

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: P321601

Luminaire Tested: **GAN-SA7B-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31087 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

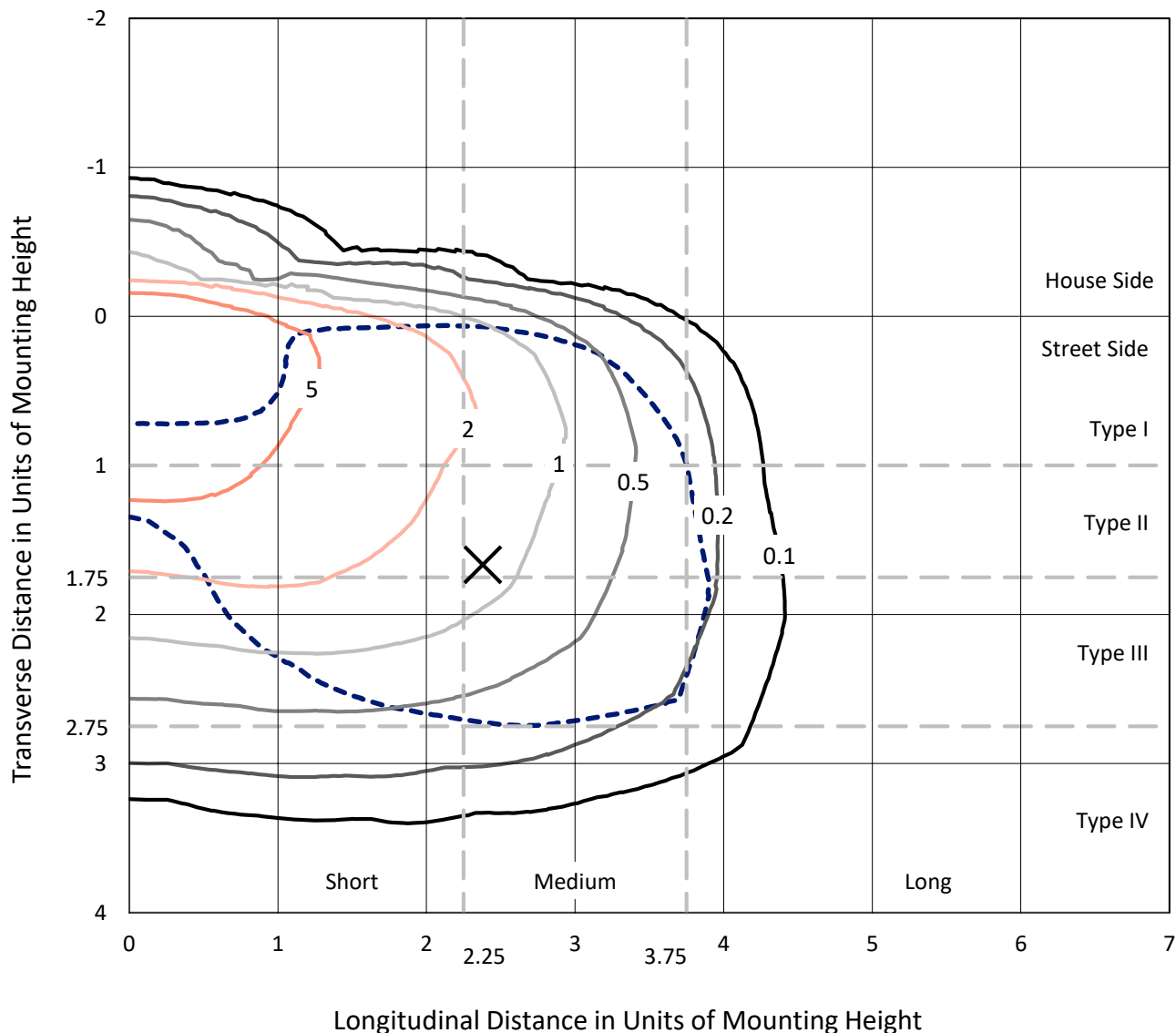
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

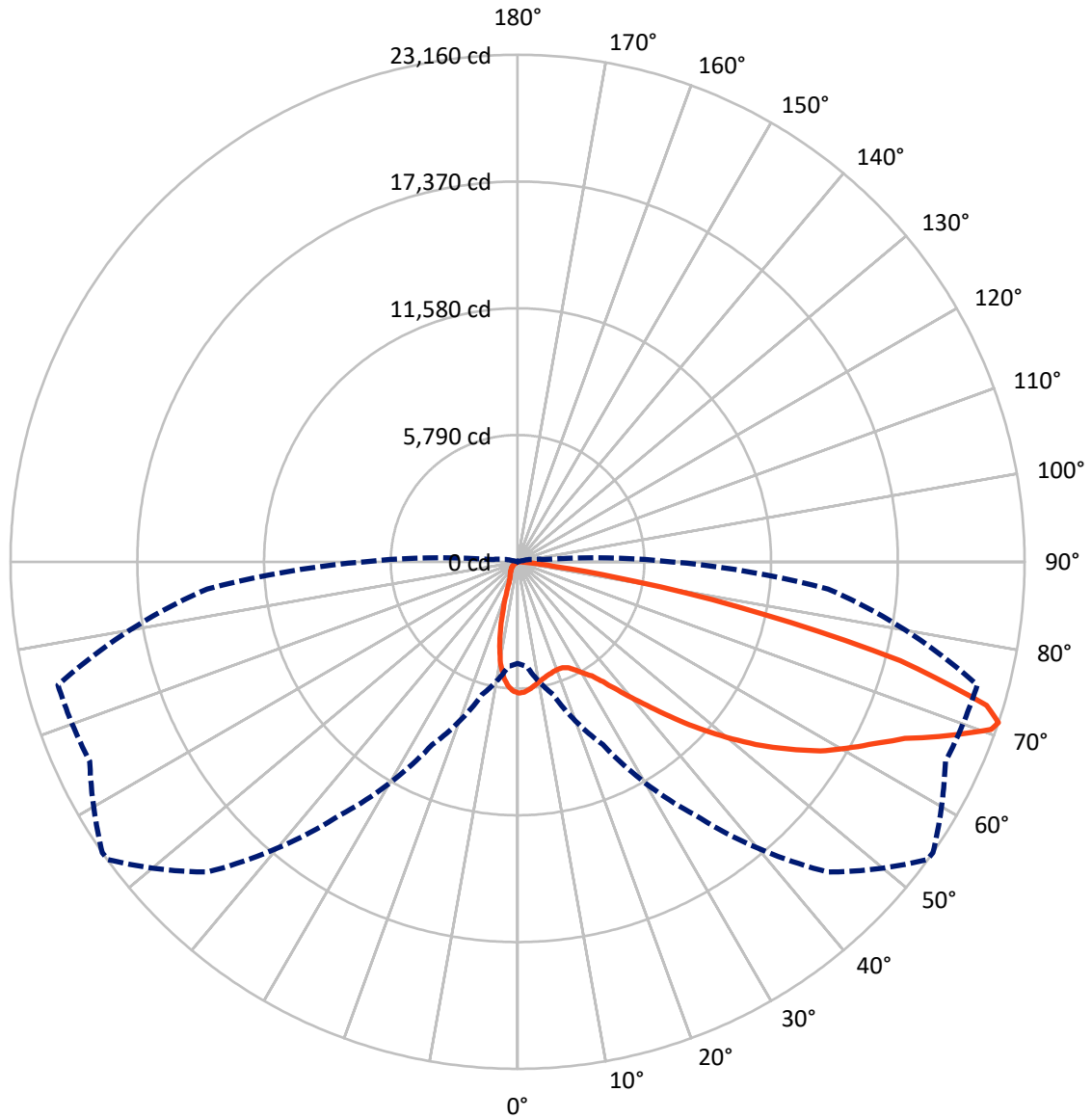
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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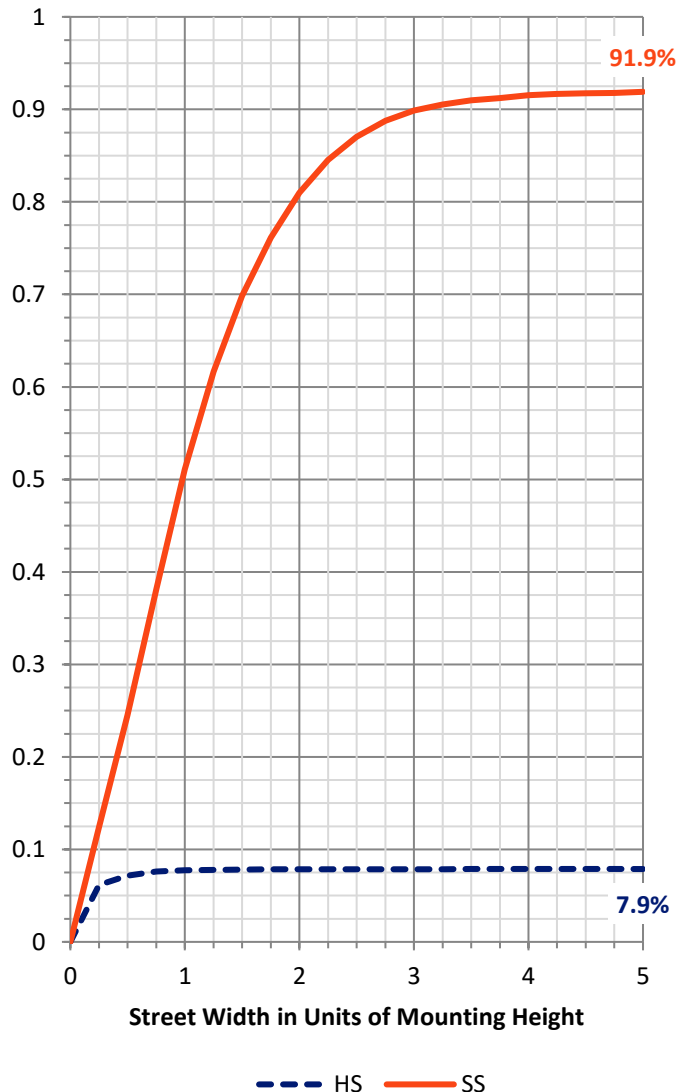
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2461.2	0.0	2461.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	28625.8	0.0	28625.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	31087.0	0.0	31087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.2	1.6
10°-20°	1154.0	3.7
20°-30°	1854.5	6.0
30°-40°	3151.0	10.1
40°-50°	4890.7	15.7
50°-60°	6575.4	21.2
60°-70°	8043.9	25.9
70°-80°	4703.1	15.1
80°-90°	203.3	0.7
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°	31087.0	100.0
0°-180°	31087.0	100.0

Coefficient of Utilization

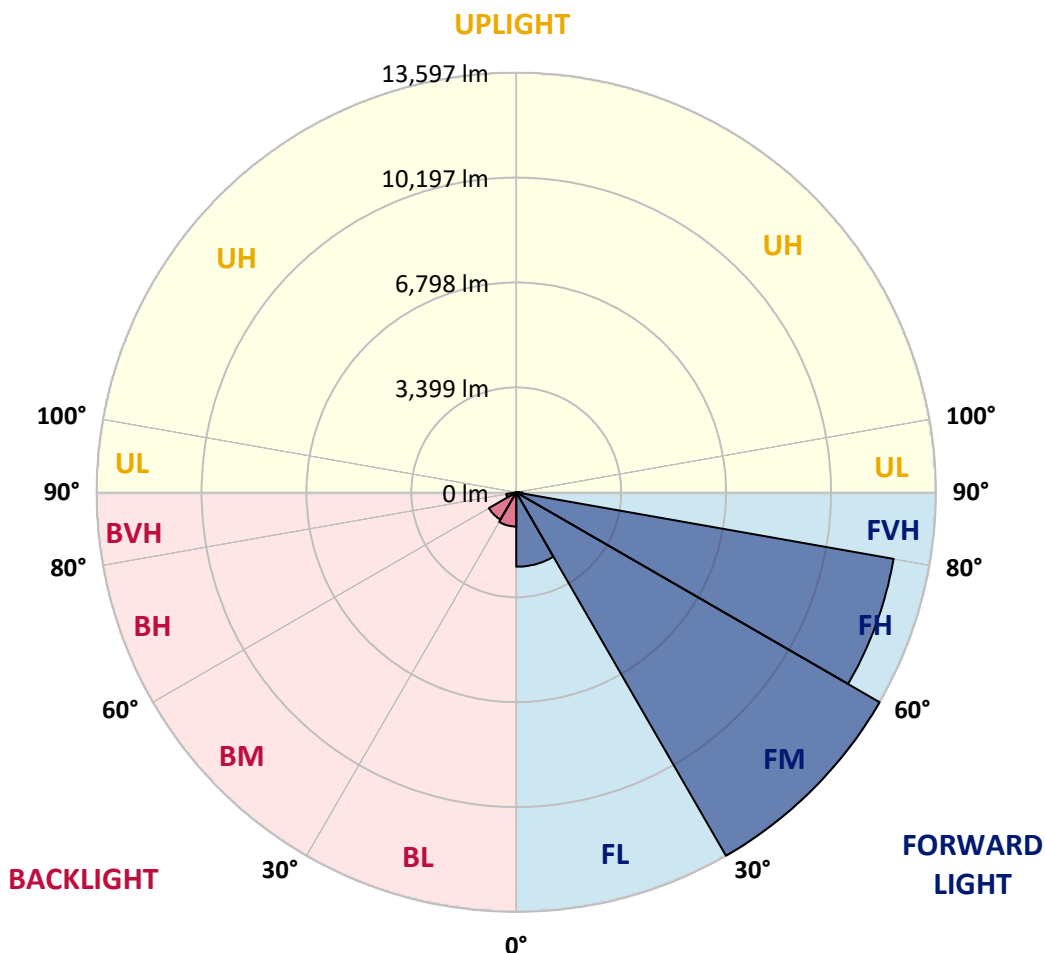


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2411.9	7.8			
FM (30°-60°)	13596.6	43.7			
