

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: P322723

Luminaire Tested: **GAN-SA9B-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322723
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-SA9B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA 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: 28830 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

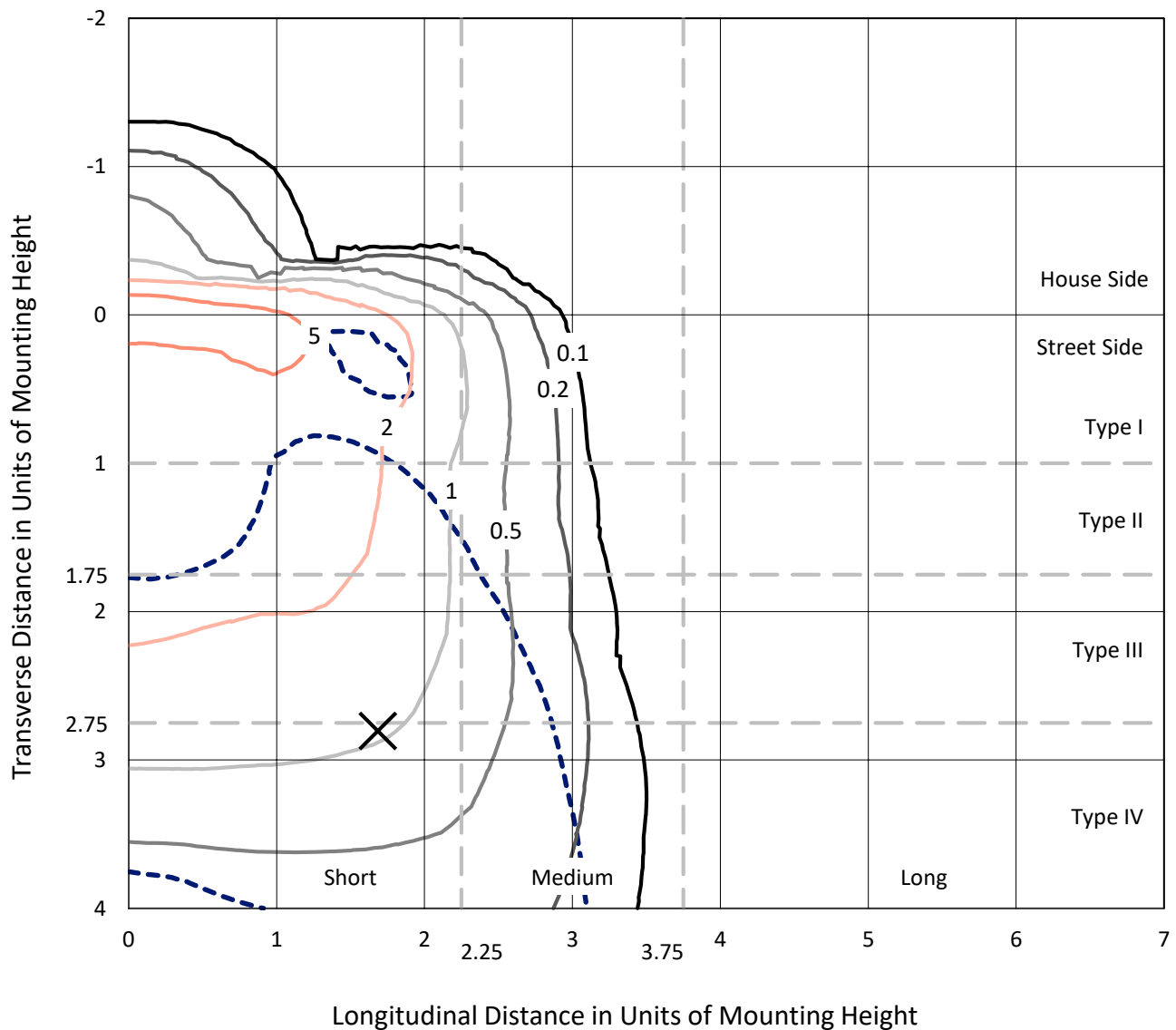
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

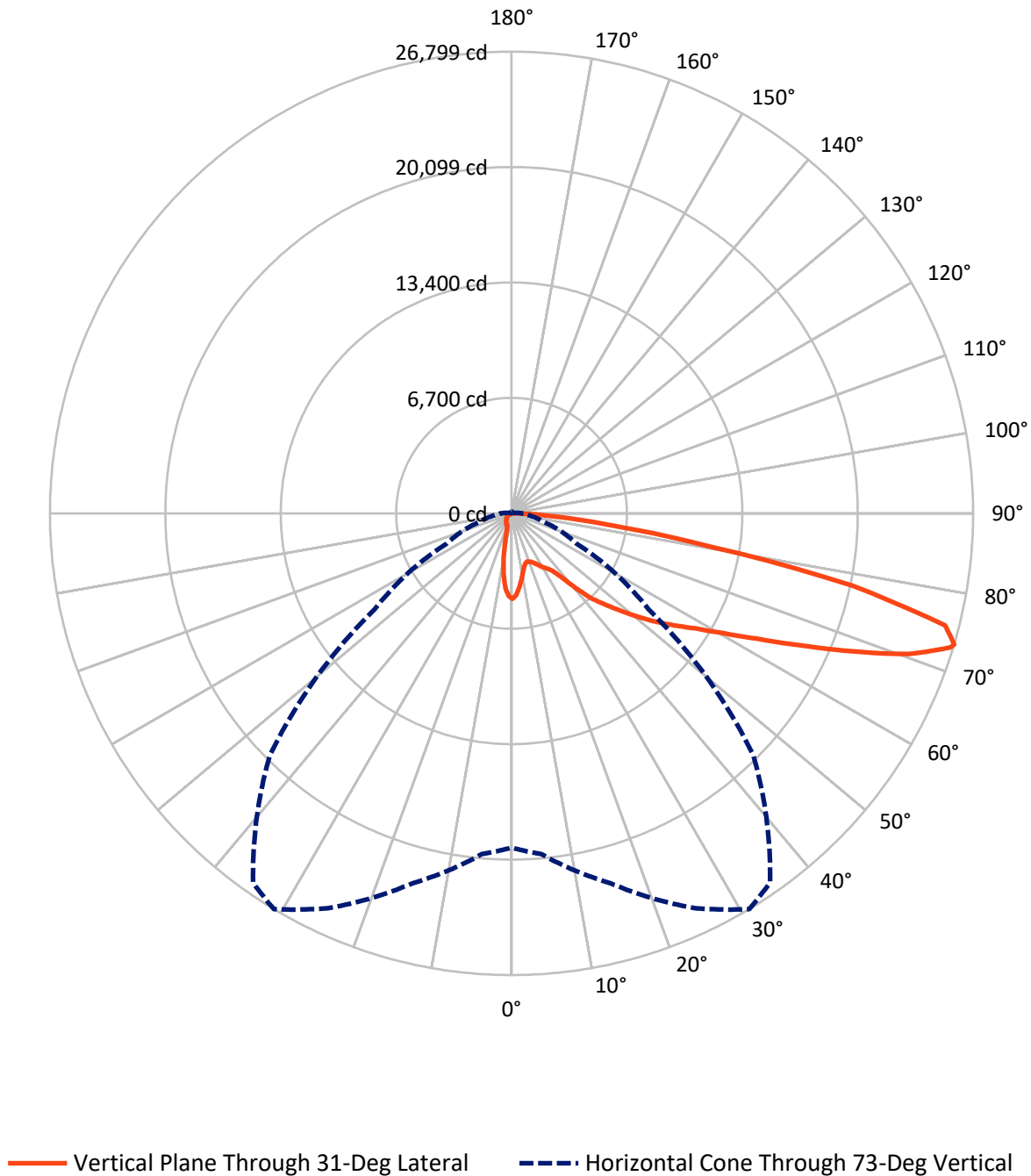
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	2628.0	0.0	2628.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	26202.0	0.0	26202.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	28830.0	0.0	28830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.3	1.4
10°-20°	893.0	3.1
20°-30°	1338.0	4.6
30°-40°	2128.7	7.4
40°-50°	3801.3	13.2
50°-60°	5898.5	20.5
60°-70°	7841.3	27.2
70°-80°	5898.2	20.5
80°-90°	619.8	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°	28830.0	100.0
0°-180°	28830.0	100.0

Coefficient of Utilization



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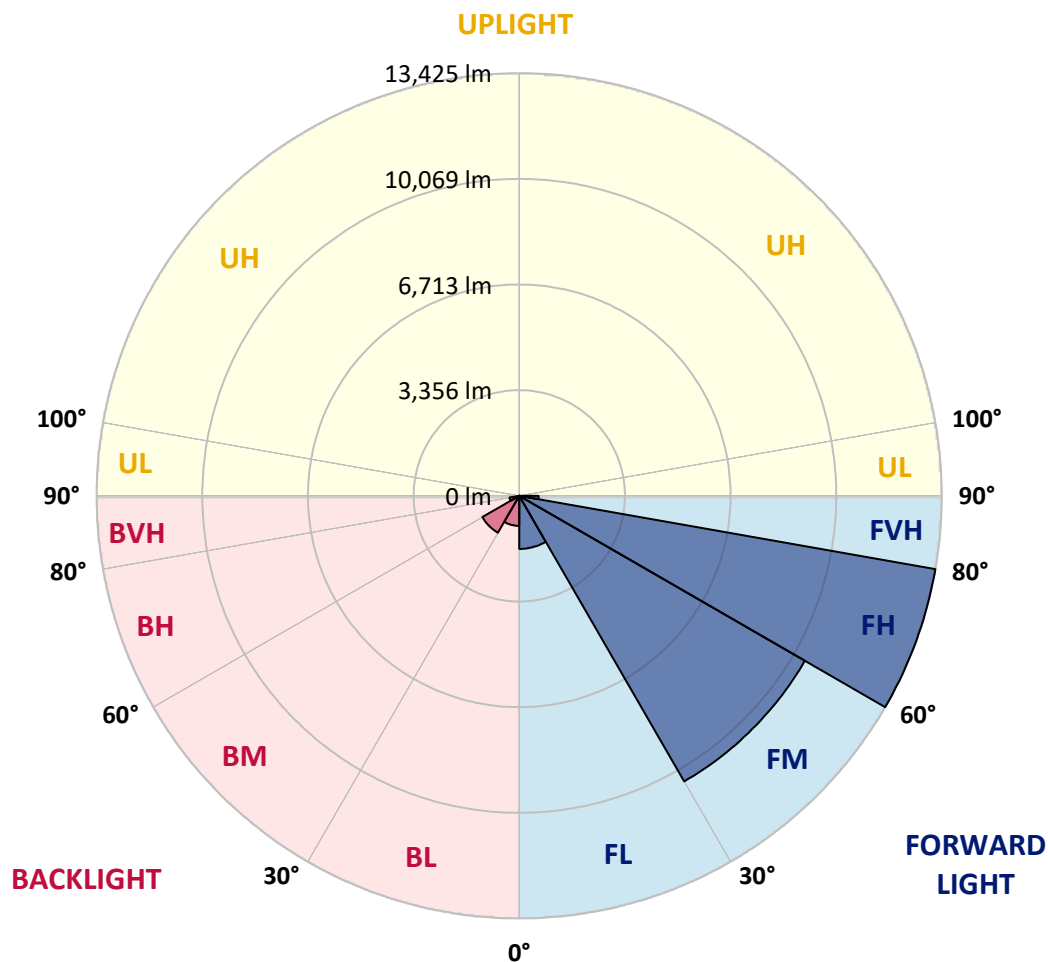
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1686.6	5.9			
FM	(30°-60°)	10475.8	36.3			
FH	(60°-80°)	13425.1	46.6			G5
FVH	(80°-90°)	614.6	2.1			G4/750
BL	(0°-30°)	955.6	3.3	B2/1000		
BM	(30°-60°)	1352.7	4.7	B2/2500		
BH	(60°-80°)	314.4	1.1	B1/500		G1/500
