

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: P319647

Luminaire Tested: **GAN-SA3C-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19668 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

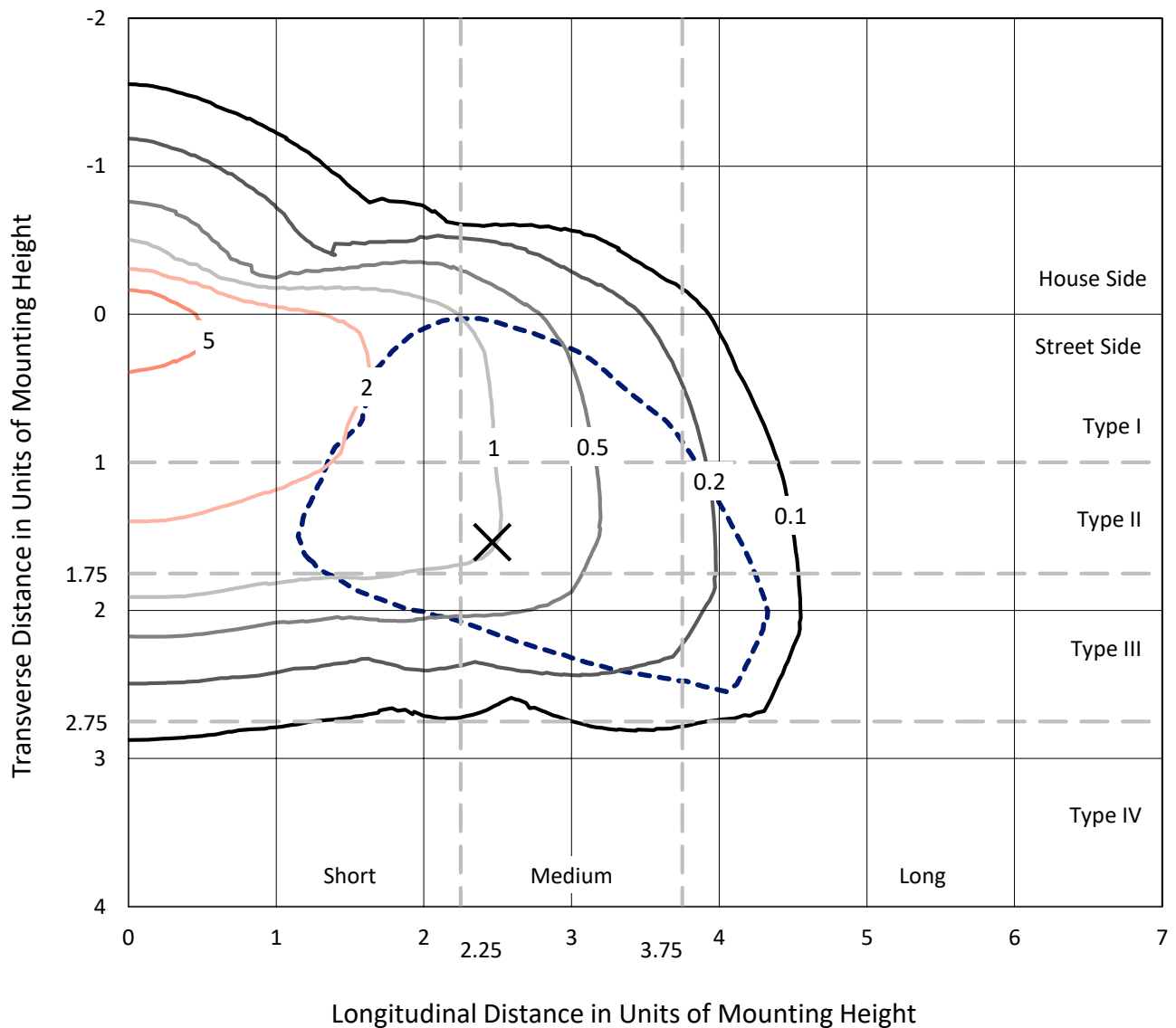
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

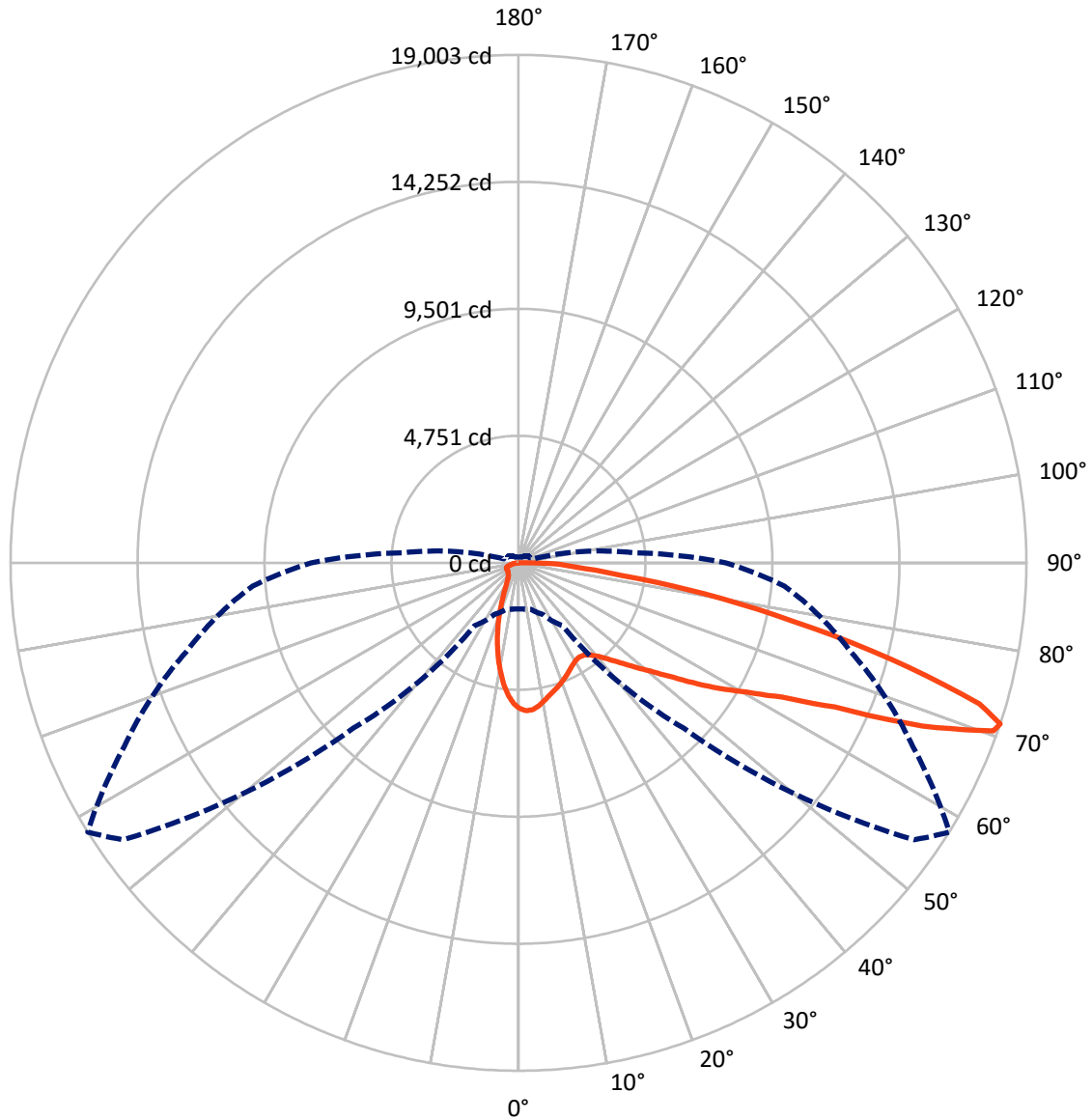
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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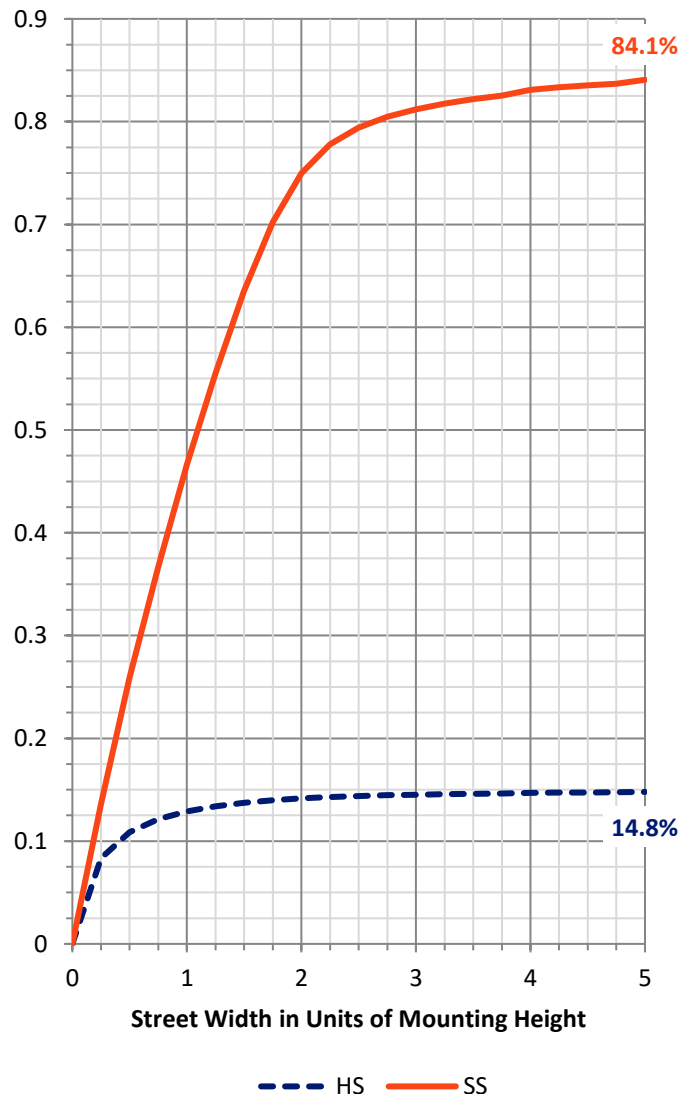
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2940.5	0.0	2940.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16727.5	0.0	16727.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	19668.0	0.0	19668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.1	2.4
10°-20°	1045.4	5.3
20°-30°	1328.5	6.8
30°-40°	1692.3	8.6
40°-50°	2399.8	12.2
50°-60°	3713.7	18.9
60°-70°	5055.8	25.7
70°-80°	3372.8	17.1
80°-90°	589.7	3.0
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°	19668.0	100.0
0°-180°	19668.0	100.0

Coefficient of Utilization

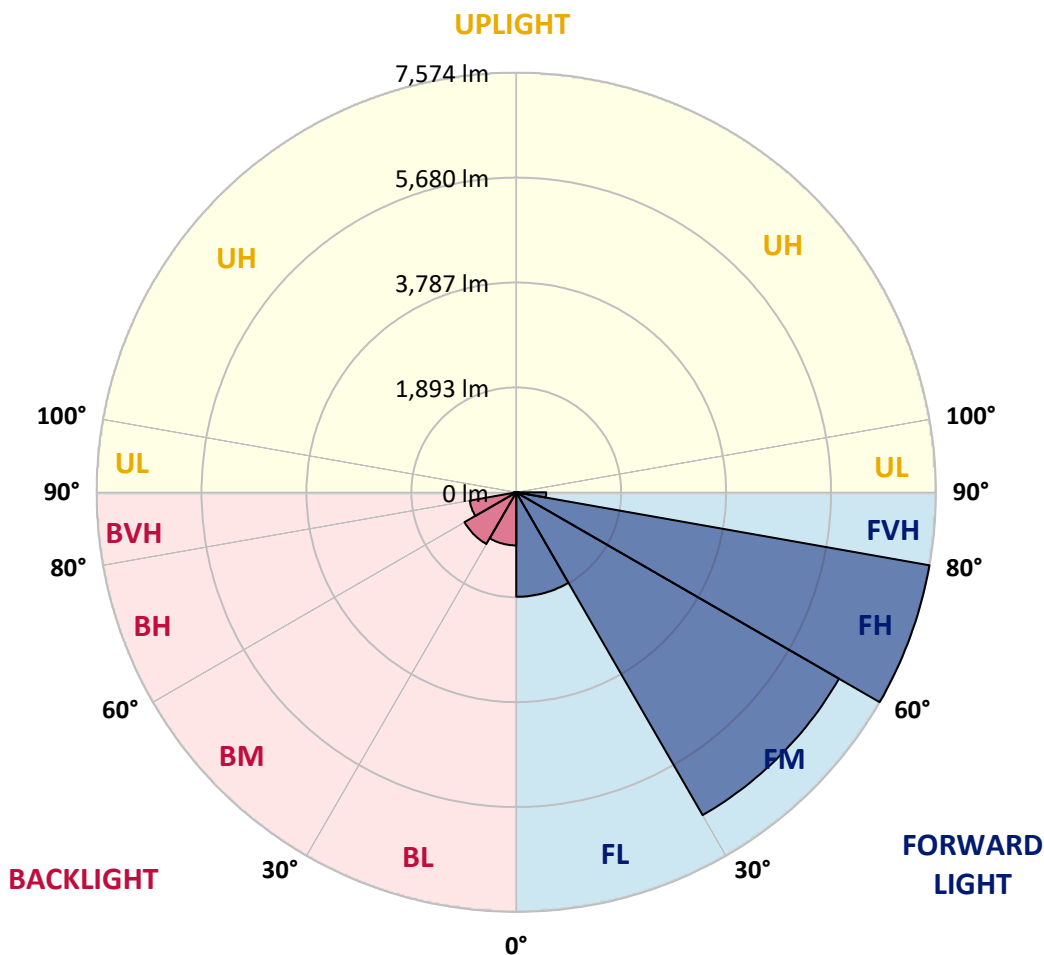


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1885.5	9.6			
FM (30°-60°)	6727.4	34.2			
FH (60°-80°)	7573.9	38.5			G4/12000
