

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: P321232

Luminaire Tested: **GAN-SA8A-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27454 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

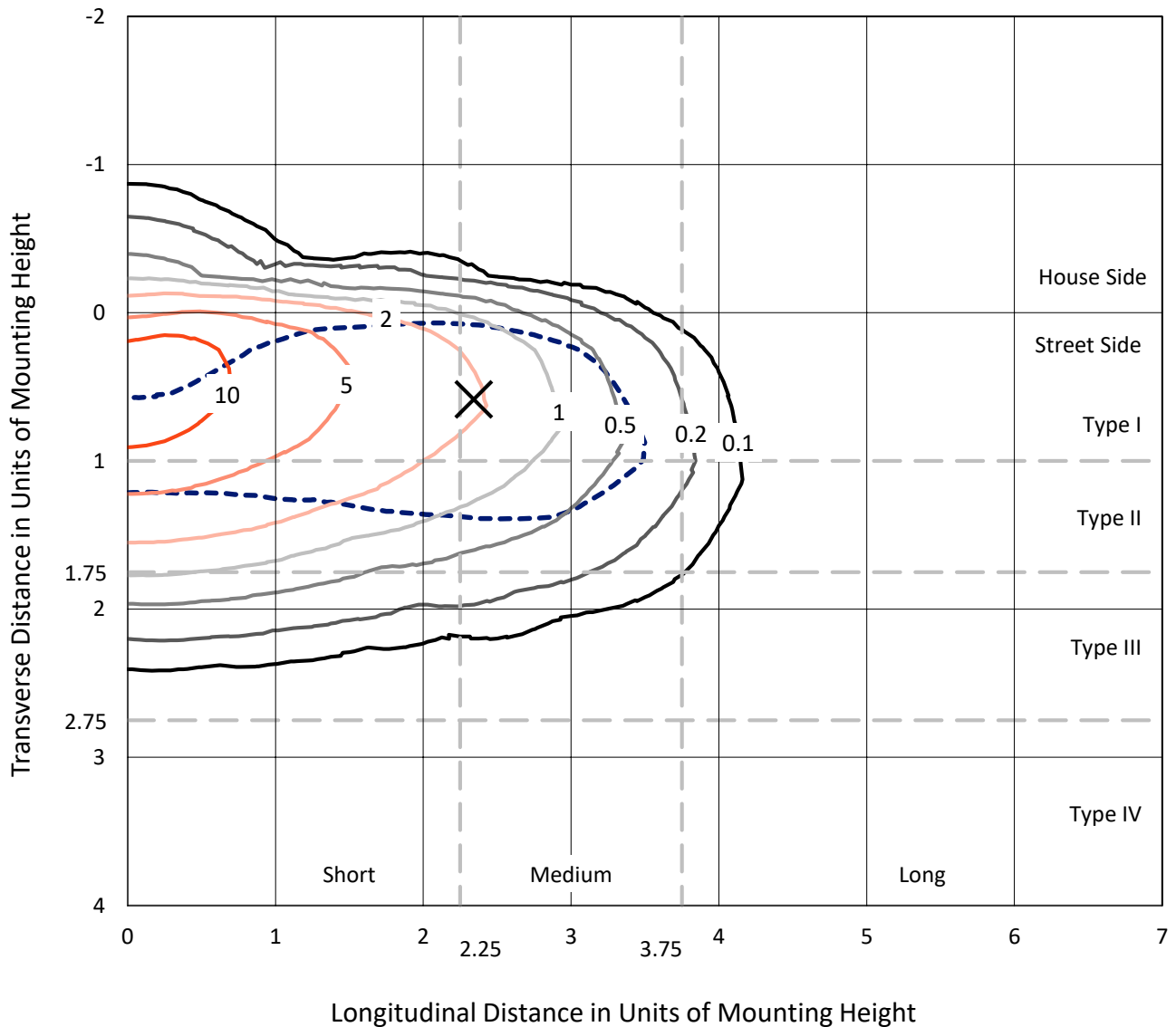
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

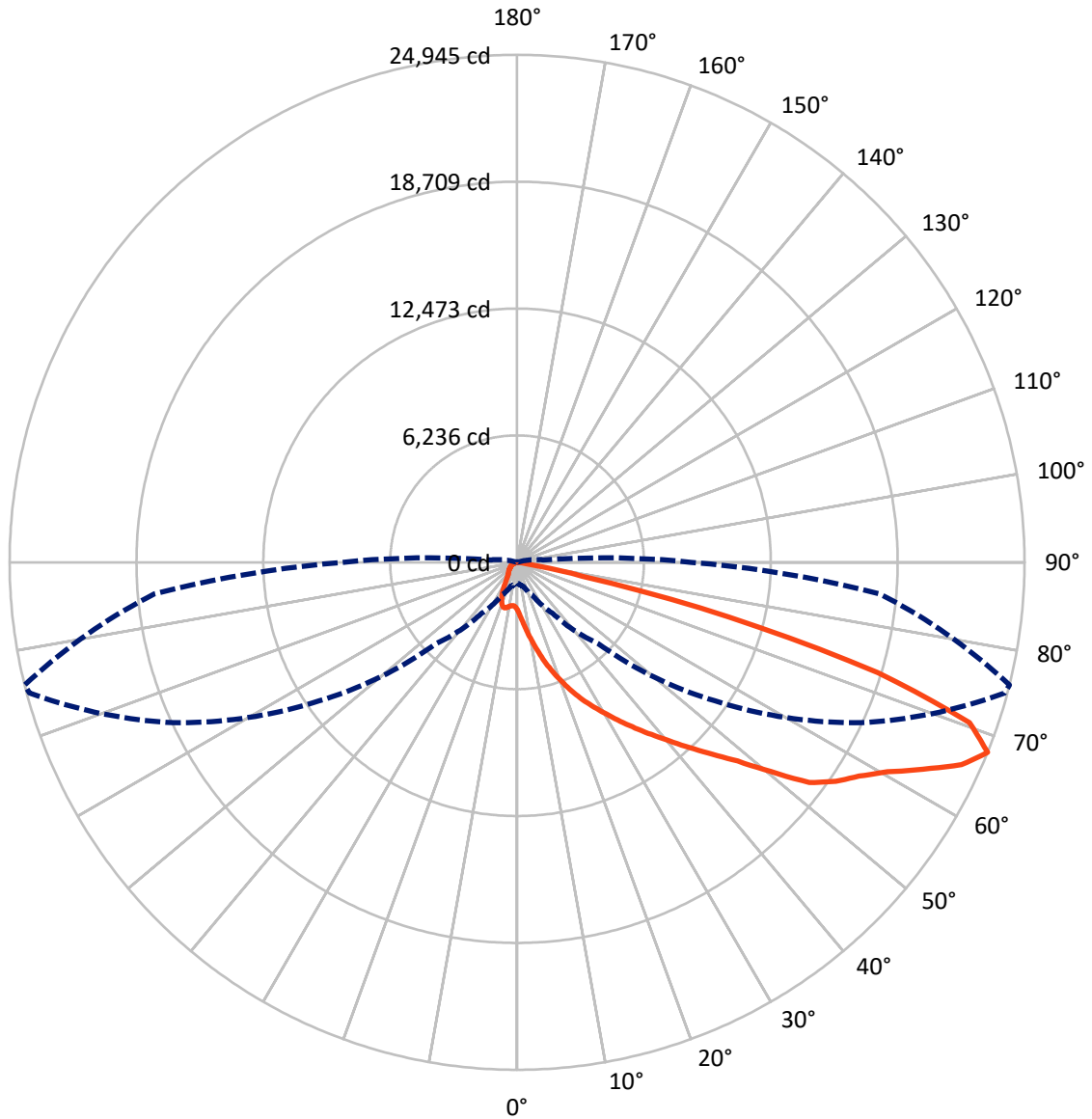
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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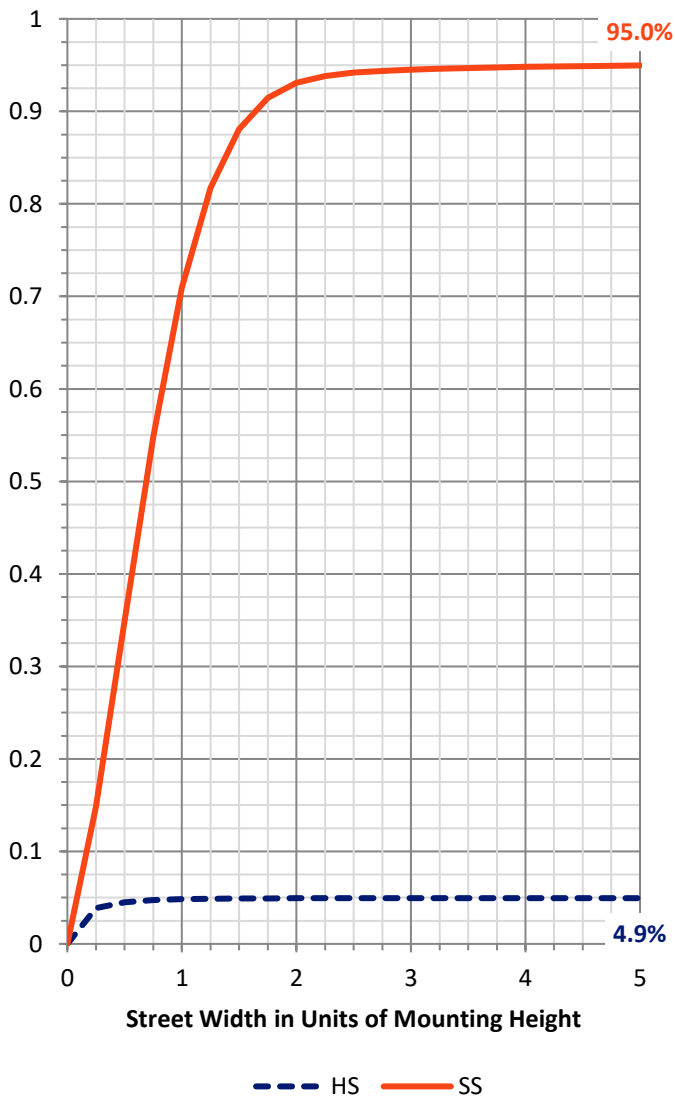
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1363.3	0.0	1363.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	26090.7	0.0	26090.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	27454.0	0.0	27454.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.6	1.1
10°-20°	1148.0	4.2
20°-30°	2335.8	8.5
30°-40°	4054.2	14.8
40°-50°	5728.0	20.9
50°-60°	6495.9	23.7
60°-70°	5387.7	19.6
70°-80°	1951.6	7.1
80°-90°	63.3	0.2
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°	27454.0	100.0
0°-180°	27454.0	100.0

**Coefficient of Utilization**

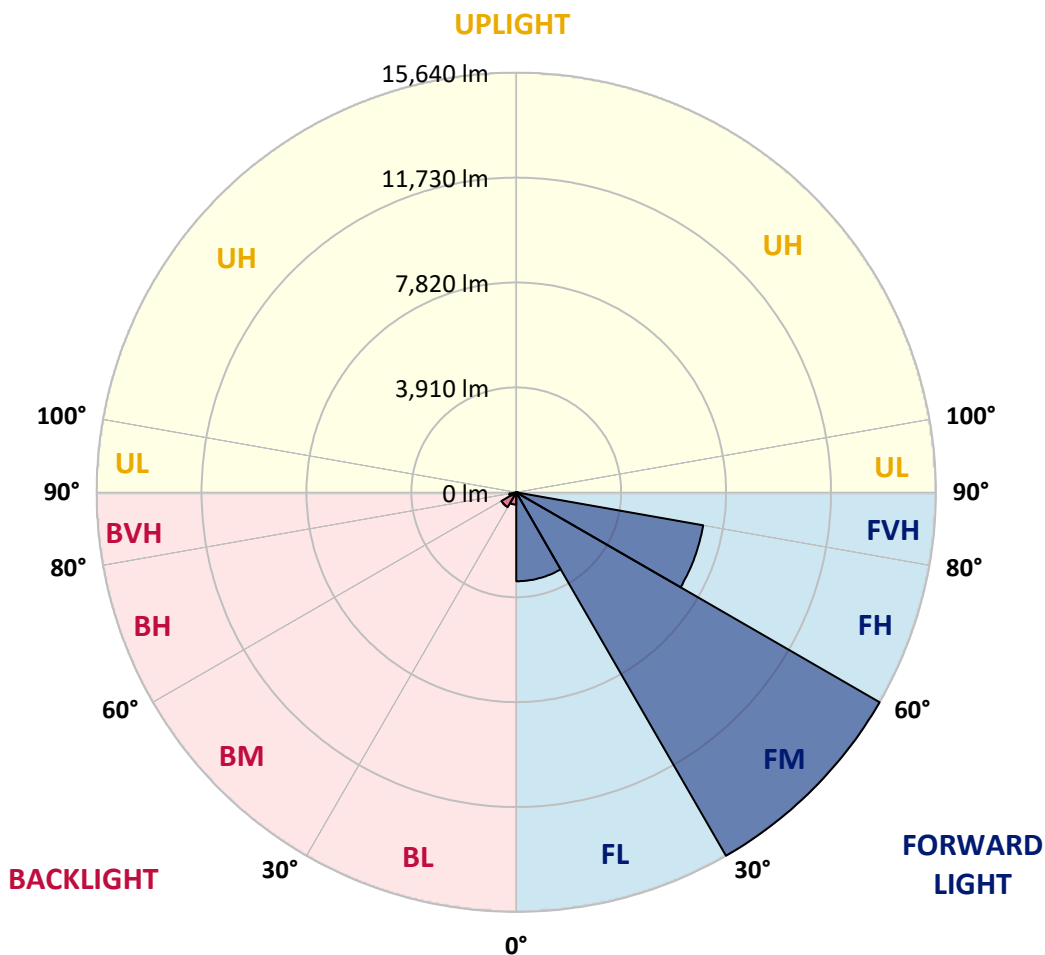


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3313.6	12.1			