BVH	(80°-90°)	5.2	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°	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3
2.5°	4700.7	4720.4	4741.6	4745.8	4781.1	4782.5	4833.3	4871.4	4909.5	4946.2	4958.8
5°	4218.2	4250.6	4288.7	4326.8	4401.6	4431.2	4555.4	4682.3	4803.7	4919.3	4975.8
7.5°	3703.3	3739.9	3793.6	3888.1	3971.3	4029.2	4225.3	4451.0	4676.7	4889.7	5012.5
10°	3233.5	3267.3	3323.8	3423.9	3552.3	3631.3	3895.1	4208.3	4539.9	4862.9	5067.5
12.5°	2934.4	2952.7	2983.8	3091.0	3206.7	3295.6	3605.9	3993.9	4427.0	4861.5	5156.4
15°	2879.4	2885.0	2859.6	2907.6	2997.9	3083.9	3398.5	3820.4	4340.9	4884.1	5272.0
17.5°	2966.8	2964.0	2879.4	2873.7	2945.7	3016.2	3297.0	3700.4	4280.3	4936.3	5421.6
20°	3099.5	3089.6	2942.9	2916.1	2992.2	3058.5	3289.9	3655.3	4257.7	5023.7	5603.6
22.5°	3275.8	3258.9	3028.9	3000.7	3082.5	3151.7	3377.4	3699.0	4277.4	5140.8	5815.2
25°	3494.5	3469.1	3177.0	3146.0	3229.2	3298.4	3534.0	3824.6	4336.7	5283.3	6083.2
27.5°	3741.4	3704.7	3414.1	3333.6	3428.2	3500.1	3742.8	4016.5	4429.8	5434.3	6411.9
30°	3974.1	3926.2	3663.8	3531.2	3646.8	3727.2	3968.5	4245.0	4579.4	5667.1	6862.0
32.5°	4208.3	4154.7	3886.7	3728.7	3833.1	3920.5	4201.3	4559.6	4860.1	6022.6	7460.1
35°	4747.2	4690.8	4362.1	4101.1	4099.7	4149.1	4527.2	4989.9	5231.1	6517.7	8174.0
37.5°	5654.4	5621.9	5308.7	4813.5	4680.9	4625.9	4971.5	5503.4	5764.4	7199.1	8979.5
40°	6647.5	6619.3	6268.0	5819.4	5617.7	5482.2	5609.2	6218.7	6517.7	8031.5	9802.0
42.5°	7769.1	7635.1	7008.7	6874.7	6694.1	6591.1	6476.8	7100.4	7443.2	8937.2	10617.4
