

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: P322262

Luminaire Tested: **GAN-SA8D-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322262  
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-SA8D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA 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: 45316 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

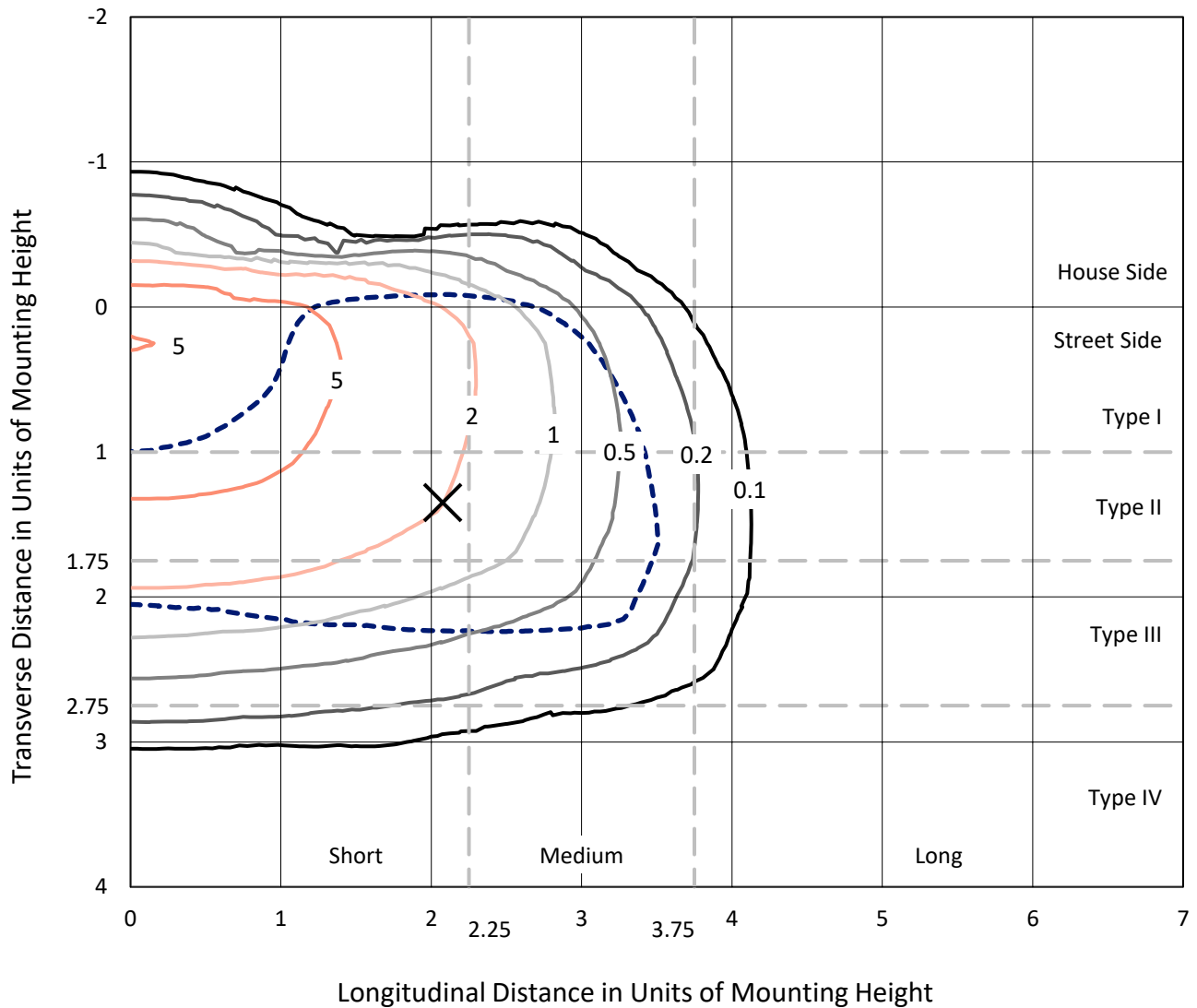
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

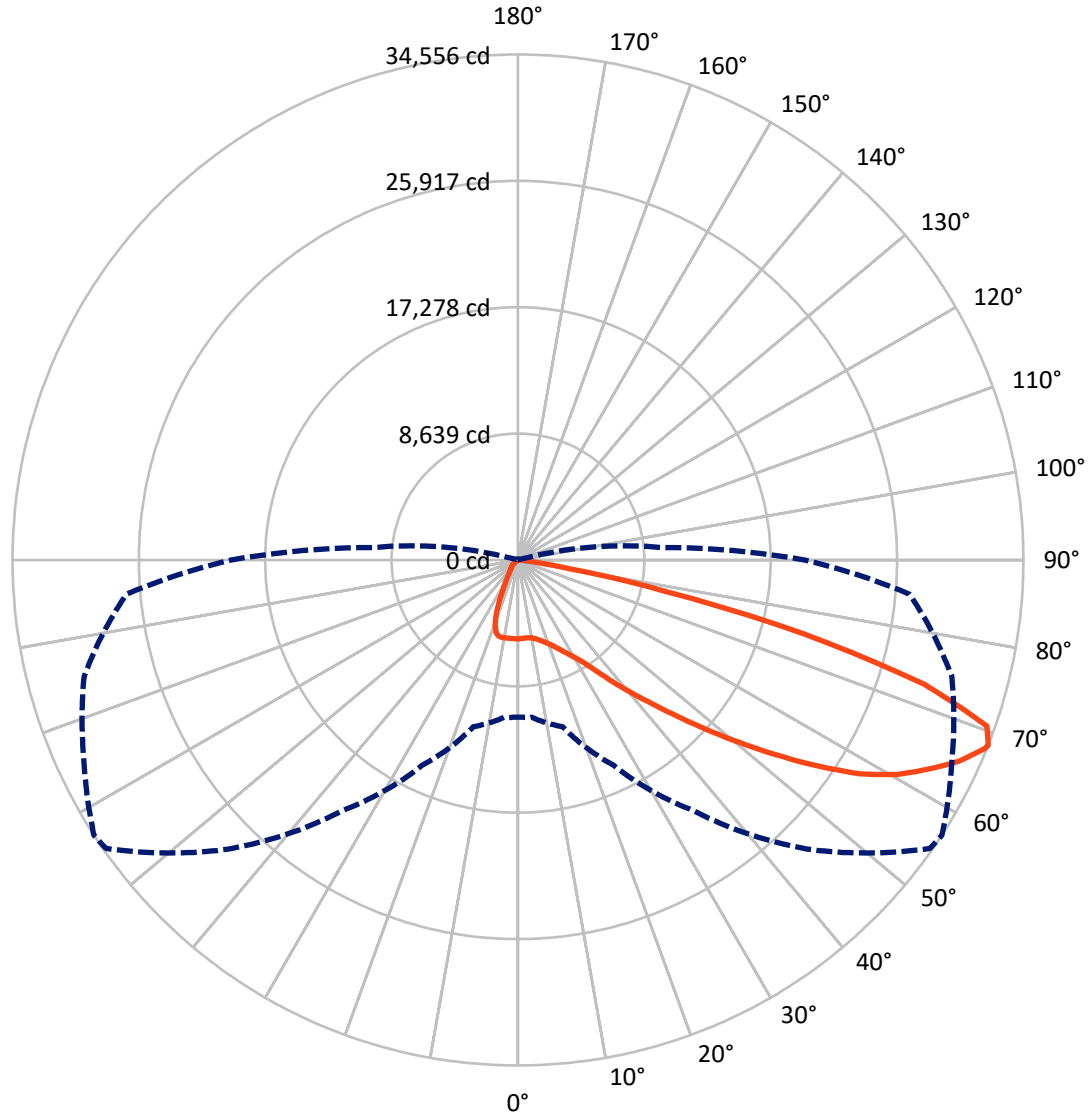
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P322262  
CATALOG NUMBER: GAN-SA8D-740-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P322262

CATALOG NUMBER: GAN-SA8D-740-U-T3-HSS

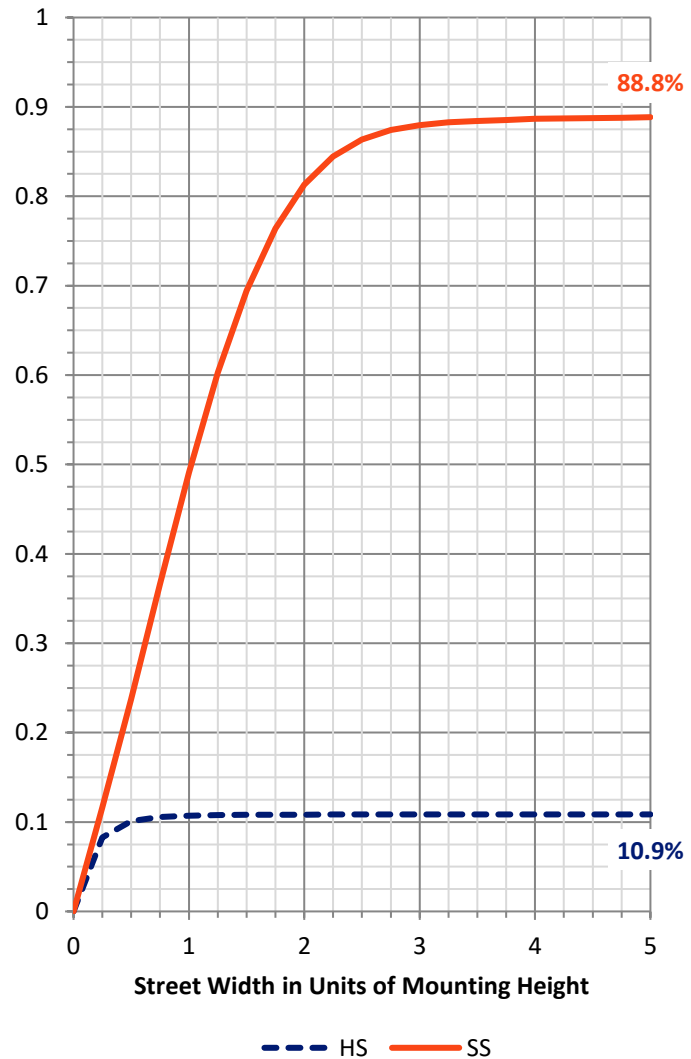
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4969.2	0.0	4969.2
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	40346.8	0.0	40346.8
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	45316.0	0.0	45316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.9	1.1
10°-20°	1396.4	3.1
20°-30°	2409.0	5.3
30°-40°	4157.8	9.2
40°-50°	7112.0	15.7
50°-60°	11378.5	25.1
60°-70°	13146.6	29.0
70°-80°	5023.5	11.1
80°-90°	188.3	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°	45316.0	100.0