FH (60°-80°)	12417.2	39.9			G5
FVH (80°-90°)	200.1	0.6			G2/225
BL (0°-30°)	1107.8	3.6	B3/2500		
BM (30°-60°)	1020.5	3.3	B2/2500		
BH (60°-80°)	329.8	1.1	B1/500		G1/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2
2.5°	5819.4	5826.3	5851.5	5862.6	5889.2	5933.8	5956.2	5957.6	5993.8	6007.8	6019.0
5°	5407.6	5449.5	5491.3	5536.0	5617.0	5724.4	5830.5	5840.3	5957.6	6044.1	6090.2
7.5°	5053.0	5090.7	5141.0	5212.2	5326.6	5495.5	5672.8	5693.7	5915.7	6112.5	6215.8
10°	4688.7	4719.4	4792.0	4896.7	5054.4	5280.6	5519.2	5554.1	5878.0	6204.6	6386.1
12.5°	4299.3	4317.4	4405.3	4556.1	4787.8	5075.4	5389.4	5435.5	5854.3	6310.7	6587.1
15°	4003.3	4011.7	4095.5	4251.8	4517.0	4891.1	5288.9	5344.8	5859.8	6437.7	6806.2
17.5°	3928.0	3932.2	3976.8	4084.3	4318.8	4726.4	5209.4	5277.8	5876.6	6562.0	7026.8
20°	4233.7	4204.3	4158.3	4141.5	4242.0	4627.3	5161.9	5238.7	5898.9	6672.2	7225.0
22.5°	5072.6	4986.0	4794.8	4539.4	4384.4	4634.3	5174.5	5251.2	5970.1	6807.6	7453.9
25°	6317.7	6197.6	5872.4	5369.9	4886.9	4835.3	5279.2	5357.3	6108.3	6969.6	7673.1
27.5°	7734.5	7615.8	7218.0	6500.5	5677.0	5233.1	5519.2	5591.8	6313.5	7113.3	7840.6
30°	9091.3	9057.8	8588.8	7773.6	6670.8	5878.0	5829.1	5890.5	6465.6	7199.9	7973.2