45°	8787.7	8562.0	7749.3	7546.2	7505.3	7530.7	7594.2	8285.4	8484.4	10013.6	11430.0
47.5°	9394.3	9216.5	8593.0	8398.3	8387.0	8554.9	9034.6	9624.3	9521.3	10951.8	12145.3
50°	9971.3	9810.5	9292.7	9340.7	9392.9	9621.4	10669.6	11001.2	10467.9	11802.5	12801.3
52.5°	10438.3	10192.8	9921.9	10191.4	10448.1	10816.4	12356.9	12237.0	11139.4	12479.7	13362.8
55°	10707.7	10596.3	10727.5	10998.3	11480.8	12079.0	13949.7	13265.5	11630.4	13097.6	13736.6
57.5°	11695.3	11476.6	11737.6	11971.8	12601.0	13437.6	15313.9	14031.5	11984.5	13479.9	13822.7
60°	12890.2	12713.8	12867.6	13257.0	14106.3	15089.6	16589.2	14656.5	12169.3	13725.4	13599.8
62.5°	14791.9	14559.1	14463.2	14899.1	16024.9	17098.5	17557.0	15089.6	12128.4	13616.7	12835.2
65°	17339.8	17098.5	16669.6	17064.7	18496.6	19254.2	18639.1	15181.3	11846.2	12737.8	10902.4
67.5°	19949.7	19774.7	19407.9	20073.8	21366.1	21610.1	19783.2	14958.4	10937.7	10328.2	7702.8
70°	21673.6	21598.9	21837.3	23310.1	24462.7	24392.2	20832.8	13760.6	8525.3	6351.3	3810.5
72.5°	20430.7	20789.1	22549.7	25220.3	26628.2	26052.7	20293.9	10566.7	4872.8	2443.5	1101.8
73°	19400.9	19859.4	22229.5	25292.3	26799.0	26168.3	19841.0	9699.0	4153.3	1928.5	835.2
75°	13496.8	14059.7	18403.5	23555.6	26000.5	24932.5	16538.4	5936.5	1924.3	854.9	337.2
77.5°	6553.0	6969.2	10133.5	17019.5	20220.5	19479.9	10295.8	2212.1	869.0	534.7	155.2
80°	2446.3	2720.0	4398.8	8662.1	11685.4	11991.5	4528.6	836.6	578.4	430.3	79.0
