

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: P322579

Luminaire Tested: **GAN-SA5D-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322579
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 27540 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

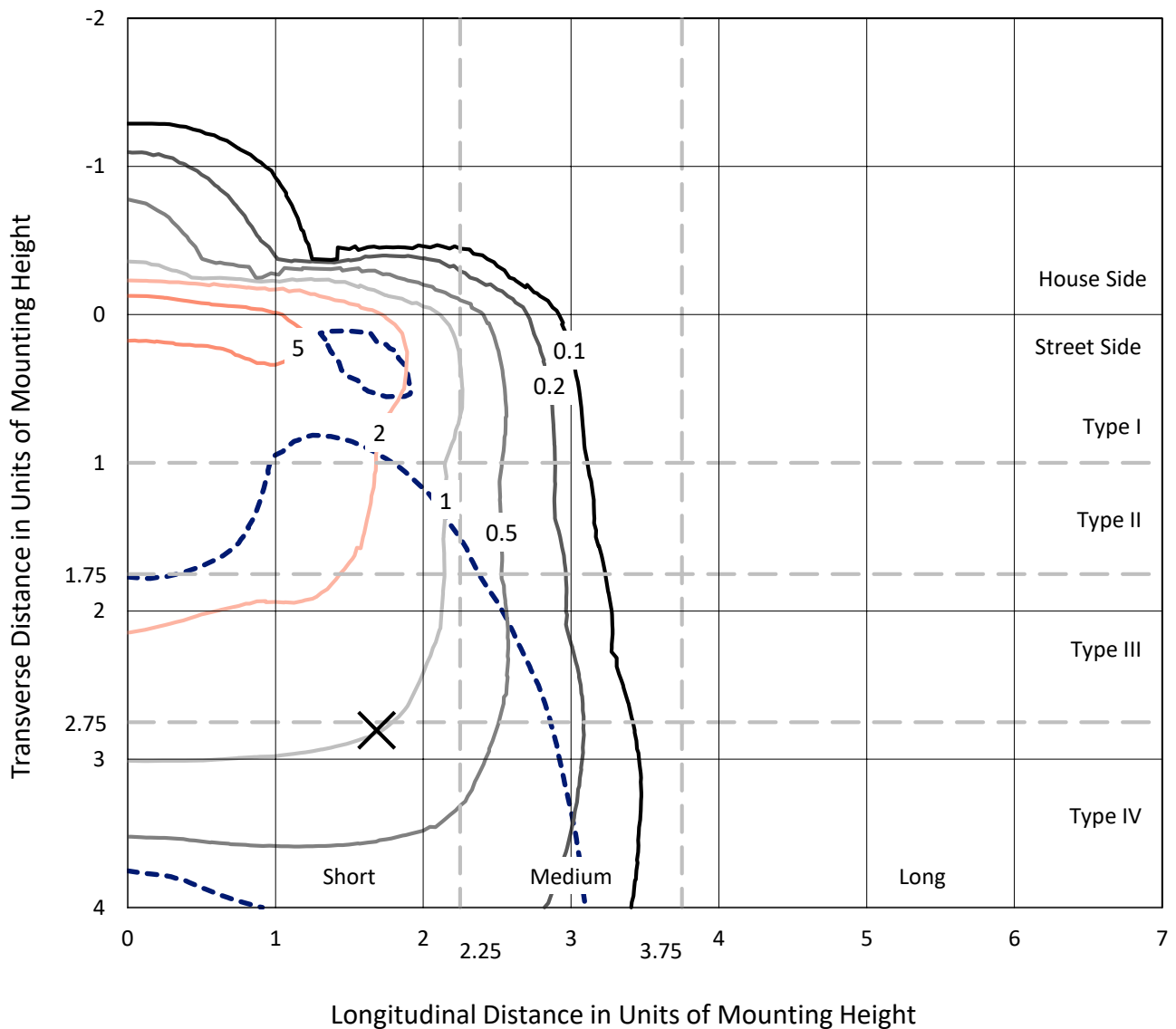
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

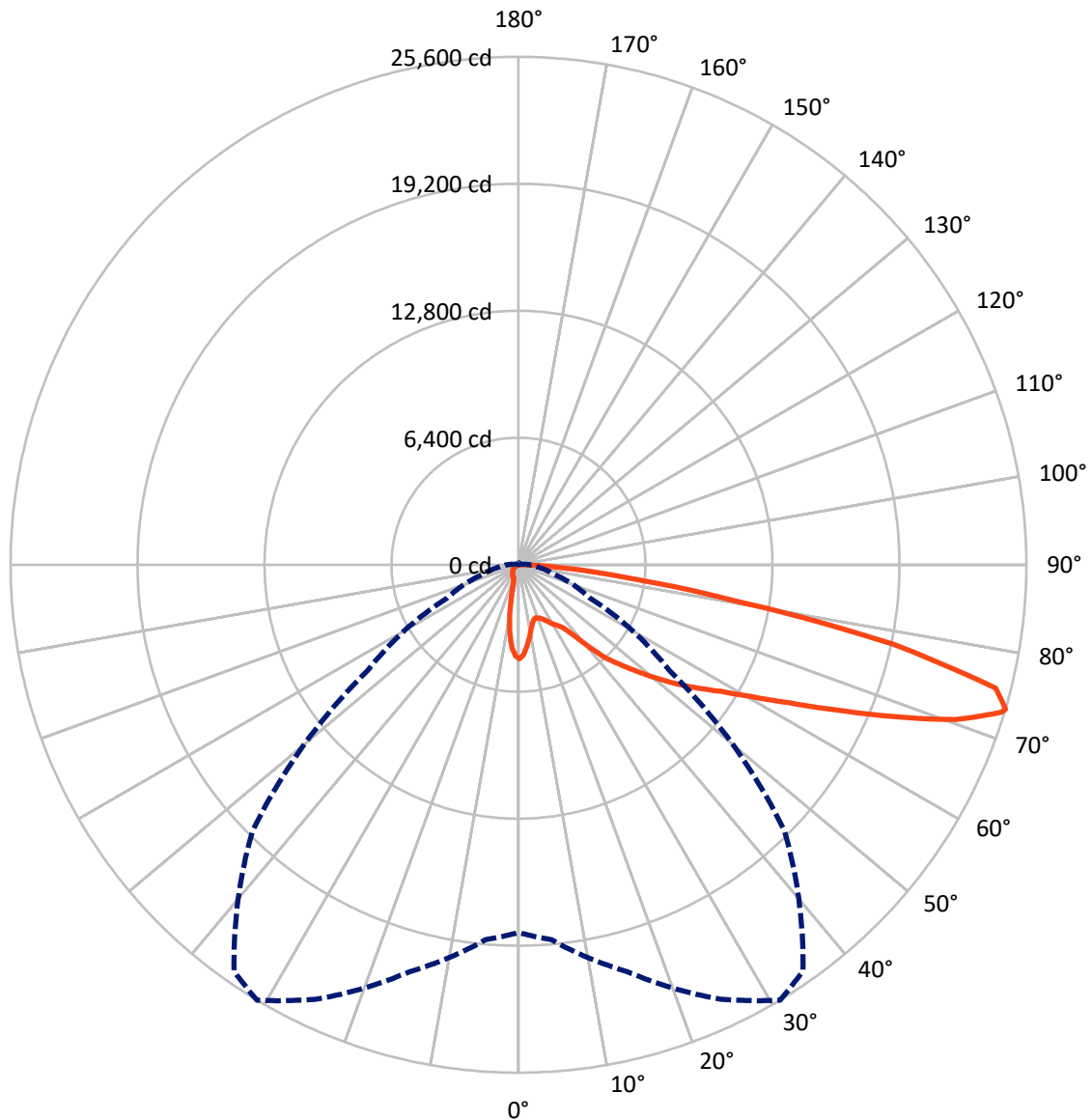
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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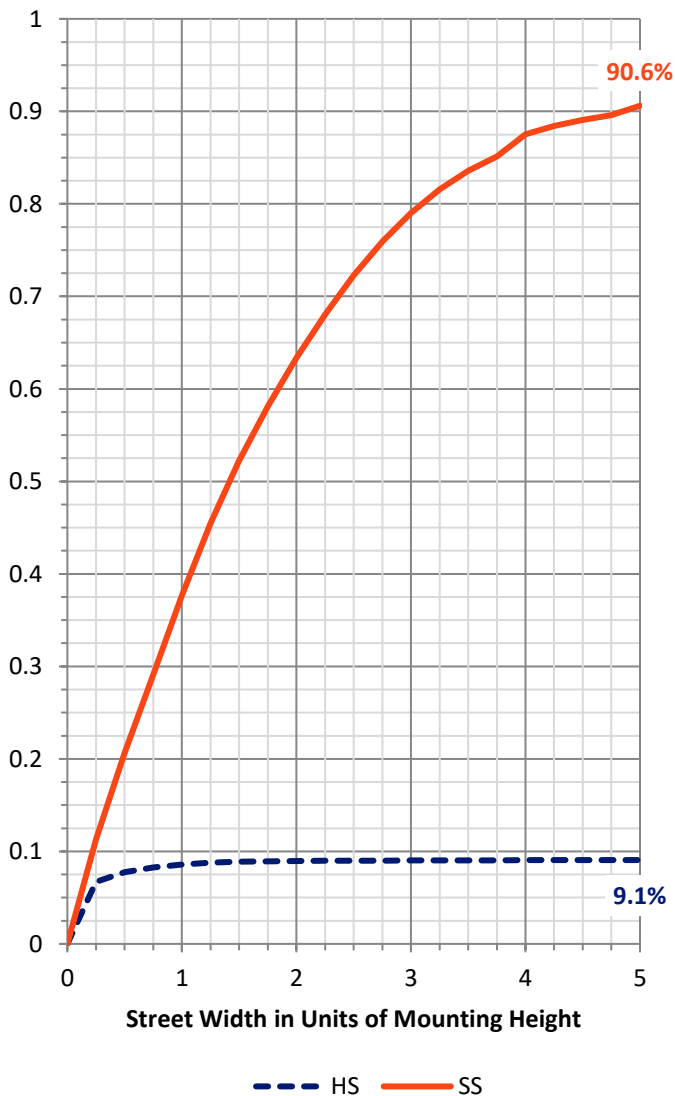
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2510.4	0.0	2510.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	25029.6	0.0	25029.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	27540.0	0.0	27540.0
	% 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°	2033.5	7.4
40°-50°	3631.2	13.2
50°-60°	5634.6	20.5
60°-70°	7490.4	27.2
70°-80°	5634.3	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°	27540.0	100.0
0°-180°	27540.0	100.0

Coefficient of Utilization



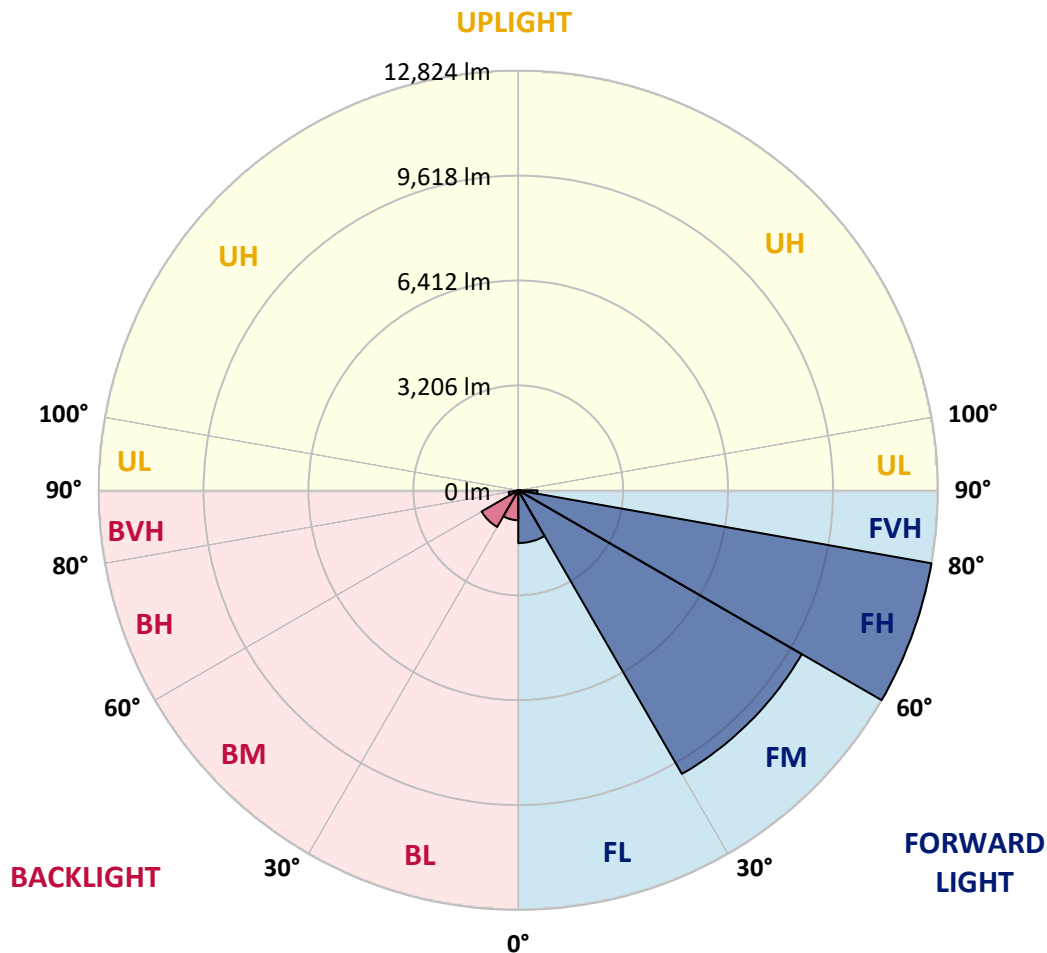
