

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: P322634

Luminaire Tested: **GAN-SA0A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322634
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-SA0A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA 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: 32757 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

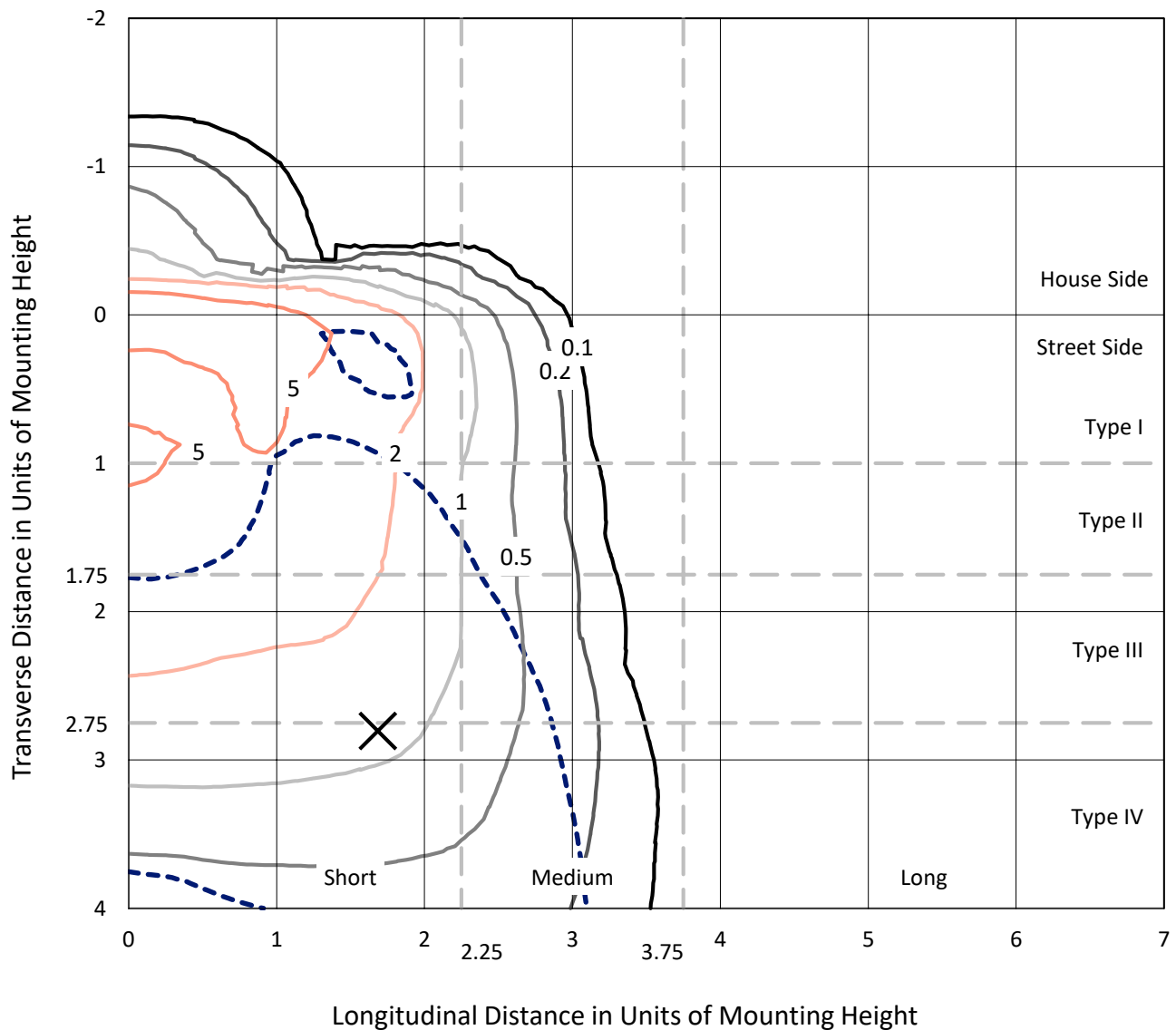
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

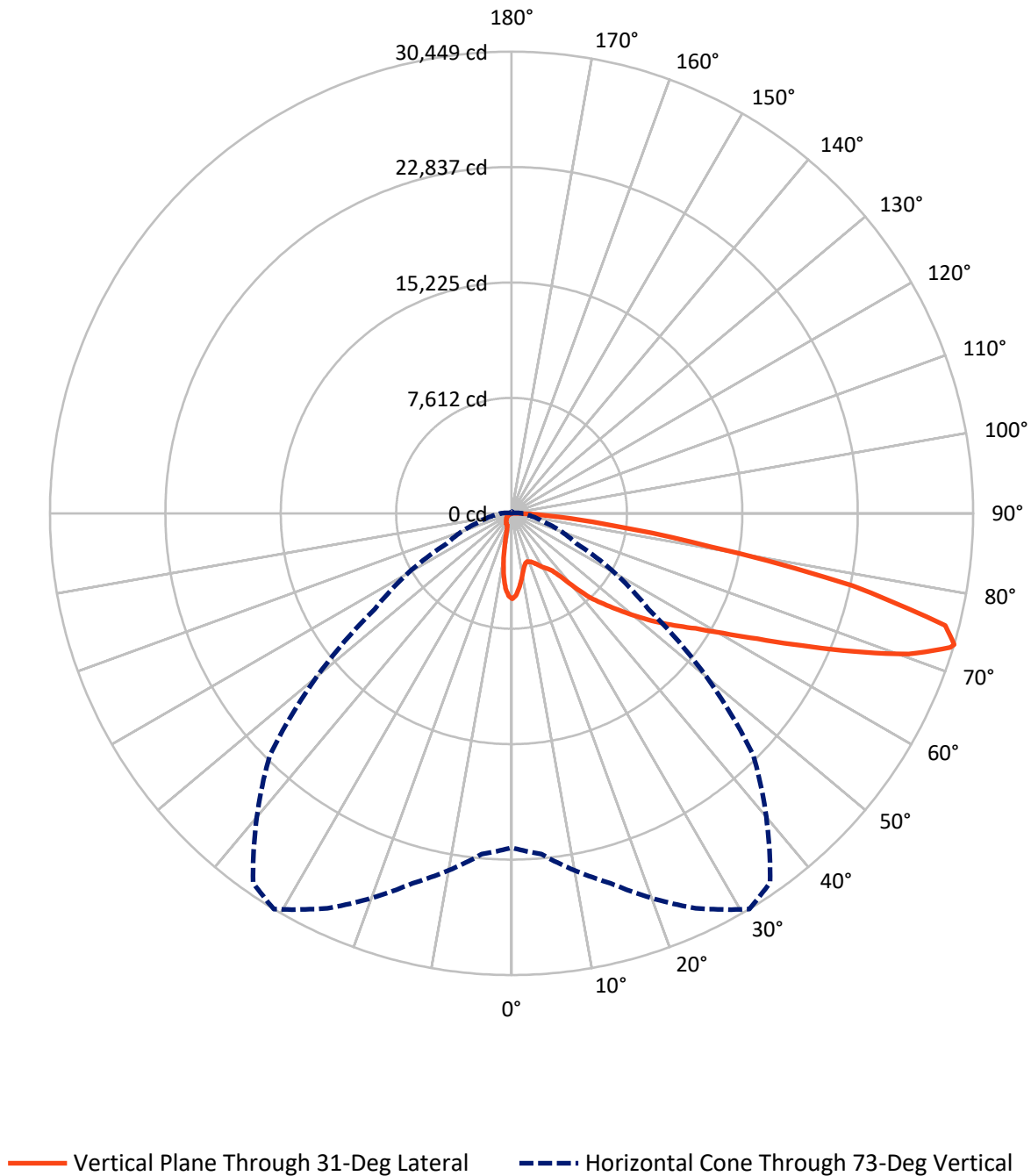
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2985.9	0.0	2985.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	29771.1	0.0	29771.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	32757.0	0.0	32757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.3	1.4
10°-20°	1014.6	3.1
20°-30°	1520.2	4.6
30°-40°	2418.7	7.4
40°-50°	4319.1	13.2
50°-60°	6702.0	20.5
60°-70°	8909.3	27.2
70°-80°	6701.6	20.5
80°-90°	704.2	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°	32757.0	100.0
0°-180°	32757.0	100.0

Coefficient of Utilization



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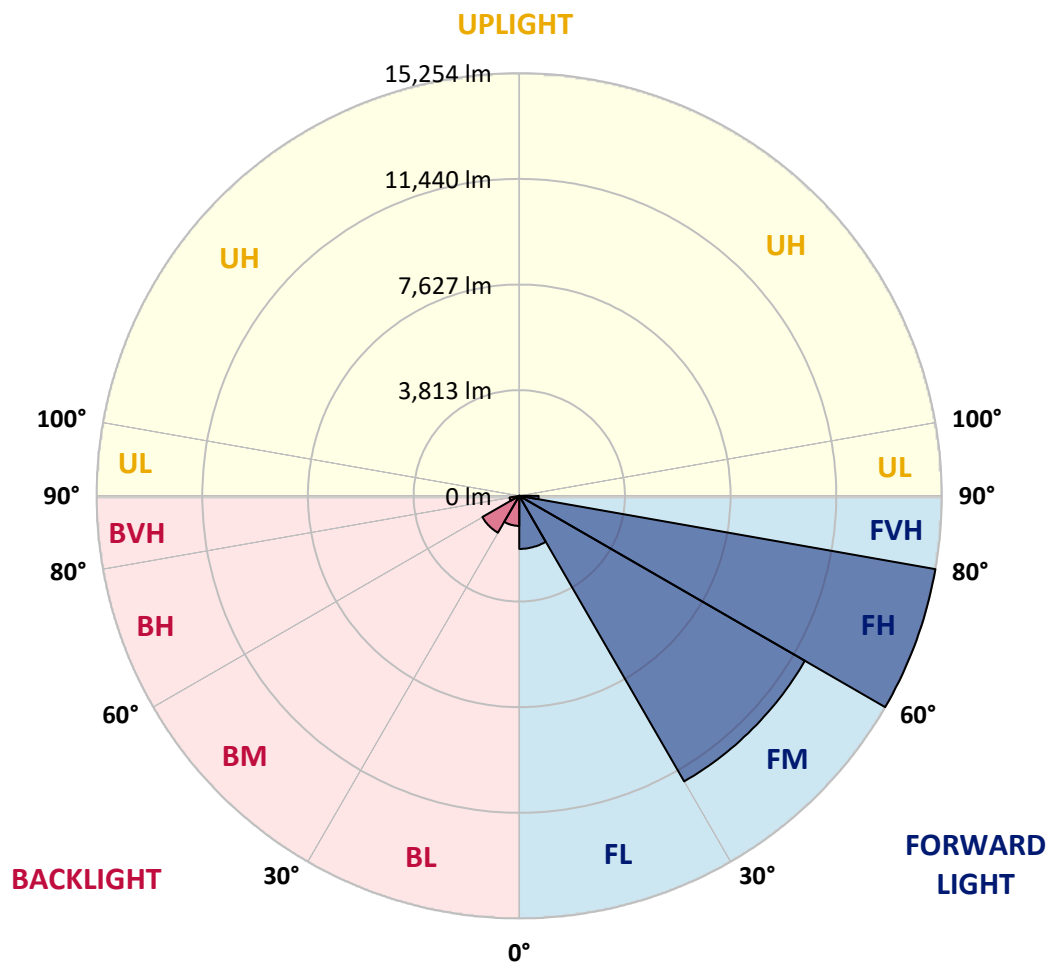
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1916.3	5.9			
FM	(30°-60°)	11902.8	36.3			
FH	(60°-80°)	15253.7	46.6			G5
FVH	(80°-90°)	698.3	2.1			G4/750
BL	(0°-30°)	1085.8	3.3	B3/2500		
BM	(30°-60°)	1536.9	4.7	B2/2500		
BH	(60°-80°)	357.2	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9
