

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: P322883

Luminaire Tested: **GAN-SA9B-740-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37029 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

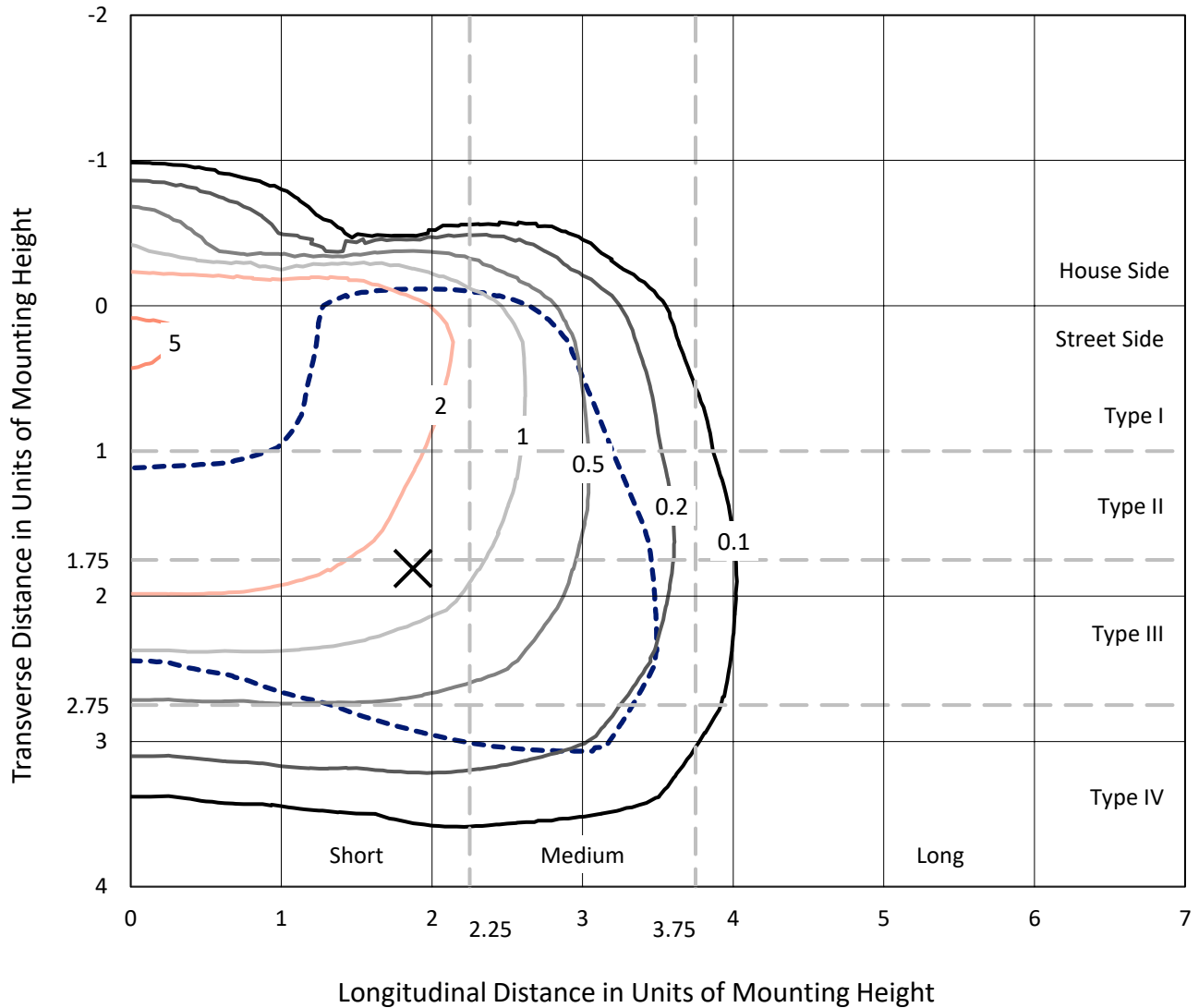
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

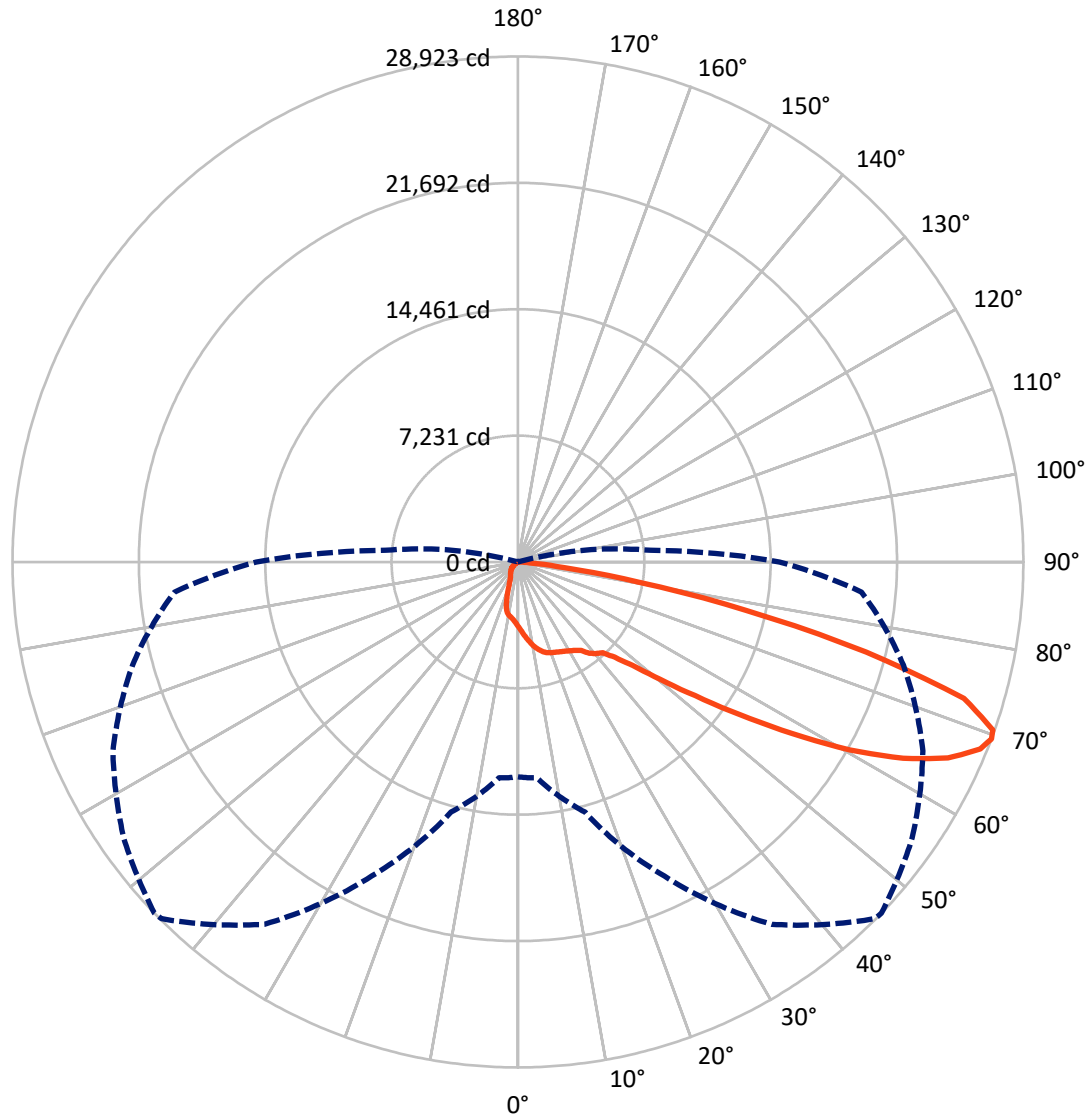
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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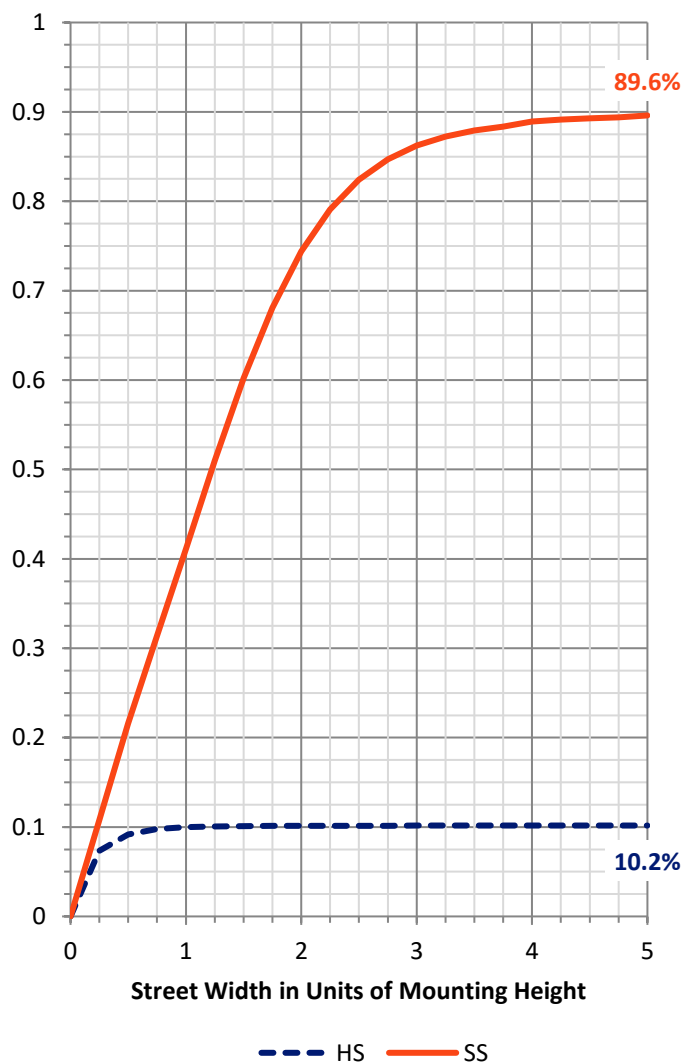
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3800.2	0.0	3800.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	33228.8	0.0	33228.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	37029.0	0.0	37029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.3	1.0
10°-20°	1120.3	3.0
20°-30°	1761.9	4.8
30°-40°	2526.6	6.8
40°-50°	4366.9	11.8
50°-60°	8627.2	23.3
60°-70°	12057.3	32.6
70°-80°	5825.0	15.7
80°-90°	374.4	1.0
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°	37029.0	100.0
0°-180°	37029.0	100.0

**Coefficient of Utilization**



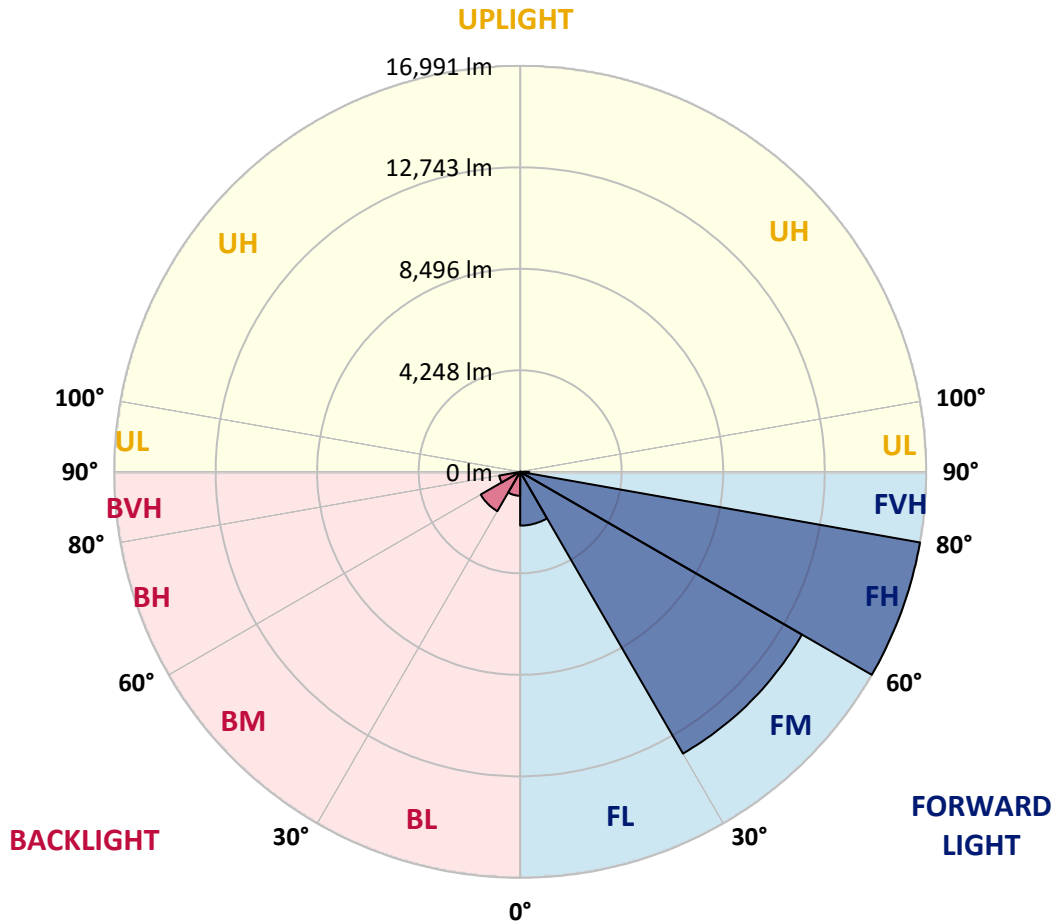
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.0	6.1			
FM (30°-60°)	13616.4	36.8			
FH (60°-80°)	16991.2	45.9			G5