FVH (80°-90°)	540.7	2.7			G4/750
BL (0°-30°)	958.5	4.9	B2/1000		
BM (30°-60°)	1078.4	5.5	B2/2500		
BH (60°-80°)	854.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4
2.5°	5593.9	5586.4	5589.1	5583.6	5570.6	5557.6	5538.4	5541.8	5515.1	5475.4	5426.1
5°	5488.4	5485.7	5506.2	5517.9	5527.5	5519.9	5514.4	5521.3	5482.2	5427.4	5341.8
7.5°	5267.1	5237.0	5263.0	5302.1	5339.0	5367.1	5404.1	5408.9	5384.3	5326.7	5214.4
10°	4952.6	4923.9	4962.2	5023.2	5097.2	5164.3	5239.0	5252.7	5257.5	5205.5	5069.1
12.5°	4626.5	4604.6	4643.0	4728.6	4851.3	4954.7	5073.9	5094.5	5136.9	5102.0	4934.8
15°	4334.7	4326.5	4373.0	4457.3	4598.4	4756.7	4928.7	4966.3	5038.3	5026.6	4830.0
17.5°	4082.6	4080.5	4116.1	4204.5	4360.7	4560.8	4784.1	4847.8	4954.7	4968.4	4743.7
20°	3894.8	3890.7	3915.4	3980.5	4141.5	4368.3	4627.9	4715.6	4869.7	4917.7	4654.6
22.5°	3794.1	3793.4	3794.1	3825.0	3956.5	4167.5	4475.8	4582.7	4786.9	4877.3	4556.0
25°	3777.0	3774.9	3759.9	3756.4	3831.1	3999.7	4325.1	4442.9	4708.1	4849.2	4462.1
27.5°	3821.5	3824.3	3804.4	3772.2	3787.3	3889.4	4194.2	4320.3	4645.0	4843.7	4397.0
30°	3914.0	3912.7	3895.5	3862.0	3832.5	3848.3	4101.1	4227.1	4602.6	4867.7	4352.5
