

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: P323198

Luminaire Tested: **GAN-SA4B-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19093 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

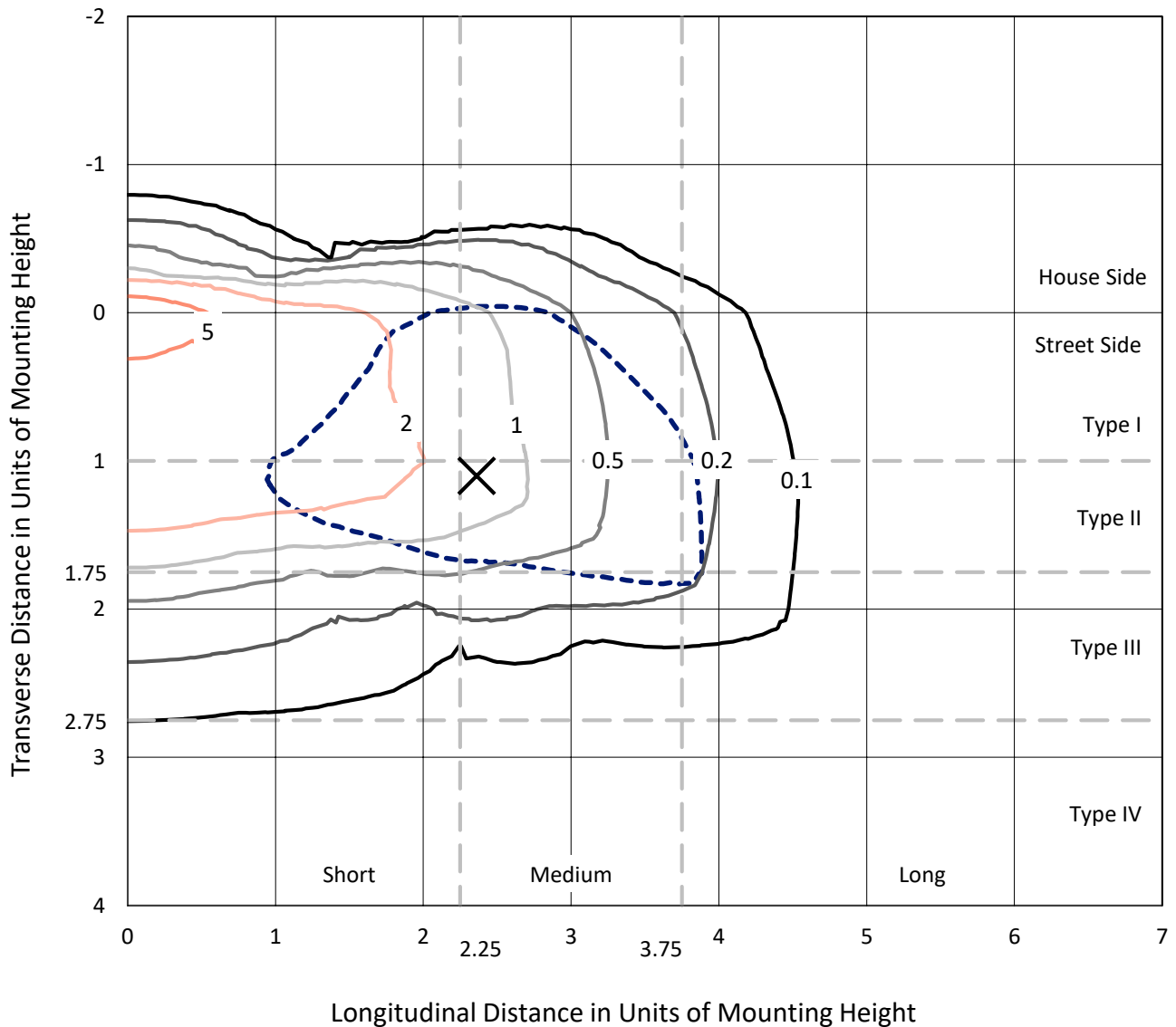
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

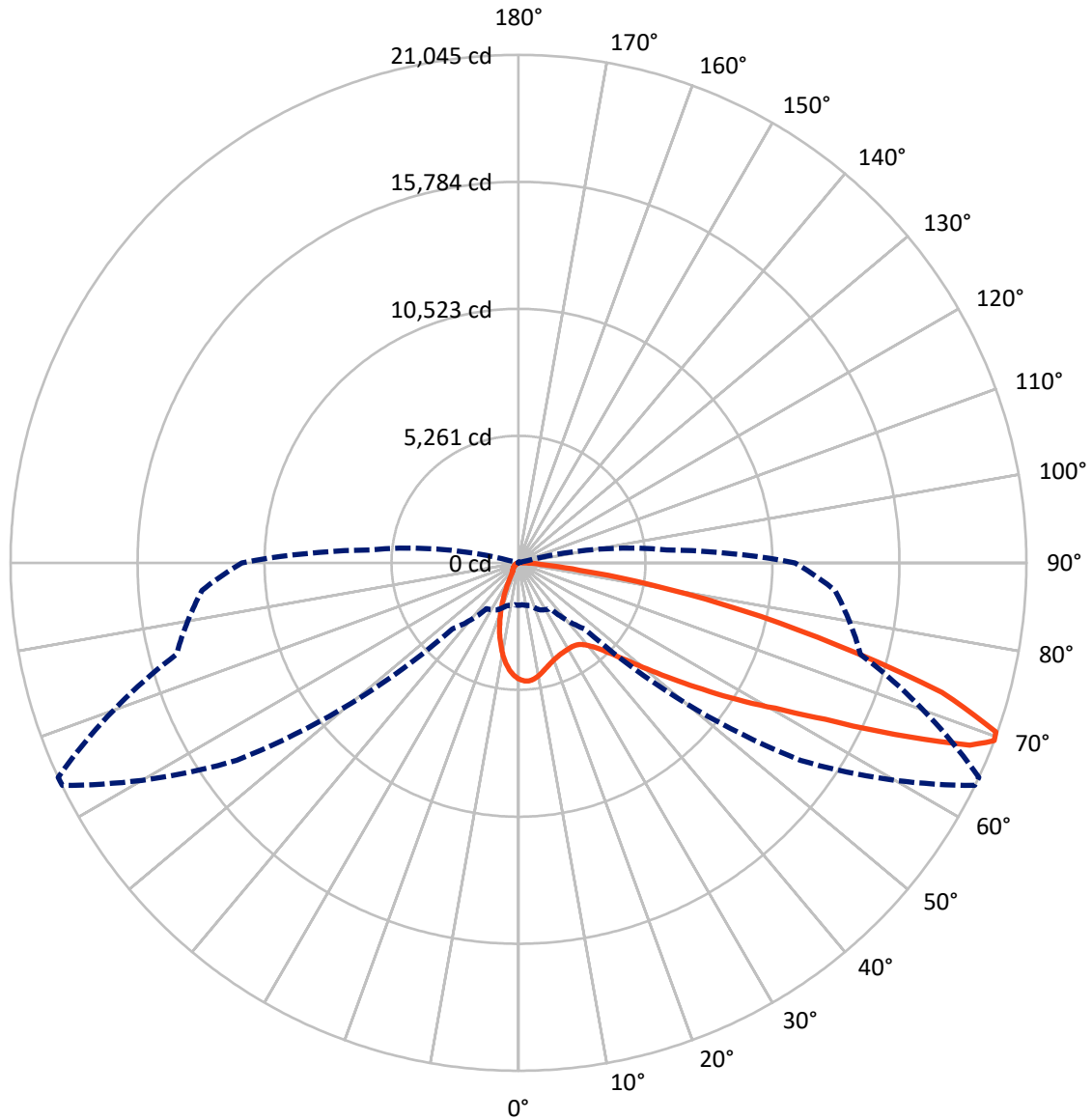
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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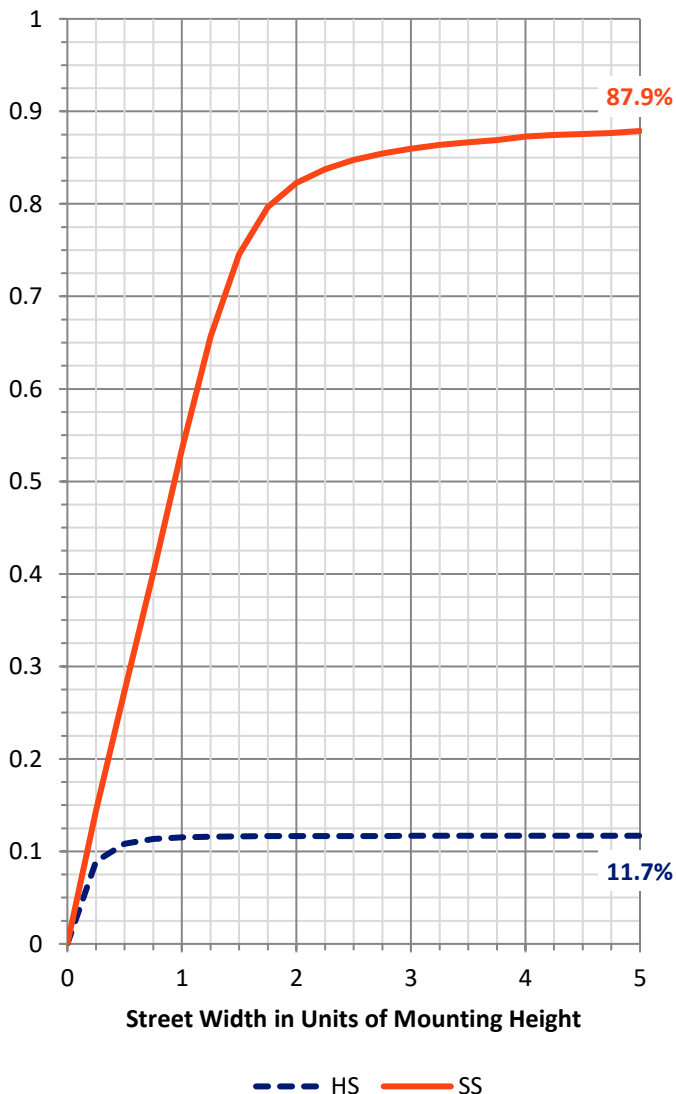
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2250.6	0.0	2250.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16842.4	0.0	16842.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	19093.0	0.0	19093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	2.1
10°-20°	883.2	4.6
20°-30°	1223.2	6.4
30°-40°	1705.6	8.9
40°-50°	2651.0	13.9
50°-60°	4256.0	22.3
60°-70°	4814.2	25.2
70°-80°	2827.4	14.8
80°-90°	328.9	1.7
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°	19093.0	100.0
0°-180°	19093.0	100.0

Coefficient of Utilization

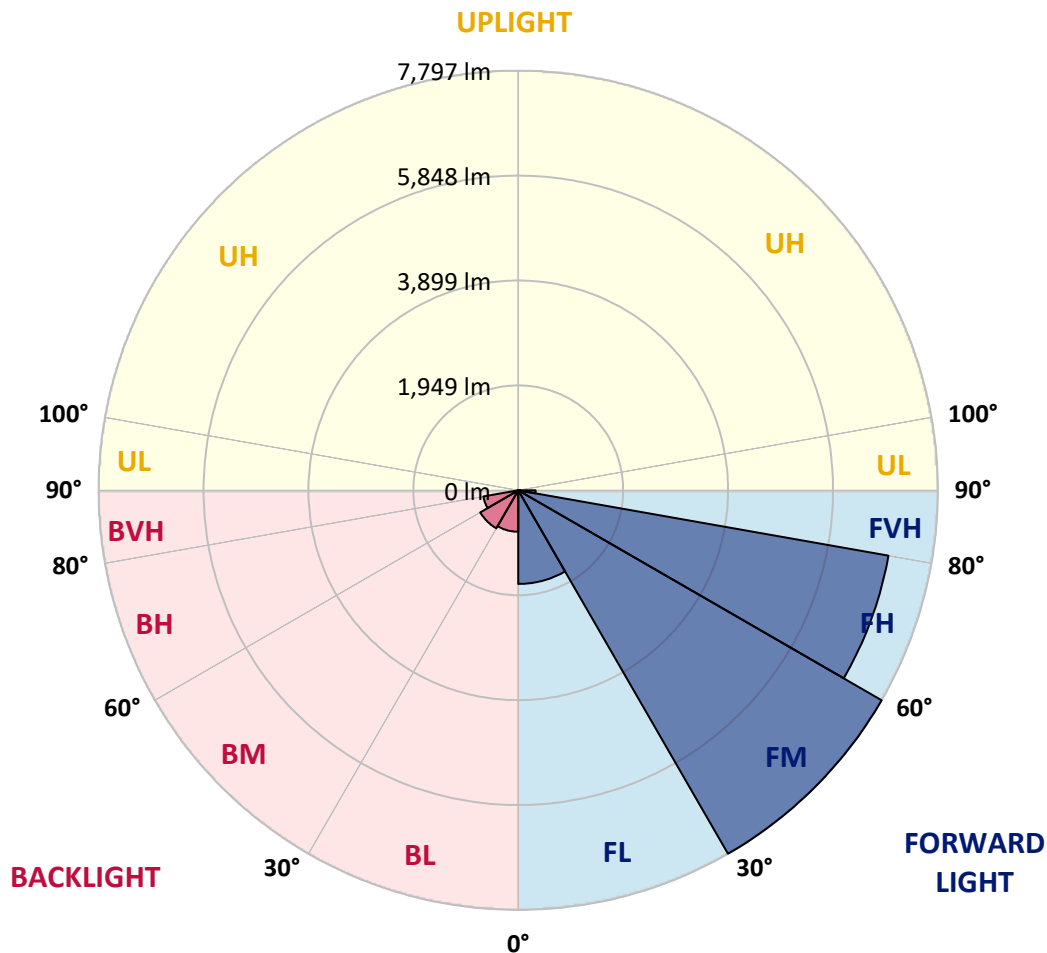


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.8	9.1			
FM (30°-60°)	7797.0	40.8			
