

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: P322659

Luminaire Tested: **GAN-SA5D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322659
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-SA5D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA 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: 27539 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

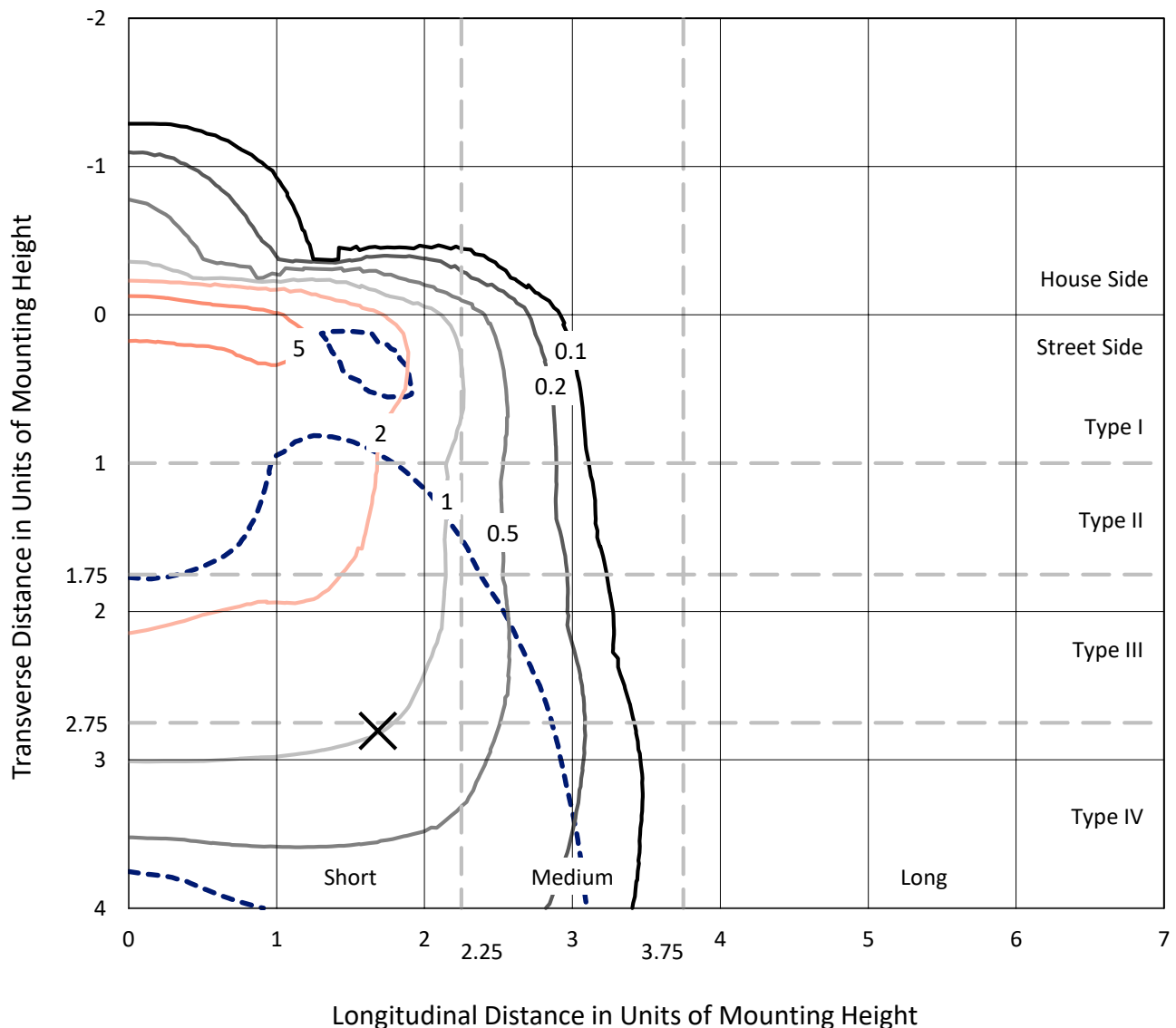
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

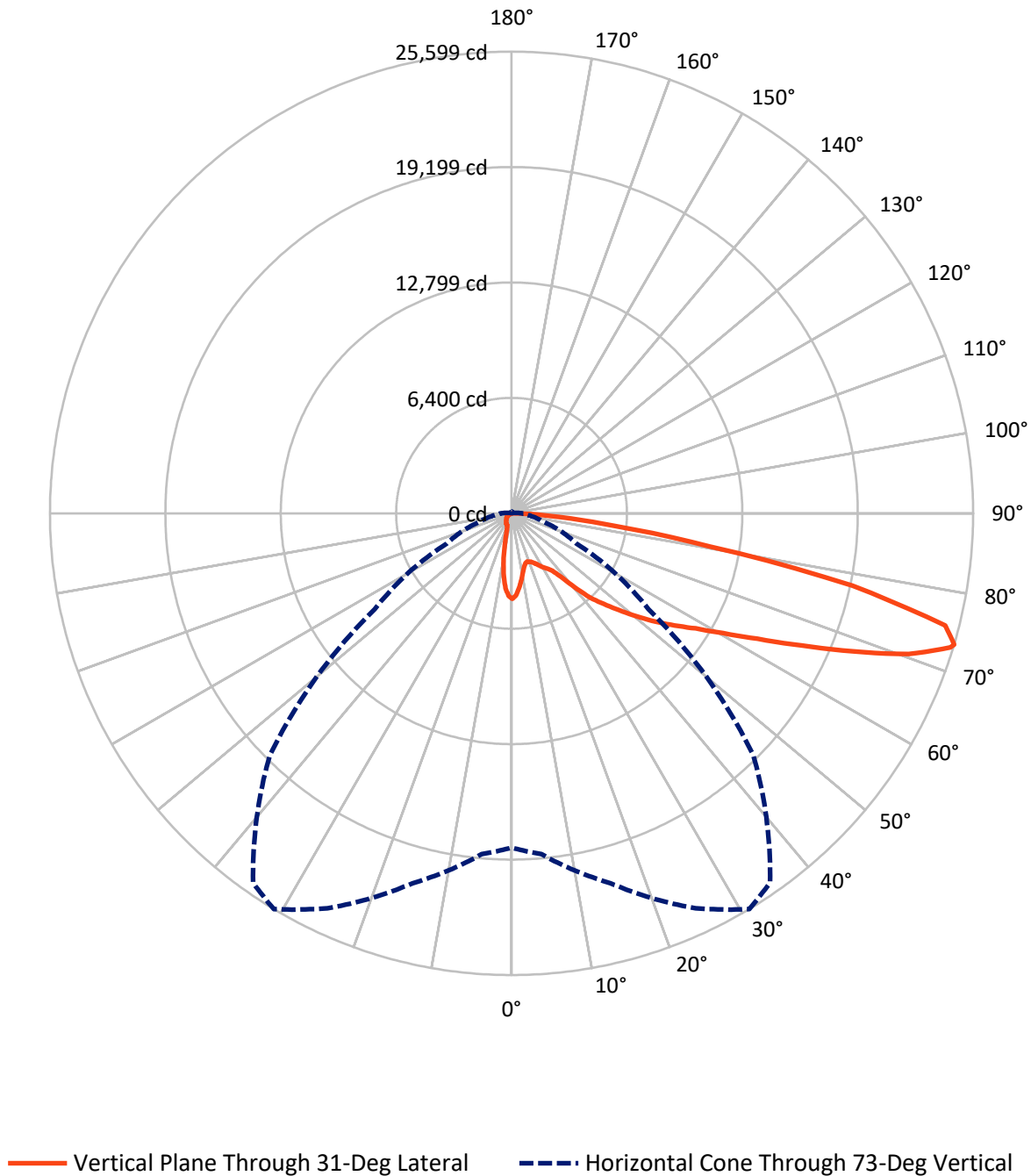
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2510.3	0.0	2510.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	25028.7	0.0	25028.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	27539.0	0.0	27539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.9	1.4
10°-20°	853.0	3.1
20°-30°	1278.1	4.6
30°-40°	2033.4	7.4
40°-50°	3631.1	13.2
50°-60°	5634.4	20.5
60°-70°	7490.1	27.2
70°-80°	5634.1	20.5
80°-90°	592.0	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°	27539.0	100.0
0°-180°	27539.0	100.0

Coefficient of Utilization



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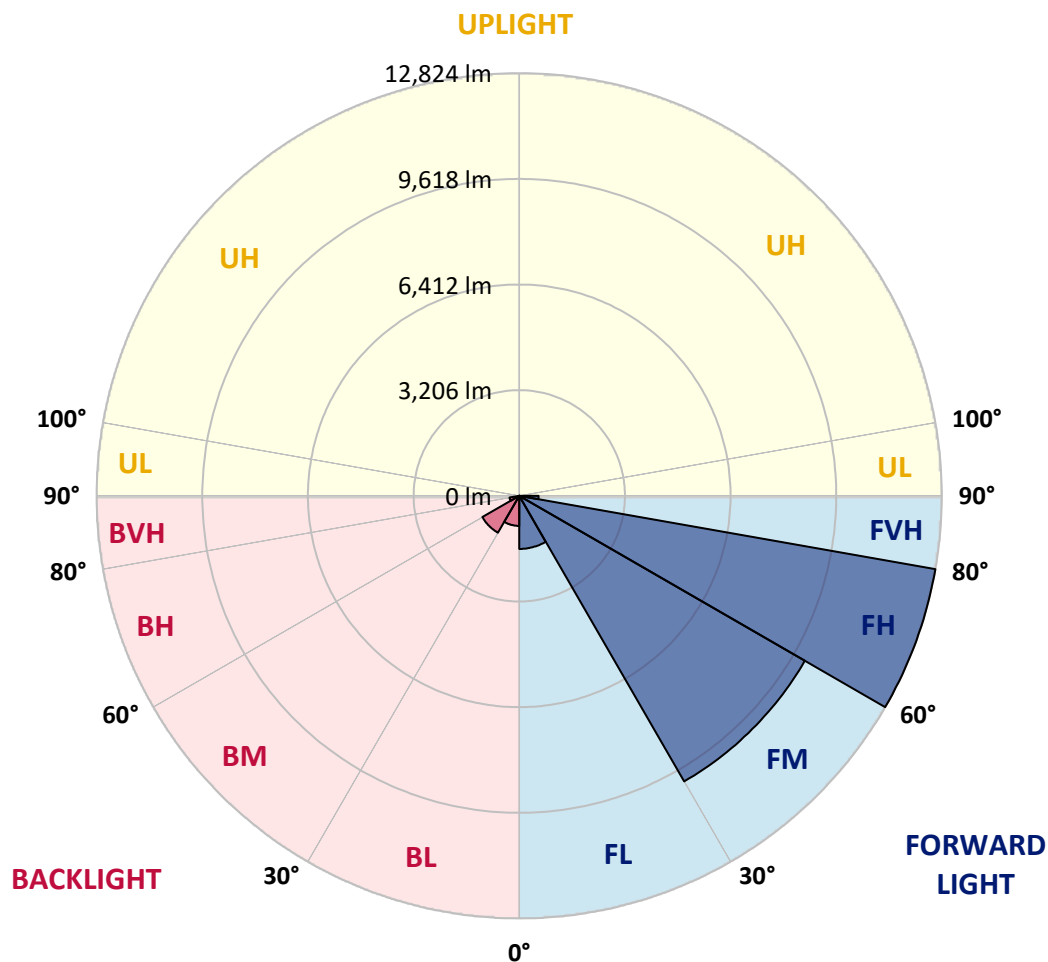
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.1	5.9			
FM	(30°-60°)	10006.7	36.3			
FH	(60°-80°)	12823.9	46.6			G5
FVH	(80°-90°)	587.0	2.1			G4/750
BL	(0°-30°)	912.8	3.3	B2/1000		
BM	(30°-60°)	1292.1	4.7	B2/2500		
BH	(60°-80°)	300.3	1.1	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1