FVH (80°-90°)	371.2	1.0			G3/500
BL (0°-30°)	1001.6	2.7	B3/2500		
BM (30°-60°)	1904.4	5.1	B2/2500		
BH (60°-80°)	891.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.1	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2
2.5°	4121.6	4116.4	4092.1	4081.7	4022.7	3988.0	3974.1	3930.7	3868.2	3805.7	3736.2
5°	4590.4	4588.7	4543.5	4500.1	4389.0	4284.8	4265.7	4165.0	4024.4	3892.5	3760.5
7.5°	5069.6	5047.0	5001.9	4918.5	4757.1	4590.4	4574.8	4432.4	4232.8	4041.8	3852.5
10°	5475.8	5461.9	5402.9	5276.2	5086.9	4897.7	4878.6	4703.2	4477.5	4243.2	4001.8
12.5°	5791.8	5781.4	5703.3	5545.3	5343.9	5147.7	5121.7	4965.4	4724.1	4461.9	4177.2
15°	5984.5	5979.3	5883.8	5715.4	5517.5	5347.4	5324.8	5187.6	4963.7	4689.4	4368.2
17.5°	6029.7	6031.4	5932.4	5762.3	5599.1	5477.6	5460.2	5356.0	5168.5	4896.0	4559.1
20°	5929.0	5949.8	5861.3	5713.7	5613.0	5548.8	5534.9	5472.4	5314.4	5057.4	4711.9
22.5°	5786.6	5797.0	5736.3	5637.3	5595.6	5607.8	5600.8	5566.1	5432.4	5196.3	4863.0
25°	5699.8	5699.8	5663.3	5580.0	5607.8	5682.4	5684.2	5677.2	5571.3	5366.5	5047.0
27.5°	5696.3	5685.9	5644.2	5581.7	5658.1	5772.7	5779.7	5826.5	5760.6	5573.1	5276.2
30°	5835.2	5823.1	5734.5	5652.9	5750.2	5873.4	5890.8	5993.2	5960.2	5797.0	5531.4
