

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: P322213

Luminaire Tested: **GAN-SA9C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41964 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

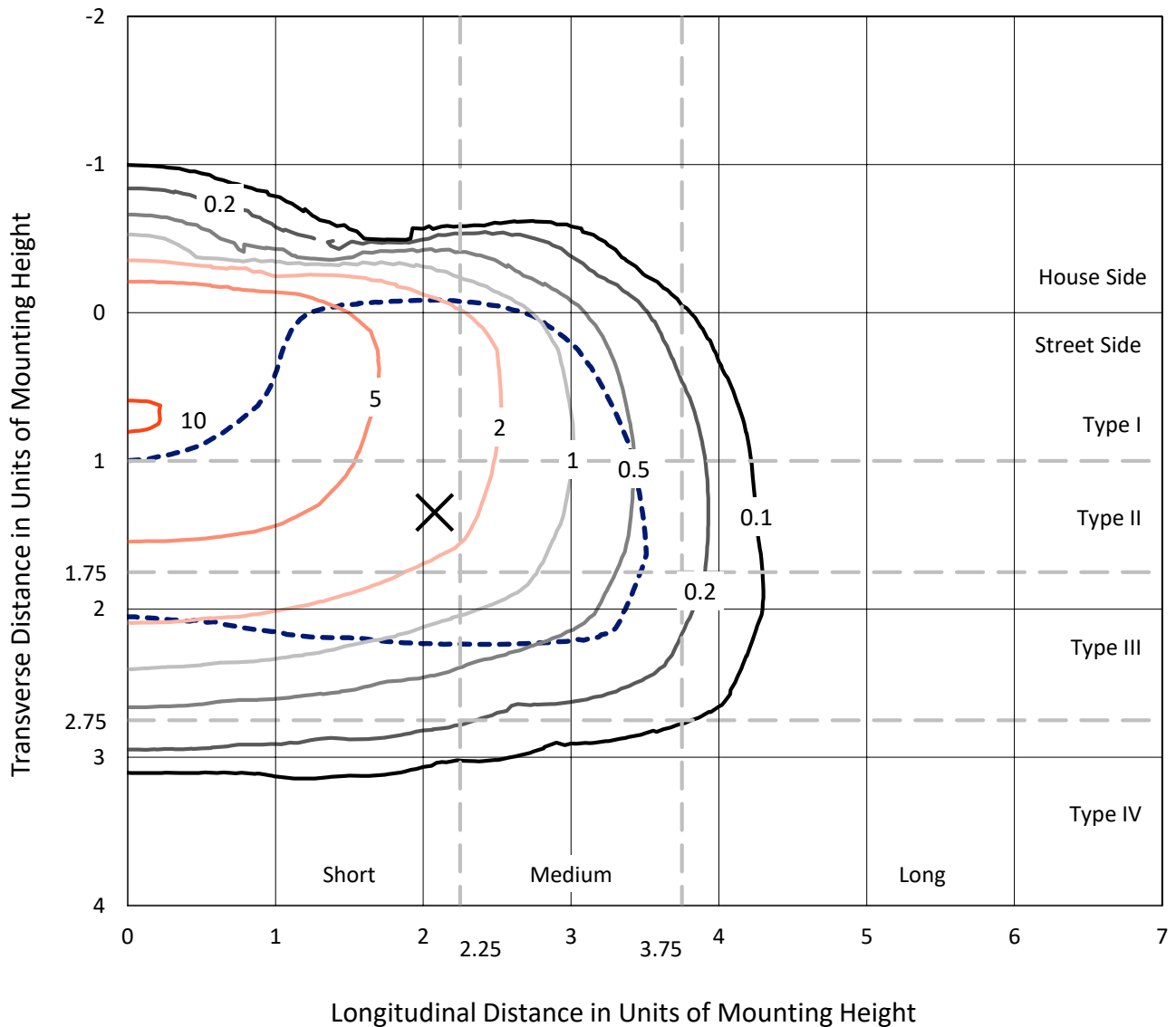
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

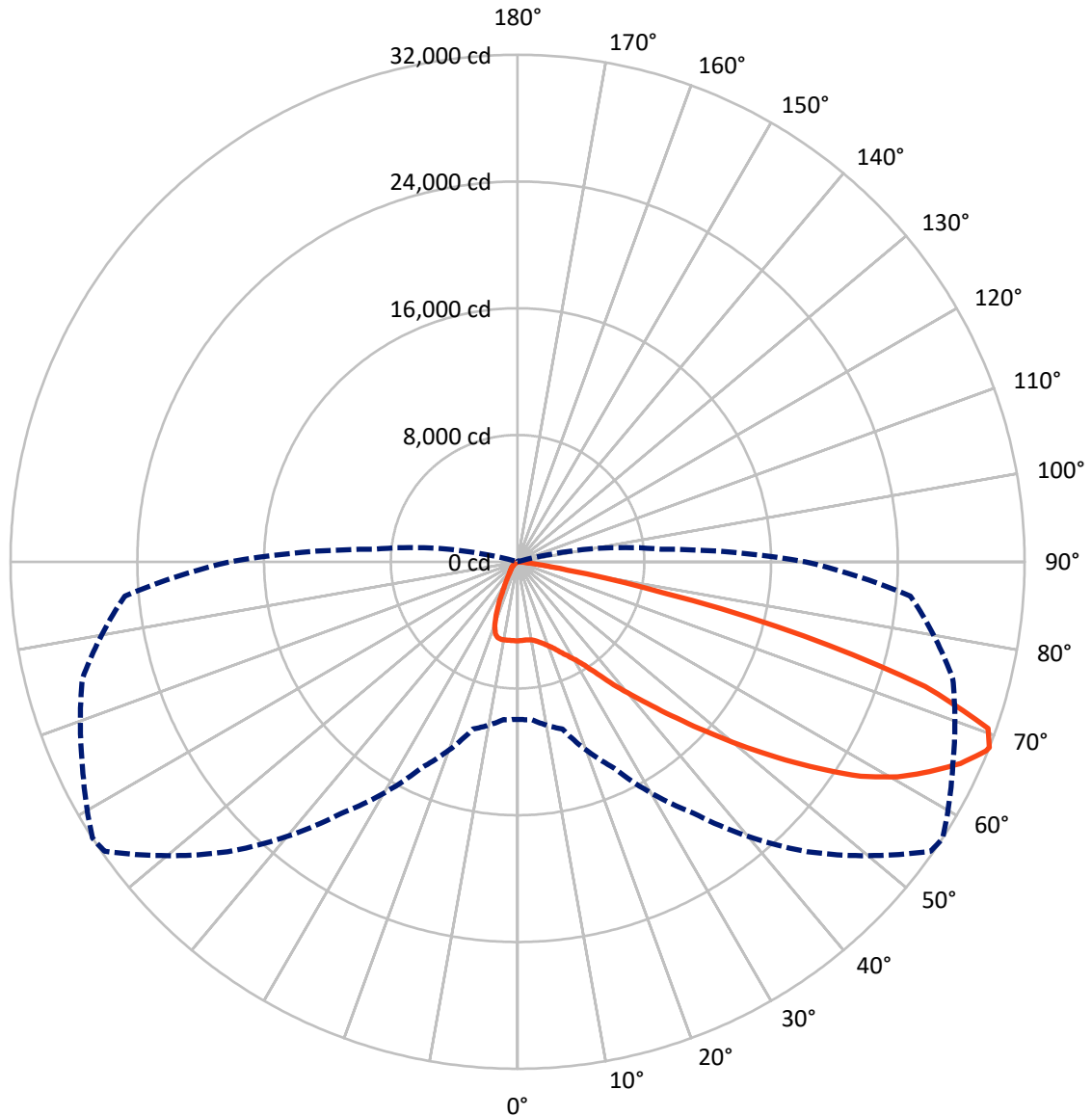
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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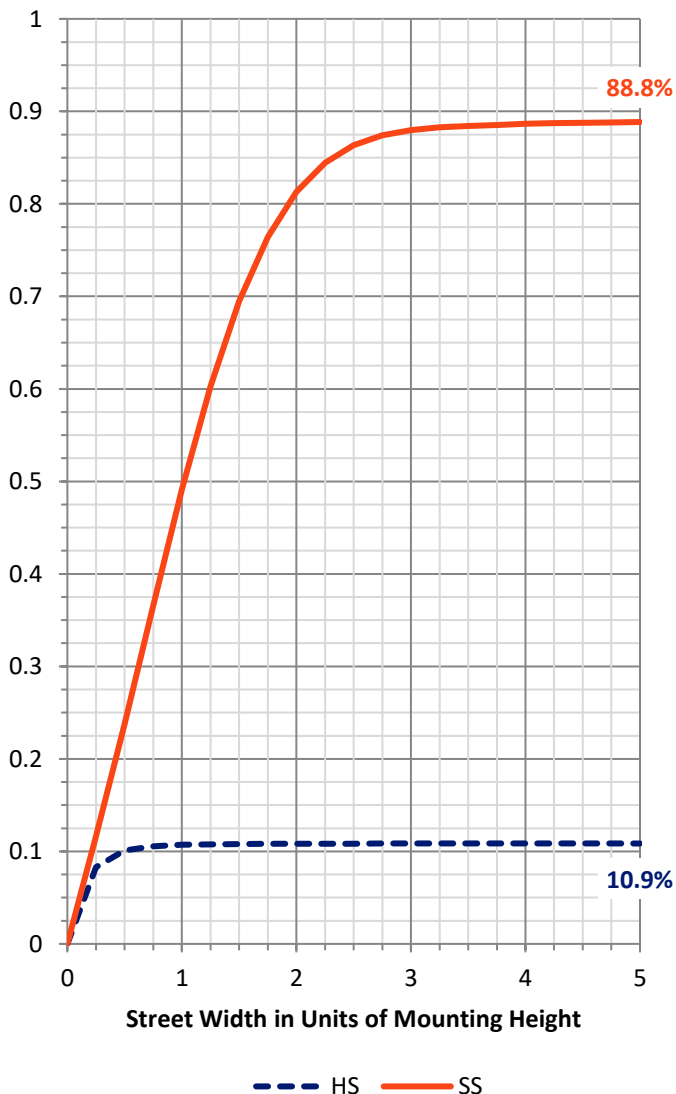
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4601.6	0.0	4601.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	37362.4	0.0	37362.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	41964.0	0.0	41964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	1.1
10°-20°	1293.1	3.1
20°-30°	2230.8	5.3
30°-40°	3850.2	9.2
40°-50°	6585.9	15.7
50°-60°	10536.8	25.1
60°-70°	12174.1	29.0
70°-80°	4651.9	11.1
80°-90°	174.4	0.4
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°	41964.0	100.0
0°-180°	41964.0	100.0

Coefficient of Utilization

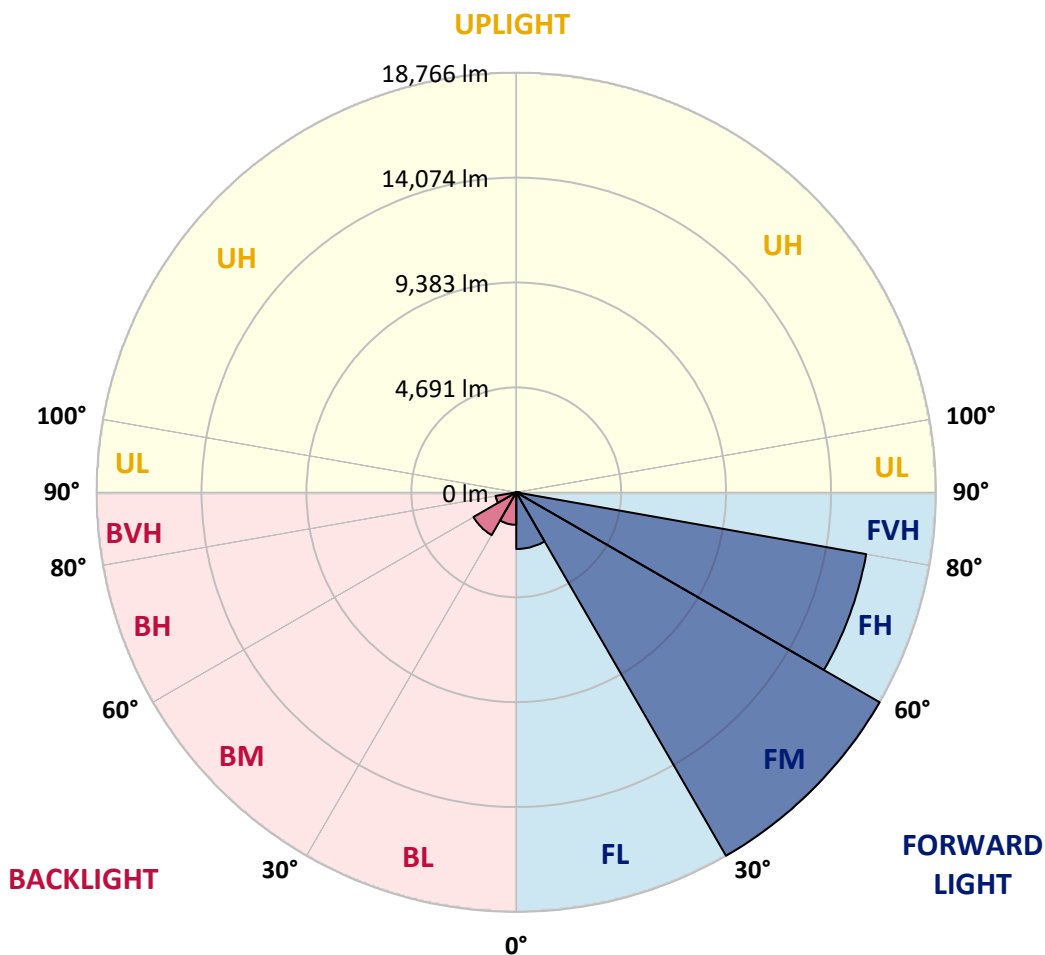


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2536.3	6.0			
FM (30°-60°)	18765.9	44.7			
FH (60°-80°)	15888.9	37.9			G5