32.5°	4016.1	4023.6	4020.2	4001.7	3957.9	3894.8	4073.0	4196.3	4590.2	4925.2	4333.3
35°	4138.7	4147.0	4171.6	4186.0	4134.6	4033.2	4133.3	4240.1	4625.9	5033.5	4364.1
37.5°	4255.2	4276.4	4345.6	4406.6	4362.8	4249.7	4293.6	4369.6	4736.2	5204.1	4447.0
40°	4389.5	4408.0	4521.0	4650.5	4643.7	4526.5	4551.9	4602.6	4930.7	5448.7	4597.1
42.5°	4521.7	4558.7	4722.5	4906.1	4958.8	4855.4	4895.8	4922.5	5204.8	5772.7	4858.8
45°	4697.8	4737.5	4965.0	5186.3	5309.6	5251.4	5315.8	5326.0	5549.4	6213.9	5239.0
47.5°	4964.3	5009.5	5274.6	5506.9	5695.3	5701.5	5807.7	5803.6	5979.6	6718.9	5717.9
50°	5379.5	5444.6	5661.7	5878.9	6107.7	6235.2	6377.0	6357.1	6495.5	7256.7	6269.4
52.5°	5923.4	5953.6	6114.6	6274.9	6559.2	6844.9	7048.4	7030.6	7080.6	7809.5	6895.6
55°	6487.3	6509.9	6576.4	6664.0	7046.3	7512.2	7942.5	7914.4	7787.6	8383.7	7514.3
57.5°	6994.3	7040.2	7086.1	7122.4	7536.9	8209.7	8857.1	8859.1	8554.9	9003.0	8153.5
60°	7073.1	7113.5	7417.0	7703.4	8376.1	9140.0	9836.1	9815.5	9349.0	9675.1	8866.0
62.5°	6252.3	6343.4	6850.4	7612.2	9184.6	10841.8	11085.1	11059.7	10298.5	10503.4	9695.7
65°	4480.6	4584.1	5195.9	6340.7	8792.7	12717.0	13339.1	12997.9	11593.4	11522.2	10667.1
67.5°	2584.9	2609.6	2874.7	3794.1	6694.9	12814.9	16777.6	16300.1	13604.2	12677.9	11142.6