2.5°	5341.0	5363.4	5387.5	5392.3	5432.3	5433.9	5491.6	5534.9	5578.2	5619.9	5634.3
5°	4792.8	4829.6	4872.9	4916.2	5001.1	5034.8	5175.9	5320.1	5458.0	5589.4	5653.5
7.5°	4207.7	4249.4	4310.3	4417.7	4512.3	4578.0	4800.8	5057.3	5313.7	5555.8	5695.2
10°	3673.9	3712.4	3776.5	3890.3	4036.2	4125.9	4425.7	4781.5	5158.2	5525.3	5757.7
12.5°	3334.1	3354.9	3390.2	3512.0	3643.5	3744.4	4097.1	4537.9	5030.0	5523.7	5858.7
15°	3271.6	3278.0	3249.1	3303.6	3406.2	3504.0	3861.5	4340.7	4932.2	5549.4	5990.2
17.5°	3371.0	3367.8	3271.6	3265.2	3346.9	3427.1	3746.1	4204.5	4863.3	5608.7	6160.1
20°	3521.6	3510.4	3343.7	3313.3	3399.8	3475.2	3738.0	4153.2	4837.6	5708.0	6366.8
22.5°	3722.0	3702.8	3441.5	3409.4	3502.4	3581.0	3837.4	4202.9	4860.1	5841.1	6607.3
25°	3970.5	3941.6	3609.8	3574.5	3669.1	3747.7	4015.3	4345.5	4927.4	6003.0	6911.8
27.5°	4251.0	4209.3	3879.1	3787.7	3895.1	3976.9	4252.6	4563.5	5033.2	6174.5	7285.3
30°	4515.5	4461.0	4162.8	4012.1	4143.6	4234.9	4509.0	4823.2	5203.1	6439.0	7796.7
32.5°	4781.5	4720.6	4416.1	4236.5	4355.2	4454.5	4773.5	5180.7	5522.1	6842.9	8476.3
35°	5393.9	5329.7	4956.3	4659.7	4658.1	4714.2	5143.8	5669.6	5943.7	7405.5	9287.4
37.5°	6424.6	6387.7	6031.8	5469.2	5318.5	5256.0	5648.7	6253.0	6549.6	8179.8	10202.7
40°	7553.0	7521.0	7121.8	6612.1	6382.9	6229.0	6373.3	7065.7	7405.5	9125.5	11137.2
42.5°	8827.3	8675.1	7963.4	7811.1	7605.9	7488.9	7359.1	8067.6	8457.1	10154.6	12063.7