32.5°	6159.9	6116.5	5920.3	5786.6	5859.5	6007.1	6029.7	6192.9	6245.0	6073.1	5777.9
35°	6604.3	6467.2	6184.2	6040.1	6047.0	6201.6	6222.4	6462.0	6616.5	6326.6	5968.9
37.5°	7217.2	7149.5	6689.4	6304.0	6335.2	6569.6	6630.4	6890.8	6847.4	6465.4	6185.9
40°	8561.0	8455.1	7965.5	7043.6	6611.3	6868.2	6887.3	7026.2	7029.7	6779.7	6637.3
42.5°	10390.9	10347.5	9831.9	8385.6	7154.7	7067.9	7102.6	7337.0	7599.2	7442.9	7436.0
45°	12417.0	12394.4	11847.5	10166.9	8253.7	7722.4	7765.8	8080.1	8581.8	8616.5	8837.0
47.5°	14047.2	14036.8	13722.6	12154.8	9936.0	8831.8	8845.7	9179.1	10061.0	10496.8	10849.2
50°	15533.4	15583.7	15335.5	14305.9	12227.8	10569.7	10536.7	10759.0	12175.7	12889.2	13326.7
52.5°	17599.4	17670.6	16974.4	16312.9	14632.3	12726.0	12700.0	12932.6	14717.4	15252.1	15330.3
55°	19424.1	19302.6	18752.2	18561.3	17564.7	15389.3	15382.4	15587.2	17175.8	17403.2	17547.3
57.5°	20229.7	20182.8	20448.5	20886.0	20636.0	18536.9	18521.3	18365.1	19375.5	19399.8	19842.5
60°	20738.4	20795.7	21609.9	22958.9	23582.2	21924.2	21823.5	20870.3	21476.3	21422.4	21896.4
62.5°	20356.4	20469.3	21934.6	24182.9	25787.1	24880.9	24738.5	23165.5	23271.4	23085.7	23526.7