FH (60°-80°)	6984.0	36.6			G3/7500
FVH (80°-90°)	321.5	1.7			G3/500
BL (0°-30°)	770.1	4.0	B2/1000		
BM (30°-60°)	815.6	4.3	B1/1000		
BH (60°-80°)	657.6	3.4	B2/1000		G2/1000
BVH (80°-90°)	7.4	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8
2.5°	4867.7	4855.5	4865.2	4886.2	4896.7	4896.7	4904.8	4895.1	4898.4	4874.9	4841.0
5°	4563.1	4544.5	4571.2	4630.1	4702.8	4765.0	4857.2	4905.6	4910.5	4911.3	4871.7
7.5°	4235.1	4218.1	4257.7	4327.2	4420.9	4536.4	4697.2	4837.8	4845.8	4921.8	4892.7
10°	3968.5	3956.3	4002.4	4076.7	4186.6	4315.9	4513.0	4708.5	4731.9	4900.0	4889.5
12.5°	3756.8	3747.1	3790.7	3876.3	3988.6	4131.6	4337.7	4564.7	4596.2	4850.7	4873.3
15°	3602.5	3600.9	3637.2	3719.6	3844.0	3977.3	4188.2	4431.4	4467.7	4797.4	4870.9
17.5°	3521.7	3524.1	3550.8	3621.0	3727.7	3860.2	4062.2	4319.1	4358.7	4749.7	4883.0
20°	3513.6	3516.0	3530.6	3570.2	3656.6	3773.7	3959.6	4224.6	4265.8	4714.2	4902.4
22.5°	3584.7	3583.1	3587.1	3583.1	3631.6	3720.4	3891.7	4151.8	4199.5	4690.7	4917.7
25°	3721.2	3718.8	3717.2	3687.3	3655.0	3702.6	3863.4	4110.6	4155.9	4673.8	4926.6
27.5°	3911.1	3909.5	3907.0	3857.8	3760.8	3730.9	3866.7	4095.3	4133.3	4660.0	4925.0