45°	9984.7	9728.2	8804.9	8574.1	8527.6	8556.5	8628.6	9414.0	9640.0	11377.6	12987.0
47.5°	10673.9	10472.0	9763.5	9542.3	9529.4	9720.2	10265.2	10935.2	10818.2	12443.6	13799.6
50°	11329.5	11146.8	10558.5	10613.0	10672.3	10932.0	12123.0	12499.7	11893.8	13410.1	14545.0
52.5°	11860.1	11581.2	11273.4	11579.6	11871.3	12289.7	14040.1	13903.8	12656.8	14179.5	15183.0
55°	12166.3	12039.6	12188.7	12496.5	13044.7	13724.3	15849.8	15072.4	13214.6	14881.6	15607.7
57.5°	13288.3	13039.9	13336.4	13602.5	14317.4	15267.9	17399.8	15942.8	13616.9	15316.0	15705.5
60°	14646.0	14445.6	14620.3	15062.8	16027.7	17145.0	18848.9	16652.9	13826.9	15594.9	15452.3
62.5°	16806.7	16542.3	16433.3	16928.6	18207.7	19427.5	19948.5	17145.0	13780.4	15471.5	14583.5
65°	19701.6	19427.5	18940.2	19389.1	21016.0	21876.8	21177.9	17249.2	13459.8	14472.9	12387.5
67.5°	22667.1	22468.3	22051.5	22808.1	24276.4	24553.7	22477.9	16995.9	12427.5	11735.1	8752.0
70°	24625.8	24540.9	24811.8	26485.2	27794.8	27714.7	23670.5	15635.0	9686.5	7216.4	4329.5
72.5°	23213.7	23620.8	25621.3	28655.6	30255.3	29601.3	23058.2	12006.0	5536.5	2776.3	1251.9
73°	22043.5	22564.5	25257.4	28737.4	30449.3	29732.8	22543.6	11020.2	4719.0	2191.2	948.9
75°	15335.3	15974.8	20910.2	26764.2	29542.0	28328.6	18791.2	6745.1	2186.4	971.4	383.1
77.5°	7445.6	7918.5	11513.9	19337.8	22974.8	22133.3	11698.2	2513.4	987.4	607.5	176.3
80°	2779.5	3090.5	4997.9	9842.0	13277.1	13624.9	5145.4	950.5	657.2	488.9	89.8
82.5°	727.7	811.1	1843.4	4388.8	6804.4	7121.8	1622.2	479.3	480.9	402.3	54.5