2.5°	4490.2	4509.1	4529.3	4533.3	4567.0	4568.3	4616.9	4653.2	4689.6	4724.7	4736.8
5°	4029.3	4060.3	4096.7	4133.1	4204.5	4232.8	4351.4	4472.7	4588.6	4699.1	4753.0
7.5°	3537.4	3572.5	3623.7	3714.0	3793.5	3848.7	4036.0	4251.7	4467.3	4670.8	4788.0
10°	3088.7	3121.0	3174.9	3270.6	3393.2	3468.7	3720.7	4019.9	4336.6	4645.2	4840.6
12.5°	2803.0	2820.5	2850.2	2952.6	3063.1	3148.0	3444.5	3815.0	4228.8	4643.8	4925.5
15°	2750.4	2755.8	2731.6	2777.4	2863.6	2945.8	3246.4	3649.3	4146.5	4665.4	5036.0
17.5°	2834.0	2831.3	2750.4	2745.0	2813.8	2881.2	3149.3	3534.7	4088.6	4715.2	5178.8
20°	2960.7	2951.2	2811.1	2785.5	2858.2	2921.6	3142.6	3491.6	4067.0	4798.8	5352.6
22.5°	3129.1	3112.9	2893.3	2866.3	2944.5	3010.5	3226.1	3533.4	4085.9	4910.6	5554.8
25°	3338.0	3313.7	3034.8	3005.1	3084.6	3150.7	3375.7	3653.3	4142.5	5046.7	5810.8
27.5°	3573.8	3538.8	3261.2	3184.4	3274.7	3343.4	3575.2	3836.6	4231.4	5190.9	6124.8
30°	3796.2	3750.4	3499.7	3373.0	3483.5	3560.3	3790.8	4054.9	4374.3	5413.3	6554.7
32.5°	4019.9	3968.7	3712.6	3561.7	3661.4	3745.0	4013.1	4355.4	4642.5	5752.9	7126.1
35°	4534.7	4480.8	4166.8	3917.5	3916.1	3963.3	4324.4	4766.4	4996.9	6225.9	7808.0
37.5°	5401.2	5370.2	5071.0	4598.0	4471.3	4418.8	4748.9	5257.0	5506.3	6876.8	8577.4
40°	6349.9	6322.9	5987.4	5558.8	5366.1	5236.8	5358.0	5940.2	6225.9	7671.9	9363.1
42.5°	7421.2	7293.2	6694.8	6566.8	6394.3	6296.0	6186.8	6782.4	7109.9	8537.0	10142.0