65°	18328.6	18504.0	20905.1	23952.0	26880.9	27191.7	27047.6	25191.6	24696.8	24391.3	24146.5
67.5°	14882.3	14986.5	17493.5	21943.3	26387.8	28570.2	28540.7	26967.7	25773.2	24170.8	22271.4
69°	12298.9	12401.4	14814.6	19828.6	25302.8	28865.3	28922.6	27537.2	25568.4	22830.5	19733.2
70°	10416.9	10526.3	12774.6	18016.1	24044.0	28728.2	28830.6	27483.4	24981.6	21278.3	17505.7
72.5°	5463.7	5557.4	7864.8	12411.8	19601.2	26379.2	26689.9	25160.4	21175.9	15453.5	10351.0
75°	1717.1	1770.9	3071.3	6488.0	13420.5	20511.0	20582.1	19736.6	15036.9	8500.2	4310.9
77.5°	654.5	638.9	1022.6	2390.7	6784.9	12915.3	13351.0	12333.7	7890.8	3005.3	994.8
80°	352.4	354.2	531.3	989.6	2902.9	6637.3	7005.4	5977.6	2803.9	937.5	229.2
82.5°	152.8	159.7	298.6	524.3	1333.4	2448.0	2632.0	2191.0	1071.2	630.2	85.1
85°	33.0	36.5	144.1	284.7	543.4	687.5	720.5	710.1	682.3	489.6	33.0
87.5°	0.0	0.0	64.2	102.4	137.2	156.3	137.2	178.8	376.7	329.9	17.4
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°	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2	3710.2
2.5°	3713.6	3682.4	3628.6	3569.5	3527.9	3484.5	3449.7	3434.1	3416.8	3404.6	3420.2
5°	3706.7	3645.9	3541.8	3441.1	3368.1	3309.1	3260.5	3241.4	3222.3	3208.4	3206.7