85°	232.4	266.1	575.5	1970.0	3205.9	2814.7	423.2	232.4	349.4	299.7	30.5
87.5°	28.9	36.9	182.7	463.2	706.9	392.7	65.7	68.9	149.1	166.7	17.6
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°	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9	5635.9
2.5°	5648.7	5640.7	5642.3	5600.6	5573.4	5518.9	5462.8	5437.1	5409.9	5398.7	5409.9
5°	5677.6	5663.2	5621.5	5493.2	5357.0	5180.7	5015.6	4890.5	4733.5	4690.2	4735.1
7.5°	5722.5	5693.6	5571.8	5310.5	5007.6	4670.9	4292.7	4016.9	3790.9	3645.1	3698.0
10°	5788.2	5733.7	5488.4	5044.4	4502.6	3906.3	3369.4	2951.0	2654.5	2532.6	2527.8
12.5°	5898.8	5796.2	5385.9	4698.2	3885.5	3090.5	2386.8	1933.1	1692.7	1537.2	1534.0
15°	6020.6	5869.9	5256.0	4283.0	3167.4	2213.6	1537.2	1192.6	1037.1	987.4	981.0
17.5°	6169.7	5954.9	5087.7	3771.7	2415.6	1466.7	1003.4	904.1	897.6	892.8	892.8
20°	6357.2	6055.9	4871.3	3186.6	1713.5	979.4	852.8	859.2	862.4	856.0	857.6
22.5°	6575.2	6158.5	4613.2	2558.3	1158.9	819.1	815.9	823.9	827.1	823.9	825.5
25°	6828.5	6277.1	4299.1	1899.5	836.7	777.4	785.4	796.7	804.7	804.7	804.7
27.5°	7142.7	6421.3	3920.8	1325.6	722.9	734.1	756.6	777.4	788.6	791.8	791.8
30°	7551.4	6600.9	3467.1	908.9	657.2	676.4	718.1	758.2	779.0	782.2	783.8
32.5°	8067.6	6802.8	2941.4	671.6	601.1	615.5	660.4	727.7	767.8	774.2	774.2
35°	8659.0	7036.9	2375.5	585.1	561.0	565.8	601.1	678.0	748.6	766.2	767.8
37.5°	9306.6	7267.7	1806.5	546.6	527.4	527.4	553.0	618.7	702.1	756.6	763.0