70°	1911.5	1910.8	1973.8	2334.8	3622.9	10458.9	18413.0	18841.2	15721.2	13058.2	10470.5
71°	1728.5	1730.6	1801.1	2125.2	2869.2	8754.3	18065.6	19002.8	16278.9	12870.4	9984.1
72.5°	1478.5	1485.3	1583.3	1906.0	2413.6	6037.2	16569.3	18032.7	16543.3	12407.3	9222.9
75°	1121.5	1137.3	1272.9	1606.6	2206.0	3061.7	12160.7	14399.6	14696.3	10948.0	6853.1
77.5°	800.2	818.0	971.5	1351.0	2097.1	2307.4	8143.9	10503.4	10815.1	7016.2	3091.2
80°	505.6	526.8	642.6	1074.9	1970.4	2191.0	5117.8	7060.0	5897.4	2245.1	786.5
82.5°	296.7	313.1	398.7	702.2	1609.3	2110.1	3011.1	3913.3	2295.1	678.3	357.6
85°	172.0	179.5	248.7	447.4	1168.8	1991.6	2212.2	2187.6	996.1	331.6	169.2
87.5°	80.2	89.1	147.3	233.6	648.8	1443.5	1748.4	1510.7	619.3	155.5	79.5
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°	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4	5449.4
2.5°	5402.1	5390.4	5341.8	5298.6	5253.4	5194.5	5129.4	5121.2	5081.4	5089.0	5075.3
5°	5295.2	5265.7	5148.6	5042.4	4917.0	4804.7	4682.7	4626.5	4545.7	4540.2	4519.7
7.5°	5142.4	5087.6	4906.1	4704.6	4503.2	4311.4	4121.6	3996.9	3869.5	3815.4	3810.6
10°	4970.5	4877.3	4610.1	4312.1	4021.6	3741.4	3470.1	3269.3	3088.5	3002.8	2999.4