0°-180°	45316.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P322262

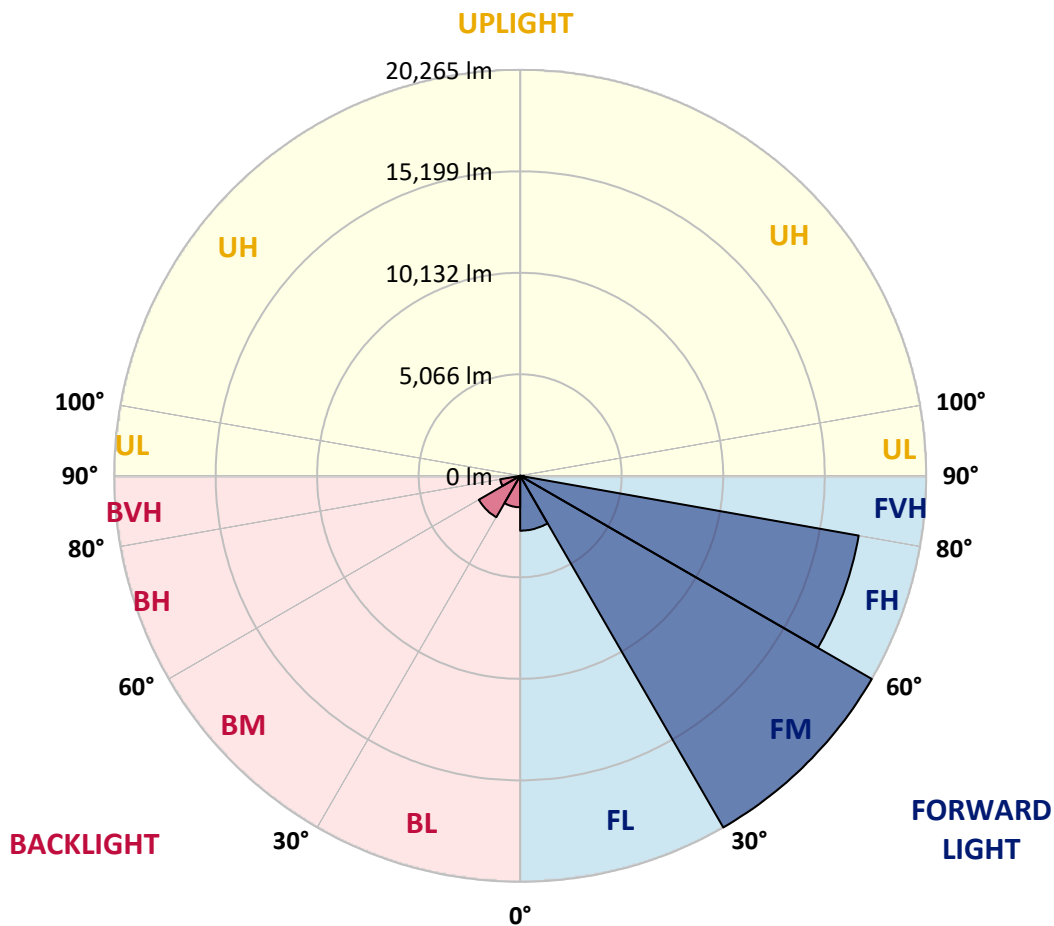
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2738.9	6.0			
FM (30°-60°)	20264.9	44.7			
FH (60°-80°)	17158.1	37.9			G5
FVH (80°-90°)	184.9	0.4			G2/225
BL (0°-30°)	1570.4	3.5	B3/2500		
BM (30°-60°)	2383.3	5.3	B2/2500		
BH (60°-80°)	1012.0	2.2	B3/2500		G3/2500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7
2.5°	5258.3	5281.9	5299.0	5309.7	5322.6	5350.5	5359.0	5371.9	5378.3	5378.3	5393.3
5°	5050.5	5076.2	5112.6	5142.6	5202.6	5279.7	5335.5	5356.9	5395.4	5429.7	5449.0
7.5°	4857.6	4887.6	4930.5	5001.2	5104.0	5228.3	5344.0	5374.0	5449.0	5521.9	5558.3
10°	4733.3	4756.9	4812.6	4913.3	5048.3	5221.9	5384.7	5421.2	5549.7	5671.9	5740.4
12.5°	4690.5	4711.9	4769.8	4883.3	5050.5	5254.0	5479.0	5532.6	5721.1	5899.0	5995.4
15°	4752.6	4756.9	4819.0	4926.2	5091.2	5333.3	5635.4	5699.7	5937.6	6169.0	6289.0
17.5°	4992.6	4973.3	5005.5	5052.6	5183.3	5438.3	5800.4	5896.9	6214.0	6486.1	6599.7
20°	5592.6	5592.6	5519.7	5391.2	5393.3	5601.2	6023.3	6132.6	6520.4	6835.4	6938.2
22.5°	6619.0	6599.7	6454.0	6139.0	5849.7	5881.9	6295.4	6436.8	6888.9	7225.4	7259.6
25°	7853.2	7829.6	7604.6	7161.1	6659.7	6336.1	6664.0	6826.8	7328.2	7626.1	7555.3