45°	8394.2	8178.5	7402.3	7208.3	7169.2	7193.5	7254.1	7914.4	8104.4	9565.2	10918.2
47.5°	8973.6	8803.8	8208.2	8022.2	8011.4	8171.8	8630.0	9193.3	9094.9	10461.4	11601.4
50°	9524.8	9371.2	8876.6	8922.4	8972.3	9190.6	10191.9	10508.5	9999.1	11274.0	12228.1
52.5°	9970.8	9736.4	9477.6	9735.0	9980.3	10332.0	11803.6	11689.0	10640.6	11920.8	12764.4
55°	10228.2	10121.8	10247.1	10505.8	10966.7	11538.1	13325.0	12671.4	11109.6	12511.1	13121.5
57.5°	11171.6	10962.7	11212.0	11435.7	12036.7	12835.8	14628.1	13403.2	11447.8	12876.3	13203.7
60°	12313.0	12144.5	12291.4	12663.3	13474.6	14413.9	15846.4	14000.2	11624.3	13110.7	12990.8
62.5°	14129.5	13907.2	13815.5	14231.9	15307.3	16332.8	16770.8	14413.9	11585.3	13007.0	12260.4
65°	16563.3	16332.8	15923.2	16300.5	17668.3	18392.0	17804.4	14501.5	11315.7	12167.4	10414.2
67.5°	19056.3	18889.2	18538.9	19174.9	20409.3	20642.4	18897.3	14288.5	10447.9	9865.7	7357.9
70°	20703.1	20631.7	20859.4	22266.3	23367.3	23299.9	19899.9	13144.4	8143.5	6066.9	3639.9
72.5°	19515.9	19858.1	21539.9	24090.9	25435.8	24886.0	19385.1	10093.5	4654.6	2334.0	1052.5
73°	18532.1	18970.1	21234.0	24159.7	25598.9	24996.5	18952.6	9264.7	3967.3	1842.2	797.8
75°	12892.4	13430.1	17579.4	22500.8	24836.2	23816.0	15797.8	5670.7	1838.1	816.6	322.1
77.5°	6259.6	6657.1	9679.8	16257.4	19315.1	18607.6	9834.7	2113.0	830.1	510.7	148.2
80°	2336.7	2598.2	4201.8	8274.2	11162.1	11454.6	4325.8	799.1	552.5	411.0	75.5
82.5°	611.8	681.9	1549.7	3689.7	5720.5	5987.4	1363.8	402.9	404.3	338.2	45.8