FM (30°-60°)	15640.0	57.0			
FH (60°-80°)	7075.8	25.8			G3/7500
FVH (80°-90°)	61.3	0.2			G1/100
BL (0°-30°)	459.8	1.7	B1/500		
BM (30°-60°)	638.1	2.3	B1/1000		
BH (60°-80°)	263.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9
2.5°	3476.5	3398.3	3416.4	3365.8	3274.4	3086.7	2926.8	2775.2	2598.4	2592.3	2446.8
5°	4687.9	4621.7	4613.3	4511.0	4345.0	4026.2	3715.9	3362.2	2967.7	2938.8	2629.6
7.5°	5787.4	5734.4	5715.2	5593.7	5284.5	4974.2	4570.0	4050.3	3433.2	3380.3	2876.2
10°	6631.8	6606.6	6611.4	6524.8	6260.1	5971.4	5440.9	4778.1	3961.3	3879.5	3172.2
12.5°	7271.8	7277.8	7321.1	7268.2	7120.2	6906.1	6339.5	5554.0	4545.9	4434.0	3510.2
15°	7742.1	7772.2	7851.6	7917.8	7906.9	7721.7	7202.0	6341.9	5166.6	5042.7	3886.7
17.5°	8046.5	8080.2	8195.6	8342.4	8477.1	8433.8	8034.4	7102.2	5794.6	5651.4	4289.7
20°	8313.5	8353.2	8477.1	8670.8	8922.2	8976.3	8714.1	7839.6	6421.3	6246.9	4705.9
22.5°	8892.1	8890.9	8966.7	9079.8	9319.2	9458.7	9292.7	8524.0	7040.8	6859.2	5130.5
25°	9938.7	9899.0	9872.5	9783.5	9836.5	9923.1	9830.4	9164.0	7663.9	7479.9	5561.2
27.5°	11182.5	11206.6	10992.5	10753.1	10567.8	10478.8	10327.3	9757.1	8263.0	8060.9	5982.2