27.5°	9160.3	9141.0	8918.1	8367.4	7653.9	7060.4	7103.2	7257.5	7776.0	8069.6	7844.6
30°	10426.6	10433.1	10212.4	9646.7	8838.9	7983.9	7660.3	7750.3	8211.0	8508.9	8187.5
32.5°	11630.9	11639.4	11448.7	10816.6	10062.4	9057.4	8431.7	8408.2	8716.7	9010.3	8641.7
35°	12704.4	12725.8	12595.1	12104.4	11305.2	10253.1	9432.4	9376.7	9434.5	9766.7	9338.1
37.5°	13739.3	13752.2	13653.6	13240.1	12571.5	11566.6	10696.6	10617.3	10493.1	10748.0	10257.4
40°	14872.8	14840.7	14727.1	14352.2	13777.9	13017.2	12055.1	11918.0	11701.6	11928.7	11465.9
42.5°	15927.1	15890.6	15909.9	15485.7	15001.4	14508.6	13638.6	13402.9	13276.5	13537.9	12948.6
45°	17244.9	17225.6	17289.9	16921.3	16529.2	16171.3	15453.5	15196.4	15140.7	15447.1	14742.1
47.5°	18545.5	18592.7	18791.9	18635.5	18476.9	18162.0	17375.6	17259.9	17294.2	17664.8	16634.2
50°	19629.8	19685.5	20231.9	20411.9	20641.1	20456.9	19668.3	19597.6	19732.6	20066.9	18669.8
52.5°	20414.0	20527.6	21206.8	22036.1	22871.7	22996.0	22209.6	22145.3	22327.5	22378.9	20242.6
55°	20958.3	21059.0	21828.2	23345.3	25046.6	25582.3	25093.8	24845.2	24810.9	24303.1	21896.8
57.5°	21054.7	21044.0	22149.6	24191.7	26752.3	28134.3	27825.8	27581.5	26878.7	26081.6	23793.1
60°	20510.4	20572.6	21856.1	24485.2	27823.6	30065.0	30088.5	29771.4	28676.4	27810.8	25631.6