12.5°	4807.4	4669.7	4303.2	3897.6	3500.2	3137.1	2765.1	2501.3	2274.6	2198.5	2166.3
15°	4669.0	4475.1	4004.5	3485.8	3003.5	2499.3	2075.9	1798.4	1588.8	1516.1	1502.4
17.5°	4534.7	4285.4	3698.2	3070.0	2486.9	1932.7	1508.6	1302.4	1190.7	1161.3	1160.6
20°	4401.1	4090.1	3378.3	2644.5	1987.5	1445.6	1159.9	1067.4	1029.7	1026.3	1020.8
22.5°	4249.7	3883.2	3041.9	2217.7	1551.1	1136.6	985.9	948.9	944.1	956.4	956.4
25°	4107.9	3677.7	2700.7	1799.8	1206.5	948.2	880.4	872.8	885.8	907.8	909.8
27.5°	3975.7	3479.7	2367.7	1428.5	966.7	835.1	807.1	816.0	839.3	864.6	865.3
30°	3866.8	3292.6	2044.4	1125.6	816.6	750.9	746.1	763.9	789.2	809.1	813.9
32.5°	3782.5	3133.0	1732.0	905.0	718.7	687.8	692.0	707.0	722.8	733.8	741.3
35°	3743.4	2996.0	1443.5	763.2	656.3	639.2	644.7	652.9	659.8	668.0	674.1
37.5°	3750.3	2889.8	1185.9	674.8	614.5	605.6	605.6	605.6	605.6	609.7	610.4
40°	3814.0	2828.8	976.3	618.7	586.5	576.9	569.3	562.5	557.0	559.7	558.4
42.5°	3977.1	2823.3	822.8	583.0	563.8	548.1	533.0	523.4	516.6	519.3	520.7
45°	4253.8	2891.8	719.4	557.7	542.6	518.6	499.4	489.2	484.4	493.3	494.6
47.5°	4612.1	3041.2	656.3	539.2	522.7	491.2	470.7	461.1	462.4	475.5	478.9
50°	5073.9	3283.7	626.2	527.5	509.0	467.9	446.7	438.5	442.6	461.1	465.2