30°	4160.7	4172.0	4168.8	4100.1	3949.1	3817.4	3900.6	4087.2	4120.3	4633.4	4908.0
32.5°	4454.0	4476.6	4494.4	4420.9	4231.8	3988.6	3979.0	4096.1	4120.3	4613.2	4877.3
35°	4758.6	4787.7	4853.1	4827.3	4578.4	4246.4	4113.9	4149.4	4169.6	4624.5	4862.8
37.5°	5058.3	5093.1	5235.3	5310.4	5032.5	4587.3	4323.9	4281.1	4291.6	4693.1	4879.0
40°	5406.5	5459.0	5674.8	5795.9	5574.6	5043.8	4638.2	4507.3	4511.4	4844.2	4954.1
42.5°	5863.8	5917.9	6151.4	6341.3	6185.4	5620.6	5064.8	4853.1	4849.1	5127.0	5131.0
45°	6421.3	6477.8	6719.4	6930.2	6860.0	6304.1	5610.9	5358.1	5353.2	5573.0	5466.3
47.5°	7053.0	7108.8	7324.5	7541.8	7617.8	7102.3	6306.5	6047.2	6035.9	6192.6	5984.2
50°	7595.2	7631.5	7830.3	8122.7	8465.3	8083.1	7171.8	6922.2	6910.0	7015.9	6744.4
52.5°	7792.3	7813.3	8015.3	8424.9	9279.6	9411.3	8308.5	7987.0	7978.1	8024.2	7756.7
55°	7393.2	7431.2	7679.2	8286.7	9720.8	10912.4	9743.4	9305.5	9238.4	9139.1	8815.1
57.5°	6305.7	6366.3	6632.9	7440.8	9514.7	12103.3	11852.0	10796.9	10698.3	10090.8	9675.5
60°	4724.7	4799.0	5020.3	5892.1	8415.2	12527.4	14156.2	12458.8	12236.6	10848.6	10466.5
62.5°	3242.1	3279.3	3429.6	3997.5	6197.5	11832.6	16083.9	14684.6	14279.0	11672.7	11322.0
