3004.8	1015.9	554.0	562.6	579.8	595.8	604.4	606.8	606.8
30°	5787.2	5058.7	2657.1	696.5	503.7	518.4	550.3	581.1	597.0	599.5	600.7
32.5°	6182.7	5213.5	2254.2	514.7	460.7	471.7	506.1	557.7	588.4	593.3	593.3
35°	6636.0	5392.9	1820.5	448.4	430.0	433.6	460.7	519.6	573.7	587.2	588.4
37.5°	7132.3	5569.7	1384.5	418.9	404.2	404.2	423.8	474.2	538.1	579.8	584.7
40°	7595.4	5676.6	970.5	395.6	380.8	380.8	398.0	434.9	495.1	557.7	571.2
42.5°	8022.9	5713.5	675.6	373.4	358.7	362.4	377.1	406.6	452.1	514.7	527.0
45°	8462.7	5707.3	492.6	347.6	336.6	347.6	358.7	380.8	414.0	449.6	452.1
47.5°	8794.4	5655.7	390.6	323.1	315.7	330.5	340.3	355.0	373.4	371.0	371.0
50°	9105.2	5530.4	314.5	289.9	294.8	312.0	316.9	321.9	323.1	299.7	297.3
52.5°	9341.1	5335.1	251.8	254.3	273.9	291.1	286.2	278.9	266.6	238.3	233.4
55°	9419.7	4959.2	197.8	210.1	243.2	265.3	246.9	230.9	207.6	184.3	179.4
57.5°	9277.2	4474.0	160.9	163.4	205.1	223.6	202.7	184.3	158.5	138.8	135.1
60°	8975.0	3934.7	132.7	122.8	158.5	174.4	160.9	142.5	119.2	104.4	103.2
62.5°	8375.5	3359.8	109.3	95.8	120.4	133.9	125.3	111.8	92.1	82.3	81.1
65°	7115.1	2687.8	88.4	77.4	93.4	104.4	97.0	87.2	72.5	65.1	63.9
67.5°	4966.6	1816.9	72.5	63.9	73.7	82.3	76.2	71.2	57.7	56.5	57.7
70°	2395.5	875.9	60.2	51.6	57.7	63.9	61.4	57.7	55.3	63.9	73.7
72.5°	686.7	293.6	47.9	43.0	46.7	50.4	52.8	51.6	60.2	77.4	89.7
73°	528.2	237.1	45.5	40.5	44.2	49.1	51.6	50.4	61.4	78.6	89.7
75°	226.0	114.2	34.4	33.2	36.9	43.0	45.5	45.5	61.4	79.8	86.0
77.5°	102.0	61.4	22.1	25.8	31.9	34.4	38.1	38.1	49.1	61.4	61.4
80°	57.7	33.2	17.2	19.7	23.3	23.3	23.3	20.9	22.1	24.6	27.0
82.5°	36.9	22.1	13.5	16.0	14.7	12.3	9.8	9.8	8.6	9.8	12.3
85°	20.9	12.3	12.3	9.8	6.1	4.9	6.1	4.9	1.2	0.0	1.2
87.5°	12.3	7.4	3.7	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)