52.5°	5580.9	3633.1	629.6	524.1	500.1	450.8	428.2	418.6	425.5	442.6	446.0
55°	6166.0	4053.1	686.5	528.9	487.1	439.8	413.1	396.7	402.2	417.9	420.7
57.5°	6816.1	4534.0	800.9	527.5	470.7	429.6	397.4	372.7	376.8	386.4	389.1
60°	7493.0	5115.0	978.3	531.6	463.1	417.2	376.1	345.3	343.9	352.1	353.5
62.5°	8305.6	5787.1	1181.1	534.4	467.9	401.5	348.0	317.9	313.8	315.8	317.2
65°	9142.8	6273.5	1105.1	523.4	483.0	388.5	323.4	291.2	283.6	282.3	282.9
67.5°	9168.8	5752.2	774.9	501.5	489.2	381.6	304.9	268.6	256.2	251.4	250.7
70°	8222.7	4673.1	603.6	478.2	464.5	370.6	287.7	250.1	231.6	224.0	223.3
71°	7760.9	4301.8	572.1	466.6	446.0	359.7	280.2	241.8	222.7	214.4	213.1
72.5°	7036.7	3856.5	533.7	448.1	410.4	331.6	265.8	230.2	210.3	200.7	198.7
75°	5049.9	2521.9	458.3	399.4	339.8	264.5	232.9	206.9	189.8	178.1	176.8
77.5°	1945.7	1003.7	346.7	332.3	260.3	206.9	191.8	178.8	166.5	154.8	154.1
80°	601.5	448.7	252.8	250.1	188.4	154.1	149.4	145.9	141.1	128.8	126.1
82.5°	321.3	257.6	174.0	161.7	123.3	102.8	108.2	109.6	110.3	97.3	95.9
85°	153.5	136.3	98.0	91.8	71.9	57.5	66.5	71.9	72.6	59.6	55.5
87.5°	73.3	71.3	45.9	34.9	26.7	19.2	23.3	28.8	31.5	22.6	19.9
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)