30°	12495.0	12502.2	12249.6	11944.0	11536.2	11198.2	10935.9	10323.6	8878.9	8658.8	6391.2
32.5°	13678.6	13631.7	13381.5	12965.3	12450.4	12070.3	11525.4	10956.4	9530.9	9318.0	6845.9
35°	14616.9	14561.6	14257.3	13878.3	13344.2	12961.7	12306.1	11587.9	10216.6	10008.5	7301.9
37.5°	15302.6	15237.7	14924.9	14535.1	14074.4	13851.9	13211.9	12274.8	10964.8	10741.1	7781.8
40°	15540.8	15484.3	15288.2	15003.1	14632.6	14582.1	14173.1	13065.1	11779.2	11541.0	8325.6
42.5°	15398.9	15343.5	15273.7	15177.5	15023.5	15071.7	15080.1	13966.1	12683.8	12449.2	8925.8
45°	14835.9	14786.6	14858.7	14999.5	15190.7	15428.9	15907.7	14934.5	13694.3	13444.1	9619.9
47.5°	14007.0	13971.0	14170.6	14521.9	15081.3	15738.1	16664.3	15952.2	14828.7	14596.5	10486.0
50°	12828.2	12822.2	13221.5	13862.7	14722.8	15887.2	17446.3	17109.4	16404.5	16160.3	11690.2
52.5°	10992.5	11004.5	11790.0	12816.1	14093.7	15786.2	17949.1	18596.3	18237.8	17984.0	12733.1
55°	9244.6	9316.8	9873.7	11353.4	13128.9	15410.9	18122.3	19290.4	19249.5	19008.9	13313.0
57.5°	7532.8	7663.9	8200.5	9582.6	11720.3	14546.0	18027.3	19591.1	20002.5	19818.5	14078.0
60°	5677.9	5738.0	6356.3	7648.3	9912.2	12967.7	17338.0	19754.7	21032.2	20904.7	15188.3