7.5°	3767.5	3682.4	3522.7	3375.1	3262.2	3182.4	3116.4	3088.6	3066.1	3055.6	3047.0
10°	3883.8	3774.4	3560.9	3368.1	3222.3	3086.9	2944.5	2835.1	2764.0	2731.0	2718.8
12.5°	4034.8	3897.7	3633.8	3404.6	3192.8	2932.4	2630.3	2369.9	2201.4	2145.9	2112.9
15°	4211.9	4041.8	3729.3	3451.5	3085.2	2609.4	2097.3	1757.0	1600.7	1569.5	1534.8
17.5°	4382.1	4194.6	3843.9	3460.2	2849.0	2085.1	1536.5	1305.6	1244.8	1265.7	1270.9
20°	4531.4	4345.6	3956.7	3383.8	2420.2	1564.3	1189.3	1132.0	1154.5	1194.5	1201.4
22.5°	4682.4	4491.4	4060.9	3182.4	1871.6	1187.5	1071.2	1085.1	1107.7	1147.6	1154.5
25°	4866.4	4668.5	4158.1	2812.6	1404.6	1010.4	1017.4	1038.2	1060.8	1097.3	1100.7
27.5°	5078.3	4892.5	4222.3	2331.7	1041.7	928.8	951.4	982.7	1005.2	1040.0	1046.9
30°	5359.5	5187.6	4243.2	1833.4	873.3	855.9	866.3	904.5	937.5	968.8	974.0
32.5°	5623.4	5479.3	4173.7	1383.7	809.0	788.2	788.2	810.8	849.0	878.5	885.4
35°	5866.5	5772.7	3951.5	1012.2	760.4	725.7	708.4	708.4	732.7	757.0	763.9
37.5°	6187.7	6184.2	3592.1	807.3	713.6	673.6	637.2	609.4	600.7	605.9	609.4
40°	6738.0	6743.2	3123.3	724.0	673.6	619.8	564.3	513.9	467.0	451.4	449.7
42.5°	7597.4	7519.3	2632.0	684.0	638.9	564.3	480.9	413.2	340.3	317.7	316.0
45°	8962.0	8498.5	2111.2	647.6	602.4	501.7	397.6	305.6	246.5	229.2	229.2