FVH (80°-90°)	171.2	0.4			G2/225
BL (0°-30°)	1454.3	3.5	B3/2500		
BM (30°-60°)	2207.0	5.3	B2/2500		
BH (60°-80°)	937.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4
2.5°	4869.4	4891.2	4907.1	4917.0	4928.9	4954.7	4962.6	4974.5	4980.5	4980.5	4994.4
5°	4676.9	4700.7	4734.4	4762.2	4817.8	4889.2	4940.8	4960.6	4996.4	5028.1	5046.0
7.5°	4498.3	4526.1	4565.8	4631.2	4726.5	4841.6	4948.7	4976.5	5046.0	5113.4	5147.2
10°	4383.2	4405.0	4456.6	4549.9	4674.9	4835.6	4986.4	5020.2	5139.2	5252.3	5315.8
12.5°	4343.5	4363.4	4416.9	4522.1	4676.9	4865.4	5073.7	5123.3	5298.0	5462.7	5551.9
15°	4401.1	4405.0	4462.6	4561.8	4714.6	4938.8	5218.6	5278.1	5498.4	5712.7	5823.8
17.5°	4623.3	4605.5	4635.2	4678.9	4799.9	5036.0	5371.4	5460.7	5754.3	6006.3	6111.5
20°	5178.9	5178.9	5111.4	4992.4	4994.4	5186.8	5577.7	5678.9	6038.1	6329.8	6425.0
22.5°	6129.4	6111.5	5976.6	5684.9	5417.0	5446.8	5829.7	5960.7	6379.4	6690.9	6722.7
25°	7272.3	7250.5	7042.1	6631.4	6167.1	5867.4	6171.0	6321.8	6786.1	7062.0	6996.5
27.5°	8482.7	8464.8	8258.5	7748.5	7087.8	6538.1	6577.8	6720.7	7200.9	7472.7	7264.4
30°	9655.4	9661.3	9457.0	8933.1	8185.0	7393.3	7093.7	7177.0	7603.7	7879.5	7581.8