32.5°	10241.5	10188.4	9811.5	9018.7	7808.5	6652.7	6193.5	6211.6	6580.1	7311.5	8146.3
35°	11307.9	11242.3	10911.5	10161.9	8975.4	7599.1	6754.6	6728.1	6830.0	7536.3	8397.5
37.5°	12238.9	12299.0	11931.9	11218.6	10022.3	8583.2	7511.1	7431.6	7220.8	7902.0	8761.8
40°	13017.8	13017.8	12826.6	12232.0	11153.0	9600.8	8366.8	8262.1	7808.5	8465.9	9223.9
42.5°	13298.4	13358.4	13429.6	13093.2	12165.0	10658.8	9320.2	9211.3	8636.2	9265.8	9807.3
45°	13315.2	13410.1	13774.4	13773.0	13079.3	11709.9	10395.0	10343.4	9697.1	10293.1	10530.4
47.5°	13079.3	13197.9	13798.1	14138.7	13803.7	12688.4	11570.3	11506.1	10943.6	11552.2	11287.0
50°	12714.9	12846.1	13544.1	14282.5	14296.4	13539.9	12808.5	12712.1	12315.7	12991.3	12068.6
52.5°	12063.1	12317.1	13316.6	14316.0	14620.3	14275.5	13986.6	13944.7	13851.2	14377.4	12691.2
55°	10668.6	10950.6	12745.6	14327.2	14920.4	14927.4	15090.7	15101.9	15290.3	15672.8	13154.6
57.5°	10009.7	10168.9	11749.0	14380.2	15365.7	15667.2	16215.8	16302.3	16594.0	16902.5	13683.7
60°	9595.2	9783.6	11257.6	14307.6	16065.0	16637.3	17258.5	17287.8	17600.5	18171.4	14399.7
62.5°	9264.4	9450.0	10947.8	14028.4	16850.9	17804.3	18277.5	18280.2	18514.8	19683.1	15213.5