62.5°	18834.8	19087.6	20384.0	23716.0	27810.8	30842.8	31747.0	31504.9	30195.7	29227.1	27495.8
65°	16117.8	16207.8	17444.1	21080.4	25931.6	30517.1	33240.5	33150.5	31564.9	30602.8	28453.6
67.5°	11770.1	11575.1	12873.7	16599.9	21954.6	28618.6	34311.9	34425.5	32621.3	30885.6	27433.7
68°	10741.6	10799.5	11810.8	15492.1	20913.3	27947.9	34382.6	34556.2	32726.2	30701.3	26876.5
70°	6402.5	6514.0	7416.1	10666.6	15909.9	24153.1	33619.8	34016.2	32100.6	28800.7	23246.7
72.5°	1634.9	1767.8	2620.6	4774.1	9087.4	17017.7	28380.7	29051.4	27870.8	23364.6	15693.5
75°	672.8	707.1	936.4	1572.8	3385.5	7666.8	18706.2	20141.9	19321.2	13987.9	7092.5
77.5°	465.0	488.5	602.1	872.1	1465.6	2599.2	9171.0	10208.1	9196.7	4774.1	1547.1
80°	334.3	353.6	430.7	580.7	842.1	927.8	2989.1	3456.3	2744.9	1047.8	383.6
82.5°	199.3	214.3	321.4	413.6	512.1	443.5	743.5	844.2	795.0	520.7	171.4
85°	98.6	115.7	216.4	295.7	276.4	186.4	227.1	252.8	312.8	317.1	92.1
87.5°	6.4	12.9	126.4	177.8	77.1	42.9	66.4	81.4	111.4	156.4	38.6
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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CATALOG NUMBER: GAN-SA8D-740-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7	5384.7
2.5°	5399.7	5401.9	5386.9	5380.5	5384.7	5359.0	5348.3	5352.6	5352.6	5359.0	5348.3