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.1	5.9			
FM (30°-60°)	10007.1	36.3			
FH (60°-80°)	12824.4	46.6			G5
FVH (80°-90°)	587.1	2.1			G4/750
BL (0°-30°)	912.9	3.3	B2/1000		
BM (30°-60°)	1292.2	4.7	B2/2500		
BH (60°-80°)	300.4	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°	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3
2.5°	4490.3	4509.2	4529.4	4533.5	4567.2	4568.5	4617.0	4653.4	4689.8	4724.8	4737.0
5°	4029.5	4060.4	4096.8	4133.2	4204.6	4232.9	4351.5	4472.8	4588.7	4699.2	4753.1
7.5°	3537.6	3572.6	3623.8	3714.1	3793.6	3848.9	4036.2	4251.8	4467.4	4670.9	4788.2
10°	3088.8	3121.1	3175.0	3270.7	3393.4	3468.8	3720.8	4020.0	4336.7	4645.3	4840.7
12.5°	2803.1	2820.6	2850.3	2952.7	3063.2	3148.1	3444.6	3815.2	4228.9	4644.0	4925.6
15°	2750.5	2755.9	2731.7	2777.5	2863.7	2945.9	3246.5	3649.4	4146.7	4665.5	5036.1
17.5°	2834.1	2831.4	2750.5	2745.1	2813.9	2881.3	3149.4	3534.9	4088.7	4715.4	5179.0
20°	2960.8	2951.3	2811.2	2785.6	2858.4	2921.7	3142.7	3491.7	4067.2	4799.0	5352.8
22.5°	3129.2	3113.1	2893.4	2866.4	2944.6	3010.6	3226.3	3533.5	4086.1	4910.8	5555.0
25°	3338.1	3313.9	3034.9	3005.2	3084.8	3150.8	3375.8	3653.5	4142.7	5046.9	5811.0