65°	8447.8	8604.1	10321.0	13714.4	17370.1	18958.6	19461.1	19443.0	19634.2	21277.2	16158.5
67.5°	7266.9	7386.9	9041.0	12523.7	17174.7	20008.3	21247.9	21187.8	20956.1	22654.9	16529.8
70°	5618.4	5661.6	7125.9	10436.9	15343.3	20411.7	22974.5	22943.8	21767.1	22407.8	15168.9
71°	4644.0	4786.4	6280.0	9211.3	14116.4	20039.0	23142.0	23160.2	21563.3	21735.0	14232.2
72.5°	2696.8	2818.3	4551.9	7074.2	11984.9	18484.0	22273.8	22405.0	20611.3	19769.6	12156.6
75°	577.9	618.4	1687.6	3424.1	6592.7	12955.0	17580.9	18048.5	16799.2	13449.2	7326.9
77.5°	402.0	434.1	723.1	1553.6	2178.9	6401.4	10921.2	11448.9	10036.3	5054.4	2345.1
80°	318.3	354.5	563.9	767.7	589.1	2064.5	5115.8	5438.3	3347.3	1127.9	395.0
82.5°	177.3	210.8	439.7	414.6	226.1	392.2	1432.2	1619.2	670.0	227.5	93.5
85°	51.6	62.8	283.4	301.5	96.3	75.4	244.3	302.9	127.0	60.0	41.9
87.5°	0.0	0.0	136.8	115.9	27.9	11.2	22.3	25.1	25.1	25.1	27.9
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°	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2	5995.2
2.5°	6019.0	6028.7	5993.8	5947.8	5898.9	5838.9	5776.1	5727.2	5725.8	5702.1	5678.4
5°	6093.0	6087.4	5991.1	5844.5	5671.4	5491.3	5319.6	5125.6	5061.4	4981.8	4955.3