5°	5453.3	5453.3	5427.6	5393.3	5374.0	5324.7	5292.6	5284.0	5277.6	5273.3	5264.7
7.5°	5569.0	5556.2	5511.2	5436.2	5371.9	5264.7	5183.3	5140.5	5119.0	5110.5	5104.0
10°	5755.4	5731.9	5656.9	5517.6	5369.7	5179.0	5001.2	4874.8	4769.8	4726.9	4701.2
12.5°	6006.1	5971.8	5845.4	5614.0	5354.7	5003.3	4617.6	4246.9	3902.0	3760.5	3689.8
15°	6295.4	6246.1	6046.8	5695.4	5266.9	4606.9	3769.1	3119.8	2642.0	2462.0	2384.9
17.5°	6589.0	6524.7	6222.6	5746.9	5003.3	3786.2	2644.2	1997.0	1677.8	1592.1	1562.1
20°	6884.7	6790.4	6374.7	5708.3	4407.6	2729.9	1744.2	1459.2	1367.1	1341.4	1332.8
22.5°	7165.4	7019.7	6511.8	5558.3	3490.5	1832.1	1379.9	1289.9	1259.9	1244.9	1240.7
25°	7409.6	7206.1	6631.8	5095.5	2470.6	1384.2	1242.8	1212.8	1174.2	1146.4	1148.5
27.5°	7638.9	7392.5	6704.7	4332.6	1647.8	1182.8	1150.7	1109.9	1039.2	998.5	998.5
30°	7915.3	7641.1	6758.2	3334.1	1212.8	1045.7	1019.9	957.8	861.4	807.8	807.8
32.5°	8331.0	8018.2	6724.0	2339.9	1005.0	919.2	859.2	773.5	668.5	617.1	615.0
35°	8967.4	8601.0	6479.7	1534.2	887.1	799.2	702.8	597.8	505.7	462.8	460.7
37.5°	9824.5	9381.0	5931.1	1097.1	795.0	687.8	572.1	456.4	387.8	360.0	357.8
40°	10936.6	10287.4	5146.9	889.2	709.3	580.7	441.4	353.6	306.4	285.0	287.1
42.5°	12271.5	11258.0	4206.2	767.1	625.7	477.8	345.0	278.6	248.6	233.6	229.3