27.5°	3573.9	3538.9	3261.3	3184.5	3274.8	3343.5	3575.3	3836.7	4231.6	5191.1	6125.0
30°	3796.3	3750.5	3499.8	3373.2	3483.7	3560.5	3790.9	4055.1	4374.4	5413.5	6554.9
32.5°	4020.0	3968.8	3712.8	3561.8	3661.5	3745.1	4013.3	4355.6	4642.6	5753.1	7126.3
35°	4534.8	4480.9	4166.9	3917.6	3916.3	3963.4	4324.6	4766.6	4997.1	6226.1	7808.2
37.5°	5401.4	5370.4	5071.2	4598.2	4471.5	4418.9	4749.1	5257.2	5506.5	6877.0	8577.7
40°	6350.1	6323.1	5987.6	5559.0	5366.3	5236.9	5358.2	5940.4	6226.1	7672.1	9363.4
42.5°	7421.5	7293.4	6695.1	6567.1	6394.6	6296.2	6187.0	6782.7	7110.2	8537.3	10142.4
45°	8394.5	8178.8	7402.6	7208.5	7169.5	7193.7	7254.4	7914.7	8104.7	9565.6	10918.6
47.5°	8974.0	8804.2	8208.5	8022.5	8011.7	8172.1	8630.3	9193.6	9095.2	10461.8	11601.9
50°	9525.1	9371.5	8876.9	8922.7	8972.6	9190.9	10192.2	10508.9	9999.5	11274.4	12228.5
52.5°	9971.2	9736.7	9478.0	9735.4	9980.6	10332.4	11804.0	11689.5	10641.0	11921.3	12764.9
55°	10228.6	10122.1	10247.5	10506.2	10967.1	11538.5	13325.5	12671.9	11110.0	12511.5	13122.0
57.5°	11172.0	10963.1	11212.4	11436.1	12037.1	12836.3	14628.7	13403.7	11448.2	12876.7	13204.2