82.5°	640.5	713.8	1622.4	3862.7	5988.7	6268.0	1427.7	421.8	423.2	354.1	48.0
85°	204.6	234.2	506.5	1733.8	2821.5	2477.3	372.4	204.6	307.5	263.8	26.8
87.5°	25.4	32.4	160.8	407.7	622.1	345.6	57.8	60.7	131.2	146.7	15.5
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°	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3	4960.3
2.5°	4971.5	4964.5	4965.9	4929.2	4905.2	4857.3	4807.9	4785.3	4761.3	4751.5	4761.3
5°	4996.9	4984.2	4947.6	4834.7	4714.8	4559.6	4414.3	4304.3	4166.0	4127.9	4167.4
7.5°	5036.4	5011.0	4903.8	4673.9	4407.2	4111.0	3778.0	3535.4	3336.5	3208.1	3254.6
10°	5094.3	5046.3	4830.5	4439.7	3962.8	3438.0	2965.4	2597.2	2336.2	2229.0	2224.8
12.5°	5191.6	5101.3	4740.2	4135.0	3419.7	2720.0	2100.6	1701.4	1489.8	1352.9	1350.1
15°	5298.8	5166.2	4625.9	3769.6	2787.7	1948.3	1352.9	1049.6	912.8	869.0	863.4
17.5°	5430.0	5241.0	4477.8	3319.5	2126.0	1290.9	883.1	795.7	790.0	785.8	785.8
20°	5595.1	5329.9	4287.3	2804.6	1508.1	862.0	750.5	756.2	759.0	753.4	754.8
22.5°	5787.0	5420.2	4060.2	2251.6	1020.0	720.9	718.1	725.1	728.0	725.1	726.5
25°	6009.9	5524.6	3783.7	1671.8	736.4	684.2	691.3	701.2	708.2	708.2	708.2
27.5°	6286.4	5651.5	3450.7	1166.7	636.3	646.1	665.9	684.2	694.1	696.9	696.9
30°	6646.1	5809.5	3051.5	799.9	578.4	595.3	632.0	667.3	685.6	688.5	689.9
32.5°	7100.4	5987.3	2588.8	591.1	529.0	541.7	581.2	640.5	675.8	681.4	681.4
35°	7621.0	6193.3	2090.8	514.9	493.8	498.0	529.0	596.8	658.8	674.3	675.8
37.5°	8190.9	6396.4	1589.9	481.1	464.1	464.1	486.7	544.6	617.9	665.9	671.5