65°	2476.2	2489.2	2550.6	2746.1	3690.5	9611.7	16850.6	17621.3	17130.9	12658.3	12209.9
67.5°	1995.5	1985.0	2069.9	2349.4	2471.4	5863.8	15956.2	20399.7	20170.3	13976.0	13103.5
69°	1759.6	1745.1	1831.5	2156.3	2321.1	3876.3	14264.4	21030.7	21045.2	14671.6	13164.9
70°	1583.5	1593.2	1678.8	2041.6	2270.2	3042.6	12648.6	20869.9	20984.6	14931.8	12796.5
72.5°	1057.6	1083.4	1255.5	1695.0	2183.0	2302.5	7637.2	17908.9	18350.0	14346.0	10978.7
75°	596.2	615.6	820.0	1278.1	2056.9	2192.7	4033.9	13194.0	13620.5	11996.6	8466.1
77.5°	292.5	303.0	463.7	824.9	1720.0	2089.3	2288.0	8962.1	9449.3	7830.3	4788.5
80°	123.6	129.3	231.9	509.0	1229.6	1993.9	1699.0	5515.6	5576.2	3067.6	1275.7
82.5°	47.7	49.3	97.8	317.5	781.2	1554.4	1421.1	2615.2	2552.2	577.7	290.8
85°	5.7	6.5	35.5	190.7	434.7	799.8	1154.5	1127.0	1043.0	114.7	149.5
87.5°	0.0	0.0	2.4	58.2	129.3	374.9	600.3	467.8	421.7	37.2	77.6
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°	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8	4824.8
2.5°	4812.7	4804.6	4761.0	4698.0	4638.2	4563.9	4492.8	4450.0	4416.0	4393.4	4420.1
5°	4825.6	4790.1	4657.6	4487.9	4321.5	4134.1	3959.6	3811.7	3753.5	3688.9	3718.0