85°	195.4	223.7	483.8	1656.2	2695.2	2366.4	355.8	195.4	293.8	252.0	25.6
87.5°	24.3	31.0	153.6	389.5	594.3	330.2	55.3	57.9	125.3	140.1	14.8
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°	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1	4738.1
2.5°	4748.9	4742.2	4743.5	4708.5	4685.6	4639.8	4592.6	4571.0	4548.1	4538.7	4548.1
5°	4773.2	4761.1	4726.0	4618.2	4503.7	4355.4	4216.6	4111.5	3979.4	3943.1	3980.8
7.5°	4810.9	4786.7	4684.2	4464.6	4209.9	3926.9	3608.9	3377.1	3187.1	3064.4	3108.9
10°	4866.2	4820.3	4614.2	4240.9	3785.4	3284.1	2832.6	2480.9	2231.6	2129.2	2125.2
12.5°	4959.1	4872.9	4527.9	3949.8	3266.6	2598.2	2006.6	1625.2	1423.1	1292.3	1289.6
15°	5061.6	4934.9	4418.8	3600.8	2662.8	1861.0	1292.3	1002.6	871.9	830.1	824.7
17.5°	5186.9	5006.3	4277.3	3170.9	2030.8	1233.0	843.6	760.0	754.7	750.6	750.6
20°	5344.6	5091.2	4095.3	2679.0	1440.6	823.4	716.9	722.3	725.0	719.6	721.0
22.5°	5527.8	5177.5	3878.4	2150.8	974.3	688.6	685.9	692.7	695.4	692.7	694.0
25°	5740.8	5277.2	3614.2	1596.9	703.4	653.6	660.3	669.8	676.5	676.5	676.5
27.5°	6004.9	5398.5	3296.2	1114.5	607.8	617.2	636.1	653.6	663.0	665.7	665.7
30°	6348.5	5549.4	2914.8	764.1	552.5	568.7	603.7	637.4	654.9	657.6	659.0
32.5°	6782.4	5719.2	2472.8	564.6	505.3	517.5	555.2	611.8	645.5	650.9	650.9
35°	7279.7	5915.9	1997.1	491.9	471.7	475.7	505.3	570.0	629.3	644.2	645.5
37.5°	7824.1	6110.0	1518.7	459.5	443.4	443.4	464.9	520.2	590.2	636.1	641.5