40°	8722.8	6519.2	1114.5	454.3	437.3	437.3	457.1	499.4	568.5	640.5	656.0
42.5°	9213.7	6561.5	775.9	428.9	411.9	416.2	433.1	467.0	519.2	591.1	605.2
45°	9718.8	6554.4	565.7	399.2	386.6	399.2	411.9	437.3	475.4	516.3	519.2
47.5°	10099.7	6495.2	448.6	371.0	362.6	379.5	390.8	407.7	428.9	426.1	426.1
50°	10456.6	6351.3	361.2	332.9	338.6	358.3	364.0	369.6	371.0	344.2	341.4
52.5°	10727.5	6127.0	289.2	292.0	314.6	334.4	328.7	320.2	306.1	273.7	268.0
55°	10817.8	5695.3	227.1	241.2	279.3	304.7	283.6	265.2	238.4	211.6	206.0
57.5°	10654.1	5138.0	184.8	187.6	235.6	256.8	232.8	211.6	182.0	159.4	155.2
60°	10307.1	4518.7	152.4	141.1	182.0	200.3	184.8	163.6	136.8	119.9	118.5
62.5°	9618.6	3858.5	125.6	110.0	138.3	153.8	143.9	128.4	105.8	94.5	93.1
65°	8171.2	3086.8	101.6	88.9	107.2	119.9	111.5	100.2	83.2	74.8	73.4
67.5°	5703.7	2086.5	83.2	73.4	84.6	94.5	87.5	81.8	66.3	64.9	66.3
70°	2751.0	1005.9	69.1	59.3	66.3	73.4	70.5	66.3	63.5	73.4	84.6
72.5°	788.6	337.2	55.0	49.4	53.6	57.8	60.7	59.3	69.1	88.9	103.0
73°	606.6	272.3	52.2	46.6	50.8	56.4	59.3	57.8	70.5	90.3	103.0
75°	259.6	131.2	39.5	38.1	42.3	49.4	52.2	52.2	70.5	91.7	98.8
77.5°	117.1	70.5	25.4	29.6	36.7	39.5	43.7	43.7	56.4	70.5	70.5
80°	66.3	38.1	19.8	22.6	26.8	26.8	26.8	24.0	25.4	28.2	31.0
82.5°	42.3	25.4	15.5	18.3	16.9	14.1	11.3	11.3	9.9	11.3	14.1
85°	24.0	14.1	14.1	11.3	7.1	5.6	7.1	5.6	1.4	0.0	1.4
87.5°	14.1	8.5	4.2	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)