60°	12313.4	12145.0	12291.9	12663.8	13475.1	14414.4	15846.9	14000.7	11624.8	13111.2	12991.3
62.5°	14130.0	13907.7	13816.0	14232.5	15307.9	16333.4	16771.4	14414.4	11585.7	13007.5	12260.9
65°	16563.9	16333.4	15923.8	16301.1	17668.9	18392.6	17805.1	14502.0	11316.2	12167.9	10414.6
67.5°	19057.0	18889.9	18539.5	19175.6	20410.1	20643.2	18898.0	14289.1	10448.3	9866.1	7358.1
70°	20703.8	20632.4	20860.2	22267.1	23368.1	23300.8	19900.6	13144.9	8143.8	6067.1	3640.0
72.5°	19516.6	19858.9	21540.7	24091.8	25436.8	24886.9	19385.8	10093.8	4654.8	2334.1	1052.5
73°	18532.8	18970.8	21234.8	24160.5	25599.8	24997.4	18953.3	9265.0	3967.5	1842.2	797.8
75°	12892.9	13430.6	17580.0	22501.6	24837.1	23816.9	15798.4	5670.9	1838.2	816.7	322.1
77.5°	6259.8	6657.4	9680.1	16258.0	19315.8	18608.3	9835.1	2113.1	830.1	510.8	148.2
80°	2336.8	2598.3	4202.0	8274.5	11162.5	11455.0	4325.9	799.2	552.5	411.0	75.5
82.5°	611.8	681.9	1549.8	3689.8	5720.7	5987.6	1363.8	402.9	404.3	338.3	45.8