45°	13754.3	12215.8	3220.6	683.5	542.1	385.7	270.0	220.7	197.1	188.6	188.6
47.5°	15385.0	13147.9	2357.0	610.7	452.1	297.8	216.4	180.0	160.7	154.3	152.1
50°	16865.6	13795.0	1699.2	533.5	370.7	235.7	175.7	150.0	137.1	128.6	128.6
52.5°	18099.8	13998.6	1251.4	450.0	300.0	188.6	145.7	128.6	115.7	109.3	109.3
55°	19186.2	13915.0	930.0	370.7	242.1	154.3	124.3	109.3	98.6	92.1	92.1
57.5°	20227.6	13645.0	694.3	302.1	195.0	124.3	105.0	92.1	81.4	77.1	77.1
60°	21078.3	13195.1	516.4	244.3	156.4	100.7	87.9	75.0	66.4	60.0	60.0
62.5°	21768.2	12697.9	379.3	201.4	124.3	79.3	68.6	62.1	49.3	42.9	42.9
65°	21772.5	11873.0	285.0	167.1	96.4	62.1	51.4	49.3	32.1	25.7	23.6
67.5°	20197.6	10235.9	218.6	143.6	75.0	47.1	38.6	40.7	17.1	10.7	8.6
68°	19625.5	9820.2	205.7	141.4	70.7	45.0	36.4	40.7	15.0	8.6	6.4
70°	16546.3	7812.5	165.0	137.1	62.1	34.3	30.0	40.7	12.9	6.4	4.3
72.5°	10583.1	4534.1	122.1	109.3	47.1	25.7	19.3	36.4	12.9	4.3	2.1
75°	4504.1	1405.6	83.6	77.1	27.9	19.3	12.9	23.6	8.6	2.1	0.0
77.5°	949.2	317.1	49.3	47.1	19.3	12.9	8.6	6.4	2.1	0.0	0.0
80°	244.3	92.1	25.7	23.6	10.7	6.4	4.3	0.0	0.0	0.0	0.0
82.5°	77.1	36.4	15.0	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	21.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	6.4	2.1	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)