7.5°	4821.6	4754.5	4516.2	4214.1	3908.7	3592.8	3293.8	3063.6	2944.0	2826.9	2856.8
10°	4801.4	4688.3	4327.2	3879.6	3422.3	2968.3	2544.1	2221.8	2041.6	1878.4	1901.8
12.5°	4757.0	4599.4	4104.2	3496.6	2885.0	2286.4	1789.5	1376.7	1155.3	1057.6	1069.7
15°	4730.3	4513.0	3868.3	3108.8	2311.4	1592.4	1093.9	813.6	712.6	680.3	684.3
17.5°	4717.4	4429.8	3624.3	2665.3	1724.9	1013.9	706.9	623.7	601.9	596.2	597.9
20°	4704.5	4345.7	3373.0	2226.6	1188.4	681.9	580.9	556.6	548.6	541.3	542.9
22.5°	4682.6	4265.0	3103.2	1782.2	801.4	553.4	523.5	500.1	483.1	474.2	475.9
25°	4656.0	4180.1	2827.7	1327.4	584.9	493.6	465.4	432.2	412.0	395.9	396.7
27.5°	4613.2	4075.9	2543.3	966.3	491.2	441.9	404.0	367.6	333.7	315.1	315.1
30°	4553.4	3957.9	2227.4	691.6	440.3	391.0	345.0	299.7	263.4	246.4	244.8
32.5°	4487.1	3835.1	1908.3	524.3	399.9	343.4	290.8	243.2	210.9	197.1	196.3
35°	4430.6	3702.6	1590.0	439.5	359.5	297.3	239.9	199.6	173.7	162.4	161.6
37.5°	4394.2	3570.2	1279.7	392.6	323.2	254.5	201.2	164.8	146.2	137.3	136.5
40°	4388.6	3471.6	996.2	357.1	289.2	216.5	168.0	139.8	122.8	113.1	112.3
42.5°	4462.1	3415.0	764.3	327.2	254.5	183.4	143.0	119.6	101.8	92.1	91.3
45°	4655.2	3432.8	588.2	300.5	219.8	155.1	121.2	99.4	83.2	75.9	74.3
