

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: P324756

Luminaire Tested: **GAN-SA2B-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2B-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8716 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

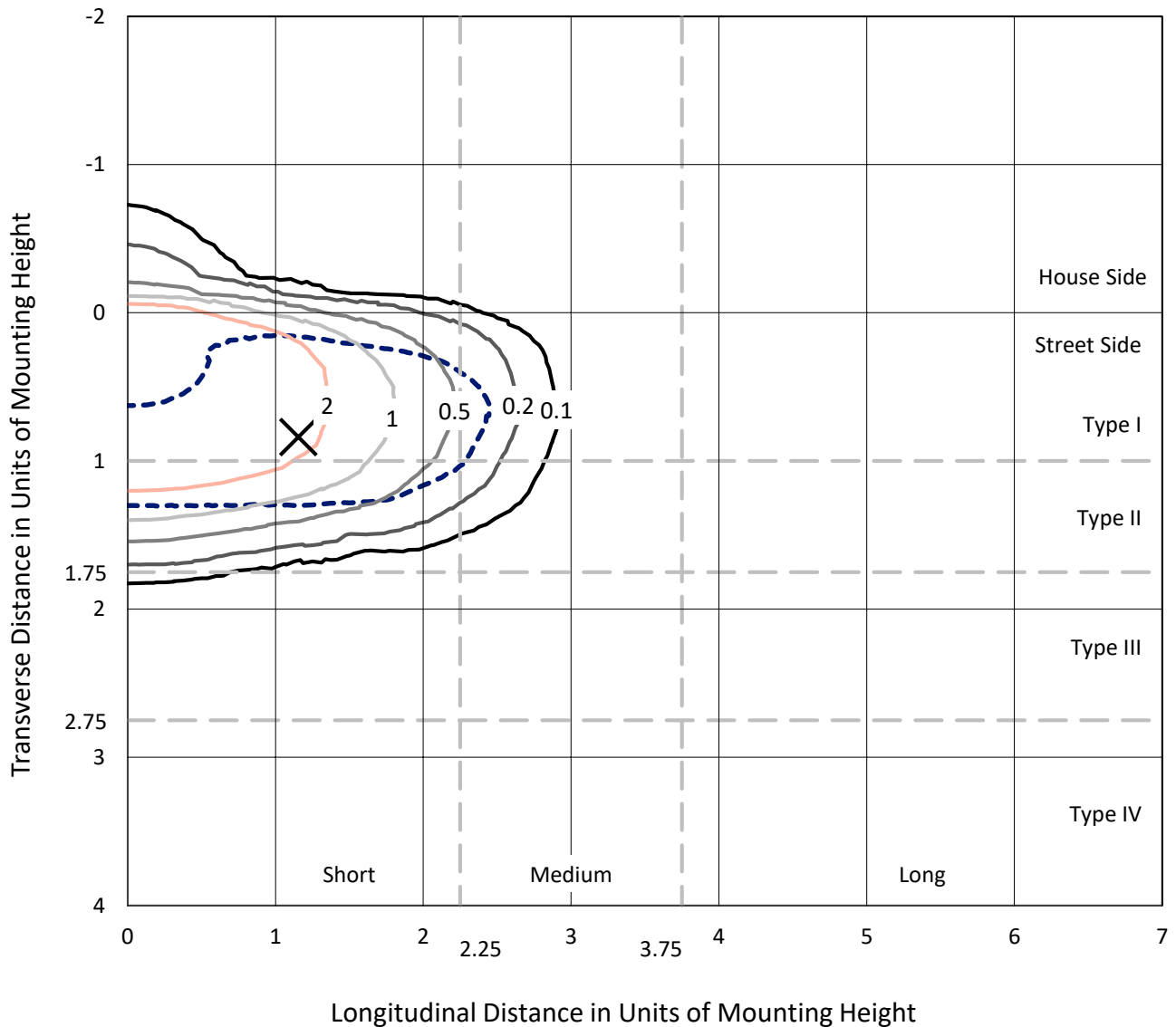
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