62.5°	3612.4	3762.8	4311.3	5557.6	7718.1	10775.9	16176.0	19752.3	22320.6	22390.3	16621.0
65°	1903.1	2078.7	2369.8	3444.0	5303.8	8328.0	14428.1	19567.0	23901.2	23998.7	17741.0
67.5°	1026.1	1076.6	1230.6	1787.6	3075.9	5641.8	11859.8	18652.8	24816.7	24945.4	17897.4
70°	750.6	778.3	836.0	988.8	1548.2	3276.8	8654.0	16580.1	23636.6	23588.5	15901.7
72.5°	576.2	619.5	662.8	724.2	890.2	1749.1	5388.0	12983.3	18859.7	18542.1	11886.3
75°	454.7	461.9	523.3	578.6	667.6	996.0	2392.7	7561.7	11510.9	10759.1	6163.9
77.5°	363.3	368.1	404.2	452.3	536.5	654.4	741.0	2974.9	3675.0	3279.2	1337.7
80°	215.3	227.4	300.7	348.9	445.1	412.6	270.7	646.0	573.8	519.7	225.0
82.5°	120.3	129.9	169.6	275.5	310.4	197.3	134.7	174.4	134.7	131.1	63.8
85°	0.0	6.0	109.5	170.8	126.3	43.3	56.5	57.7	39.7	37.3	25.3
87.5°	0.0	0.0	33.7	32.5	4.8	7.2	13.2	19.2	15.6	15.6	13.2
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°	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9	2328.9
2.5°	2374.6	2309.6	2186.9	2066.7	1965.6	1882.6	1808.0	1777.9	1753.9	1750.3	1731.0
5°	2480.5	2349.3	2114.8	1922.3	1793.6	1702.2	1624.0	1575.9	1538.6	1524.1	1510.9