47.5°	5007.4	3555.6	467.8	273.9	186.6	131.7	103.4	82.4	68.7	61.4	60.6
50°	5634.4	3844.0	391.0	244.8	155.9	112.3	85.6	67.1	55.7	49.3	48.5
52.5°	6466.5	4357.9	349.0	216.5	129.3	95.3	70.3	53.3	43.6	38.8	38.0
55°	7384.3	4980.0	321.5	185.8	105.8	79.2	55.7	42.0	33.9	29.9	28.3
57.5°	8280.3	5518.8	295.7	155.9	88.1	64.6	44.4	33.1	26.7	22.6	21.8
60°	9103.5	6014.1	265.8	125.2	71.9	50.9	34.7	25.9	21.0	17.0	17.0
62.5°	9985.0	6397.0	224.6	97.8	59.0	38.8	28.3	23.4	17.0	14.5	13.7
65°	10918.9	6681.4	176.1	75.9	46.1	29.1	23.4	24.2	13.7	10.5	9.7
67.5°	11608.8	6624.9	130.1	59.8	35.5	22.6	22.6	25.9	12.1	8.1	7.3
69°	11457.0	6165.2	109.1	51.7	30.7	19.4	21.0	25.9	11.3	7.3	6.5
70°	11016.7	5656.2	96.1	46.1	27.5	17.8	20.2	25.0	10.5	7.3	6.5
72.5°	9174.6	4260.1	75.1	34.7	21.8	14.5	17.0	21.8	10.5	7.3	5.7
75°	6901.2	2726.7	57.4	25.0	16.2	11.3	12.9	16.2	10.5	6.5	5.7
77.5°	3755.2	983.2	41.2	17.0	11.3	8.9	8.9	12.1	9.7	4.8	3.2
80°	965.5	247.2	25.9	11.3	8.9	6.5	5.7	8.1	5.7	0.8	0.0
82.5°	238.3	55.7	13.7	8.1	6.5	2.4	2.4	4.0	2.4	0.0	0.0
85°	130.9	27.5	8.9	5.7	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	67.1	8.1	2.4	1.6	0.8	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)