32.5°	10770.5	10778.5	10601.9	10016.5	9318.1	8387.4	7808.0	7786.2	8071.9	8343.8	8002.5
35°	11764.6	11784.5	11663.4	11209.0	10468.9	9494.7	8734.7	8683.1	8736.7	9044.2	8647.4
37.5°	12723.0	12734.9	12643.7	12260.7	11641.6	10711.0	9905.4	9832.0	9716.9	9953.0	9498.6
40°	13772.7	13742.9	13637.8	13290.5	12758.8	12054.3	11163.4	11036.4	10836.0	11046.3	10617.7
42.5°	14749.0	14715.2	14733.1	14340.2	13891.8	13435.4	12629.8	12411.5	12294.4	12536.5	11990.8
45°	15969.3	15951.4	16010.9	15669.7	15306.5	14975.2	14310.4	14072.3	14020.7	14304.5	13651.7
47.5°	17173.7	17217.4	17401.9	17257.1	17110.2	16818.5	16090.3	15983.2	16014.9	16358.2	15403.8
50°	18177.7	18229.3	18735.3	18902.0	19114.3	18943.7	18213.5	18148.0	18273.0	18582.5	17288.8
52.5°	18904.0	19009.2	19638.2	20406.1	21179.9	21295.0	20566.8	20507.3	20675.9	20723.5	18745.2
55°	19408.0	19501.2	20213.6	21618.4	23193.9	23690.0	23237.6	23007.4	22975.7	22505.4	20277.1
57.5°	19497.3	19487.4	20511.2	22402.2	24773.4	26053.3	25767.5	25541.3	24890.5	24152.3	22033.2
60°	18993.3	19050.8	20239.4	22674.1	25765.5	27841.1	27862.9	27569.2	26555.3	25753.6	23735.6
62.5°	17441.6	17675.7	18876.2	21961.7	25753.6	28561.3	29398.7	29174.5	27962.1	27065.2	25461.9