7.5°	2640.5	2442.0	2105.1	1883.8	1729.8	1575.9	1431.5	1275.1	1177.7	1140.4	1118.7
10°	2835.3	2564.7	2141.2	1873.0	1603.5	1278.7	1039.3	840.9	760.3	733.8	726.6
12.5°	3062.7	2717.4	2203.8	1805.6	1334.1	908.2	717.0	649.6	631.5	623.1	623.1
15°	3323.7	2884.7	2248.3	1610.7	986.4	686.9	620.7	589.4	570.2	559.4	560.6
17.5°	3590.8	3048.3	2226.6	1328.0	727.8	611.1	561.8	528.1	501.6	490.8	488.4
20°	3860.2	3199.8	2106.4	988.8	615.9	554.6	499.2	461.9	435.5	424.6	422.2
22.5°	4139.3	3328.5	1894.6	725.4	553.4	492.0	437.9	400.6	375.3	365.7	360.9
25°	4411.2	3433.2	1598.7	587.0	494.4	433.1	381.3	346.4	323.6	314.0	312.8
27.5°	4665.0	3499.4	1255.9	518.5	442.7	380.1	333.2	301.9	282.7	275.5	274.3
30°	4893.6	3505.4	928.7	467.9	397.0	334.4	291.1	263.4	246.6	239.4	237.0
32.5°	5124.5	3454.8	676.1	422.2	354.9	294.7	252.6	231.0	218.9	212.9	212.9
35°	5342.3	3338.2	526.9	382.5	314.0	256.2	222.5	206.9	199.7	193.7	193.7
37.5°	5555.2	3171.0	447.5	347.7	275.5	223.7	196.1	186.5	180.4	174.4	174.4
40°	5771.7	2960.4	406.6	315.2	244.2	198.5	174.4	166.0	160.0	155.2	154.0
42.5°	6037.6	2717.4	380.1	285.1	216.5	175.6	154.0	144.4	139.5	134.7	132.3