47.5°	10949.9	9785.0	1635.5	607.7	553.8	430.6	300.4	220.5	180.6	171.9	173.6
50°	13005.6	11045.4	1253.5	557.3	494.8	355.9	222.2	159.7	137.2	137.2	138.9
52.5°	14828.5	11969.1	977.5	503.5	421.9	279.5	168.4	125.0	114.6	112.9	114.6
55°	16535.2	12564.6	748.3	441.0	335.1	208.3	128.5	102.4	95.5	92.0	90.3
57.5°	18181.0	12859.7	560.8	355.9	243.1	151.0	102.4	86.8	79.9	74.7	72.9
60°	19276.6	12620.1	385.4	262.2	168.4	109.4	85.1	74.7	66.0	60.8	59.0
62.5°	19894.6	11965.6	248.3	189.2	119.8	81.6	67.7	62.5	50.3	45.1	45.1
65°	19644.6	10885.7	173.6	135.4	86.8	60.8	50.3	50.3	36.5	29.5	27.8
67.5°	17408.4	9196.4	131.9	100.7	62.5	45.1	38.2	43.4	22.6	13.9	13.9
69°	14977.8	7621.7	112.9	83.3	52.1	36.5	33.0	39.9	15.6	10.4	8.7
70°	13017.7	6574.8	102.4	72.9	43.4	31.3	29.5	38.2	15.6	8.7	6.9
72.5°	7788.4	3666.8	78.1	52.1	27.8	24.3	24.3	43.4	15.6	8.7	6.9
75°	3147.7	1291.7	57.3	36.5	20.8	20.8	29.5	55.6	13.9	6.9	5.2
77.5°	713.6	283.0	33.0	22.6	13.9	20.8	34.7	43.4	8.7	3.5	0.0
80°	173.6	69.4	20.8	13.9	8.7	15.6	26.0	24.3	1.7	0.0	0.0
82.5°	57.3	24.3	8.7	6.9	1.7	5.2	12.2	6.9	0.0	0.0	0.0
85°	24.3	13.9	3.5	1.7	0.0	0.0	1.7	0.0	0.0	0.0	0.0
87.5°	15.6	5.2	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)