65°	14925.6	15008.9	16153.8	19521.1	24013.4	28259.7	30781.7	30698.4	29230.0	28339.1	26348.9
67.5°	10899.5	10718.9	11921.4	15372.0	20330.7	26501.7	31773.9	31879.0	30208.3	28601.0	25404.4
68°	9947.1	10000.6	10937.2	14346.2	19366.3	25880.6	31839.3	32000.1	30305.5	28430.4	24888.5
70°	5929.0	6032.1	6867.5	9877.6	14733.1	22366.5	31132.9	31500.0	29726.1	26670.4	21527.2
72.5°	1514.0	1637.0	2426.7	4420.9	8415.2	15758.9	26281.4	26902.5	25809.2	21636.3	14532.7
75°	623.1	654.8	867.1	1456.4	3135.1	7099.7	17322.5	18652.0	17892.0	12953.2	6567.9
77.5°	430.6	452.4	557.6	807.6	1357.2	2406.9	8492.6	9453.0	8516.4	4420.9	1432.6
80°	309.5	327.4	398.8	537.7	779.8	859.2	2768.0	3200.6	2541.8	970.3	355.2
82.5°	184.5	198.4	297.6	383.0	474.2	410.7	688.5	781.8	736.2	482.2	158.7
85°	91.3	107.1	200.4	273.8	256.0	172.6	210.3	234.1	289.7	293.7	85.3
87.5°	6.0	11.9	117.1	164.7	71.4	39.7	61.5	75.4	103.2	144.9	35.7
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°	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4	4986.4
2.5°	5000.3	5002.3	4988.4	4982.5	4986.4	4962.6	4952.7	4956.7	4956.7	4962.6	4952.7
5°	5049.9	5049.9	5026.1	4994.4	4976.5	4930.9	4901.1	4893.2	4887.2	4883.2	4875.3
7.5°	5157.1	5145.2	5103.5	5034.1	4974.5	4875.3	4799.9	4760.2	4740.4	4732.4	4726.5