85°	195.4	223.7	483.8	1656.3	2695.3	2366.5	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	140.2	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°	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3	4738.3
2.5°	4749.1	4742.4	4743.7	4708.7	4685.8	4639.9	4592.8	4571.2	4548.3	4538.9	4548.3
5°	4773.4	4761.2	4726.2	4618.4	4503.8	4355.6	4216.8	4111.7	3979.6	3943.2	3980.9
7.5°	4811.1	4786.8	4684.4	4464.7	4210.0	3927.0	3609.0	3377.2	3187.2	3064.5	3109.0
10°	4866.3	4820.5	4614.3	4241.0	3785.5	3284.2	2832.7	2481.0	2231.7	2129.3	2125.2
12.5°	4959.3	4873.1	4528.1	3949.9	3266.7	2598.3	2006.6	1625.3	1423.1	1292.4	1289.7
15°	5061.7	4935.1	4418.9	3600.9	2662.9	1861.1	1292.4	1002.6	871.9	830.1	824.8
17.5°	5187.1	5006.5	4277.4	3171.0	2030.9	1233.1	843.6	760.1	754.7	750.6	750.6
20°	5344.8	5091.4	4095.5	2679.1	1440.6	823.4	716.9	722.3	725.0	719.6	721.0
22.5°	5528.0	5177.6	3878.5	2150.8	974.3	688.6	686.0	692.7	695.4	692.7	694.0
25°	5741.0	5277.4	3614.4	1597.0	703.5	653.6	660.3	669.8	676.5	676.5	676.5
27.5°	6005.1	5398.7	3296.3	1114.5	607.8	617.2	636.1	653.6	663.0	665.7	665.7
30°	6348.7	5549.6	2915.0	764.1	552.5	568.7	603.7	637.4	655.0	657.6	659.0
32.5°	6782.7	5719.4	2472.9	564.7	505.4	517.5	555.2	611.8	645.5	650.9	650.9