45°	6345.5	2508.1	358.5	255.0	193.7	156.4	133.5	123.9	116.7	110.7	109.5
47.5°	6789.4	2356.6	329.6	222.5	172.0	135.9	115.5	104.7	93.8	87.8	86.6
50°	7356.0	2231.5	292.3	193.7	150.4	115.5	96.2	83.0	73.4	67.4	67.4
52.5°	7637.5	2067.9	258.6	168.4	126.3	97.4	78.2	62.6	57.7	51.7	51.7
55°	7750.6	1942.8	225.0	143.2	104.7	80.6	61.4	48.1	44.5	40.9	39.7
57.5°	8068.1	1906.7	196.1	121.5	86.6	63.8	46.9	36.1	33.7	28.9	28.9
60°	8579.4	1924.7	169.6	103.5	69.8	49.3	34.9	27.7	25.3	20.5	20.5
62.5°	9131.5	1901.9	143.2	89.0	54.1	36.1	24.1	20.5	20.5	12.0	10.8
65°	9237.4	1693.7	122.7	73.4	42.1	26.5	15.6	13.2	18.0	2.4	0.0
67.5°	8573.4	1313.6	105.9	56.5	31.3	20.5	12.0	6.0	15.6	0.0	0.0
70°	6855.6	834.8	85.4	40.9	24.1	16.8	9.6	2.4	12.0	0.0	0.0
72.5°	4847.9	484.8	67.4	28.9	20.5	13.2	7.2	0.0	7.2	0.0	0.0
75°	2451.6	258.6	42.1	21.7	15.6	9.6	4.8	0.0	1.2	0.0	0.0
77.5°	530.5	120.3	26.5	15.6	10.8	6.0	2.4	0.0	0.0	0.0	0.0
80°	115.5	52.9	16.8	9.6	6.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	42.1	27.7	8.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	14.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	1.2	1.2	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)