10°	5329.7	5307.9	5238.4	5109.5	4972.5	4795.9	4631.2	4514.2	4416.9	4377.3	4353.5
12.5°	5561.9	5530.1	5413.0	5198.7	4958.7	4633.2	4276.1	3932.8	3613.3	3482.4	3416.9
15°	5829.7	5784.1	5599.6	5274.1	4877.3	4266.1	3490.3	2889.1	2446.6	2279.9	2208.5
17.5°	6101.6	6042.1	5762.3	5321.8	4633.2	3506.2	2448.6	1849.3	1553.7	1474.3	1446.5
20°	6375.4	6288.1	5903.2	5286.1	4081.6	2527.9	1615.2	1351.3	1266.0	1242.1	1234.2
22.5°	6635.3	6500.4	6030.1	5147.2	3232.3	1696.5	1277.9	1194.5	1166.7	1152.9	1148.9
25°	6861.5	6673.0	6141.3	4718.6	2287.8	1281.8	1150.9	1123.1	1087.4	1061.6	1063.6
27.5°	7073.9	6845.7	6208.7	4012.2	1525.9	1095.3	1065.5	1027.8	962.4	924.7	924.7
30°	7329.8	7075.8	6258.3	3087.5	1123.1	968.3	944.5	887.0	797.7	748.1	748.1
32.5°	7714.8	7425.1	6226.6	2166.8	930.6	851.2	795.7	716.3	619.1	571.5	569.5
35°	8304.1	7964.8	6000.4	1420.7	821.5	740.1	650.8	553.6	468.3	428.6	426.6
37.5°	9097.8	8687.1	5492.4	1015.9	736.2	636.9	529.8	422.6	359.1	333.4	331.4
40°	10127.6	9526.4	4766.2	823.5	656.8	537.7	408.8	327.4	283.7	263.9	265.9
42.5°	11363.8	10425.3	3895.1	710.4	579.4	442.5	319.5	258.0	230.2	216.3	212.3
45°	12736.9	11312.2	2982.3	633.0	502.0	357.2	250.0	204.4	182.6	174.6	174.6