35°	7280.0	5916.2	1997.2	491.9	471.7	475.7	505.4	570.1	629.3	644.2	645.5
37.5°	7824.4	6110.2	1518.8	459.5	443.4	443.4	464.9	520.2	590.3	636.1	641.5
40°	8332.5	6227.5	1064.6	433.9	417.8	417.8	436.6	477.1	543.1	611.8	626.7
42.5°	8801.5	6267.9	741.2	409.7	393.5	397.6	413.7	446.1	495.9	564.7	578.1
45°	9283.9	6261.2	540.4	381.4	369.3	381.4	393.5	417.8	454.2	493.2	495.9
47.5°	9647.8	6204.5	428.6	354.4	346.3	362.5	373.3	389.5	409.7	407.0	407.0
50°	9988.7	6067.1	345.0	318.0	323.4	342.3	347.7	353.1	354.4	328.8	326.1
52.5°	10247.5	5852.8	276.3	279.0	300.5	319.4	314.0	305.9	292.4	261.4	256.1
55°	10333.7	5440.4	217.0	230.4	266.8	291.1	270.9	253.4	227.8	202.1	196.8
57.5°	10177.4	4908.1	176.5	179.2	225.1	245.3	222.4	202.1	173.8	152.3	148.2
60°	9845.9	4316.5	145.5	134.8	173.8	191.4	176.5	156.3	130.7	114.5	113.2
62.5°	9188.2	3685.8	119.9	105.1	132.1	146.9	137.5	122.6	101.1	90.3	88.9
65°	7805.5	2948.6	97.0	84.9	102.4	114.5	106.5	95.7	79.5	71.4	70.1
67.5°	5448.5	1993.2	79.5	70.1	80.9	90.3	83.6	78.2	63.3	62.0	63.3
70°	2627.9	960.9	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)