40°	8332.2	6227.2	1064.6	433.9	417.8	417.8	436.6	477.0	543.1	611.8	626.6
42.5°	8801.1	6267.7	741.2	409.7	393.5	397.5	413.7	446.1	495.9	564.6	578.1
45°	9283.6	6260.9	540.4	381.4	369.2	381.4	393.5	417.8	454.1	493.2	495.9
47.5°	9647.4	6204.3	428.5	354.4	346.3	362.5	373.3	389.5	409.7	407.0	407.0
50°	9988.4	6066.9	345.0	318.0	323.4	342.3	347.7	353.1	354.4	328.8	326.1
52.5°	10247.1	5852.6	276.3	279.0	300.5	319.4	314.0	305.9	292.4	261.4	256.0
55°	10333.4	5440.2	217.0	230.4	266.8	291.1	270.9	253.3	227.7	202.1	196.7
57.5°	10177.0	4907.9	176.5	179.2	225.0	245.3	222.4	202.1	173.8	152.3	148.2
60°	9845.5	4316.3	145.5	134.8	173.8	191.4	176.5	156.3	130.7	114.5	113.2
62.5°	9187.9	3685.7	119.9	105.1	132.1	146.9	137.5	122.6	101.1	90.3	88.9
65°	7805.3	2948.5	97.0	84.9	102.4	114.5	106.5	95.7	79.5	71.4	70.1
67.5°	5448.3	1993.1	79.5	70.1	80.9	90.3	83.6	78.2	63.3	62.0	63.3
70°	2627.8	960.8	66.0	56.6	63.3	70.1	67.4	63.3	60.6	70.1	80.9
72.5°	753.3	322.1	52.6	47.2	51.2	55.3	57.9	56.6	66.0	84.9	98.4
73°	579.5	260.1	49.9	44.5	48.5	53.9	56.6	55.3	67.4	86.2	98.4
75°	248.0	125.3	37.7	36.4	40.4	47.2	49.9	49.9	67.4	87.6	94.3
77.5°	111.9	67.4	24.3	28.3	35.0	37.7	41.8	41.8	53.9	67.4	67.4
80°	63.3	36.4	18.9	21.6	25.6	25.6	25.6	22.9	24.3	27.0	29.6
82.5°	40.4	24.3	14.8	17.5	16.2	13.5	10.8	10.8	9.4	10.8	13.5
85°	22.9	13.5	13.5	10.8	6.7	5.4	6.7	5.4	1.3	0.0	1.3
87.5°	13.5	8.1	4.0	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)