7.5°	6229.7	6190.7	5986.9	5665.8	5286.1	4909.3	4519.8	4127.6	3960.1	3809.3	3782.8
10°	6401.4	6327.5	5960.3	5397.8	4701.3	4006.1	3418.5	2885.3	2650.7	2470.7	2462.3
12.5°	6580.1	6467.0	5886.4	4993.0	3934.9	2957.8	2280.8	1756.0	1560.6	1434.9	1446.1
15°	6767.2	6598.3	5727.2	4447.2	3062.5	2007.3	1401.4	1093.0	1014.8	982.7	991.1
17.5°	6958.4	6689.0	5505.3	3789.8	2201.3	1295.4	970.1	883.6	883.6	890.6	893.4
20°	7124.5	6737.8	5178.7	3052.8	1492.2	943.6	848.7	836.1	843.1	854.3	855.7
22.5°	7289.2	6740.6	4752.9	2306.0	1044.1	826.4	808.2	802.6	806.8	819.4	820.8
25°	7423.2	6707.1	4219.7	1640.1	833.3	778.9	770.5	767.7	770.5	785.9	785.9
27.5°	7477.6	6585.7	3569.2	1153.0	746.8	725.8	723.1	725.8	730.0	741.2	742.6
30°	7483.2	6373.5	2860.1	834.7	677.0	654.7	660.2	670.0	665.8	663.0	665.8
32.5°	7497.2	6127.8	2169.2	686.8	618.4	583.5	576.5	576.5	559.7	550.0	544.4
35°	7543.3	5838.9	1573.1	617.0	558.3	517.9	491.3	460.6	428.5	411.8	407.6
37.5°	7615.8	5536.0	1126.5	570.9	505.3	459.2	409.0	354.5	308.5	295.9	295.9
40°	7748.4	5223.3	833.3	534.6	463.4	406.2	330.8	259.6	217.8	210.8	210.8
42.5°	7957.8	4893.9	664.4	502.5	427.1	351.8	252.7	188.4	157.7	153.5	152.1