40°	9910.9	7407.1	1266.3	516.1	496.9	496.9	519.3	567.4	646.0	727.7	745.4
42.5°	10468.7	7455.2	881.6	487.3	468.1	472.9	492.1	530.6	589.9	671.6	687.7
45°	11042.6	7447.2	642.8	453.6	439.2	453.6	468.1	496.9	540.2	586.7	589.9
47.5°	11475.4	7379.9	509.7	421.6	412.0	431.2	444.0	463.2	487.3	484.1	484.1
50°	11880.9	7216.4	410.4	378.3	384.7	407.1	413.6	420.0	421.6	391.1	387.9
52.5°	12188.7	6961.5	328.6	331.8	357.5	379.9	373.5	363.9	347.8	311.0	304.6
55°	12291.3	6471.0	258.1	274.1	317.4	346.2	322.2	301.4	270.9	240.4	234.0
57.5°	12105.3	5837.9	210.0	213.2	267.7	291.7	264.5	240.4	206.8	181.1	176.3
60°	11711.0	5134.2	173.1	160.3	206.8	227.6	210.0	185.9	155.5	136.2	134.6
62.5°	10928.8	4384.0	142.7	125.0	157.1	174.7	163.5	145.9	120.2	107.4	105.8
65°	9284.2	3507.2	115.4	101.0	121.8	136.2	126.6	113.8	94.6	85.0	83.4
67.5°	6480.7	2370.7	94.6	83.4	96.2	107.4	99.4	93.0	75.3	73.7	75.3
70°	3125.7	1142.9	78.5	67.3	75.3	83.4	80.1	75.3	72.1	83.4	96.2
72.5°	896.0	383.1	62.5	56.1	60.9	65.7	68.9	67.3	78.5	101.0	117.0
73°	689.3	309.4	59.3	52.9	57.7	64.1	67.3	65.7	80.1	102.6	117.0
75°	294.9	149.1	44.9	43.3	48.1	56.1	59.3	59.3	80.1	104.2	112.2
77.5°	133.0	80.1	28.9	33.7	41.7	44.9	49.7	49.7	64.1	80.1	80.1
80°	75.3	43.3	22.4	25.6	30.5	30.5	30.5	27.2	28.9	32.1	35.3
82.5°	48.1	28.9	17.6	20.8	19.2	16.0	12.8	12.8	11.2	12.8	16.0
85°	27.2	16.0	16.0	12.8	8.0	6.4	8.0	6.4	1.6	0.0	1.6
87.5°	16.0	9.6	4.8	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)