47.5°	14246.9	12175.4	2182.7	565.5	418.7	275.8	200.4	166.7	148.8	142.9	140.9
50°	15618.1	12774.6	1573.5	494.1	343.3	218.3	162.7	138.9	127.0	119.1	119.1
52.5°	16761.0	12963.1	1158.8	416.7	277.8	174.6	134.9	119.1	107.1	101.2	101.2
55°	17767.0	12885.7	861.2	343.3	224.2	142.9	115.1	101.2	91.3	85.3	85.3
57.5°	18731.4	12635.7	642.9	279.8	180.6	115.1	97.2	85.3	75.4	71.4	71.4
60°	19519.1	12219.0	478.2	226.2	144.9	93.3	81.4	69.4	61.5	55.6	55.6
62.5°	20158.0	11758.7	351.2	186.5	115.1	73.4	63.5	57.5	45.6	39.7	39.7
65°	20162.0	10994.7	263.9	154.8	89.3	57.5	47.6	45.6	29.8	23.8	21.8
67.5°	18703.6	9478.8	202.4	132.9	69.4	43.7	35.7	37.7	15.9	9.9	7.9
68°	18173.8	9093.8	190.5	131.0	65.5	41.7	33.7	37.7	13.9	7.9	6.0
70°	15322.4	7234.6	152.8	127.0	57.5	31.7	27.8	37.7	11.9	6.0	4.0
72.5°	9800.2	4198.7	113.1	101.2	43.7	23.8	17.9	33.7	11.9	4.0	2.0
75°	4170.9	1301.7	77.4	71.4	25.8	17.9	11.9	21.8	7.9	2.0	0.0
77.5°	879.0	293.7	45.6	43.7	17.9	11.9	7.9	6.0	2.0	0.0	0.0
80°	226.2	85.3	23.8	21.8	9.9	6.0	4.0	0.0	0.0	0.0	0.0
82.5°	71.4	33.7	13.9	9.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.7	19.8	7.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	6.0	2.0	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)