45°	8175.6	4531.0	580.7	471.8	388.1	288.9	187.0	139.6	121.4	117.3	117.3
47.5°	8393.3	4144.3	540.2	442.5	350.4	224.7	139.6	110.3	101.9	101.9	103.3
50°	8577.6	3740.9	510.9	410.4	301.5	170.3	110.3	93.5	90.7	96.3	97.7
52.5°	8623.7	3344.5	474.6	369.9	241.5	129.8	90.7	82.4	82.4	82.4	82.4
55°	8595.7	3037.4	427.1	319.7	178.7	103.3	78.2	72.6	71.2	71.2	71.2
57.5°	8690.7	2855.9	342.0	248.5	128.4	83.8	68.4	64.2	61.4	60.0	60.0
60°	8881.9	2737.3	244.3	178.7	96.3	69.8	58.6	54.4	50.3	47.5	47.5
62.5°	9135.9	2634.0	181.5	132.6	74.0	55.8	48.9	44.7	39.1	36.3	36.3
65°	9331.4	2449.7	138.2	99.1	55.8	44.7	37.7	36.3	27.9	25.1	23.7
67.5°	9032.6	2044.9	111.7	72.6	41.9	34.9	29.3	27.9	16.8	14.0	14.0
70°	7747.0	1423.8	89.3	53.0	30.7	27.9	23.7	18.1	12.6	11.2	11.2
71°	7025.4	1189.3	81.0	44.7	26.5	26.5	22.3	15.4	11.2	9.8	9.8
72.5°	5836.1	844.5	68.4	34.9	23.7	27.9	23.7	14.0	11.2	9.8	8.4
75°	3387.8	353.2	47.5	23.7	18.1	33.5	30.7	12.6	8.4	7.0	7.0
77.5°	1019.0	129.8	26.5	15.4	14.0	29.3	34.9	11.2	4.2	1.4	1.4
80°	185.7	55.8	16.8	9.8	9.8	18.1	26.5	5.6	0.0	0.0	0.0
82.5°	65.6	27.9	9.8	5.6	4.2	8.4	12.6	0.0	0.0	0.0	0.0
85°	37.7	19.5	5.6	2.8	0.0	1.4	2.8	0.0	0.0	0.0	0.0
87.5°	25.1	5.6	0.0	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)