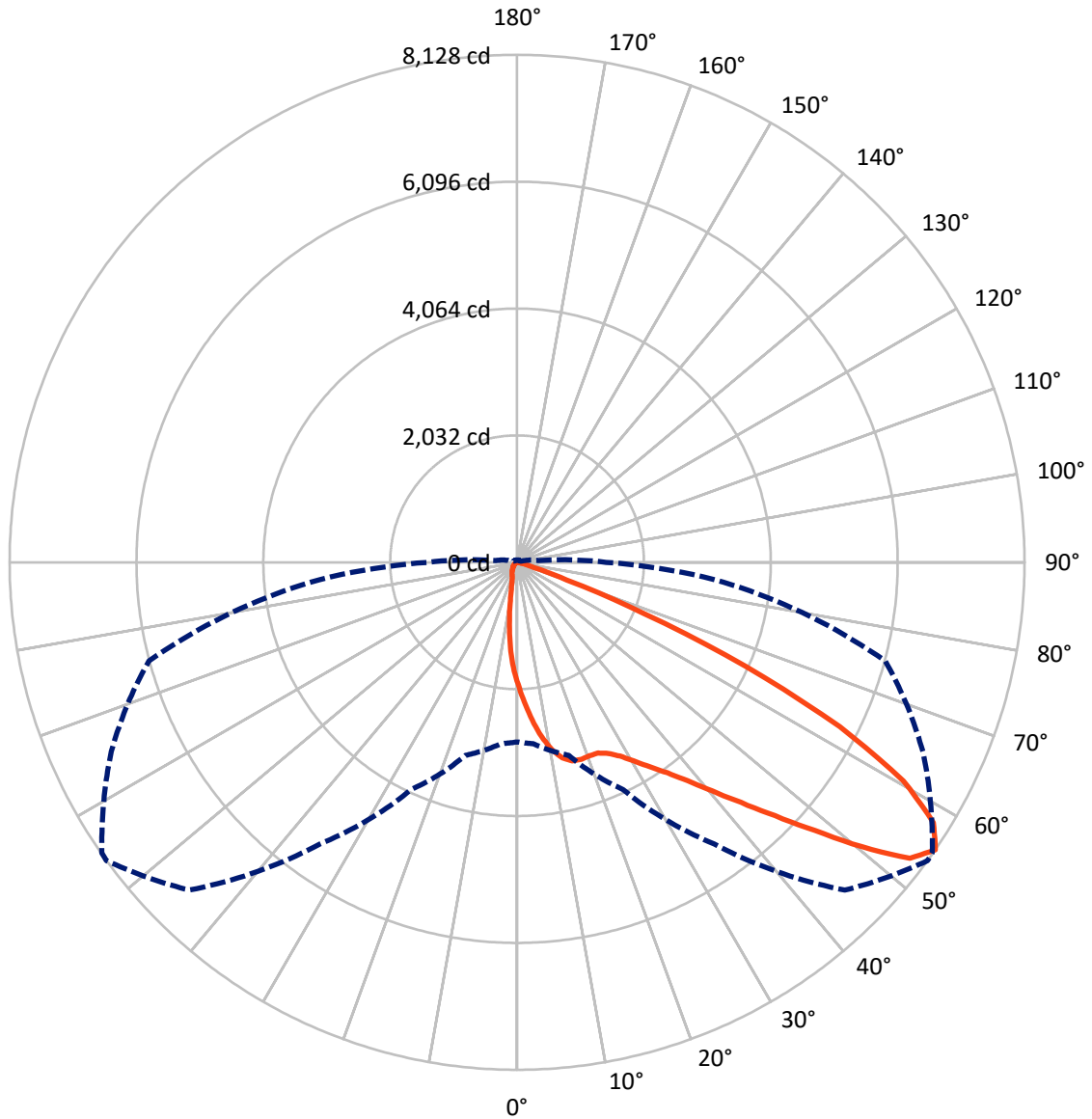
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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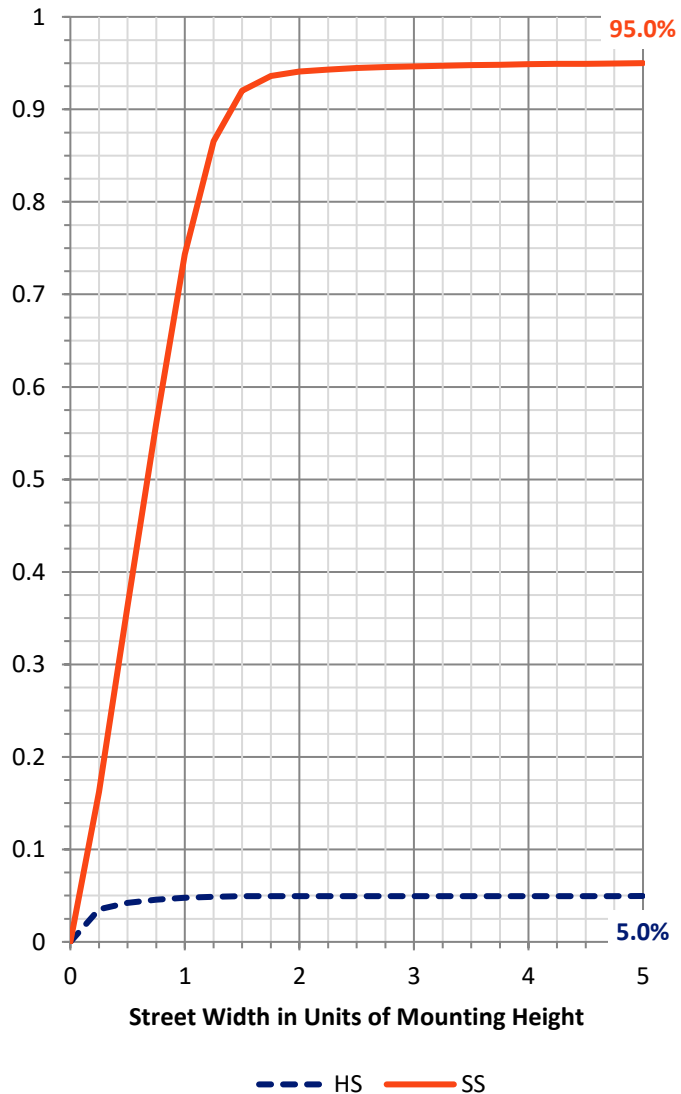
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	434.9	0.0	434.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	8281.1	0.0	8281.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	8716.0	0.0	8716.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.8	2.1
10°-20°	493.0	5.7
20°-30°	841.7	9.7
30°-40°	1350.8	15.5
40°-50°	2158.6	24.8
50°-60°	2313.0	26.5
60°-70°	1187.6	13.6
70°-80°	179.9	2.1
80°-90°	11.7	0.1
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°	8716.0	100.0
0°-180°	8716.0	100.0

**Coefficient of Utilization**



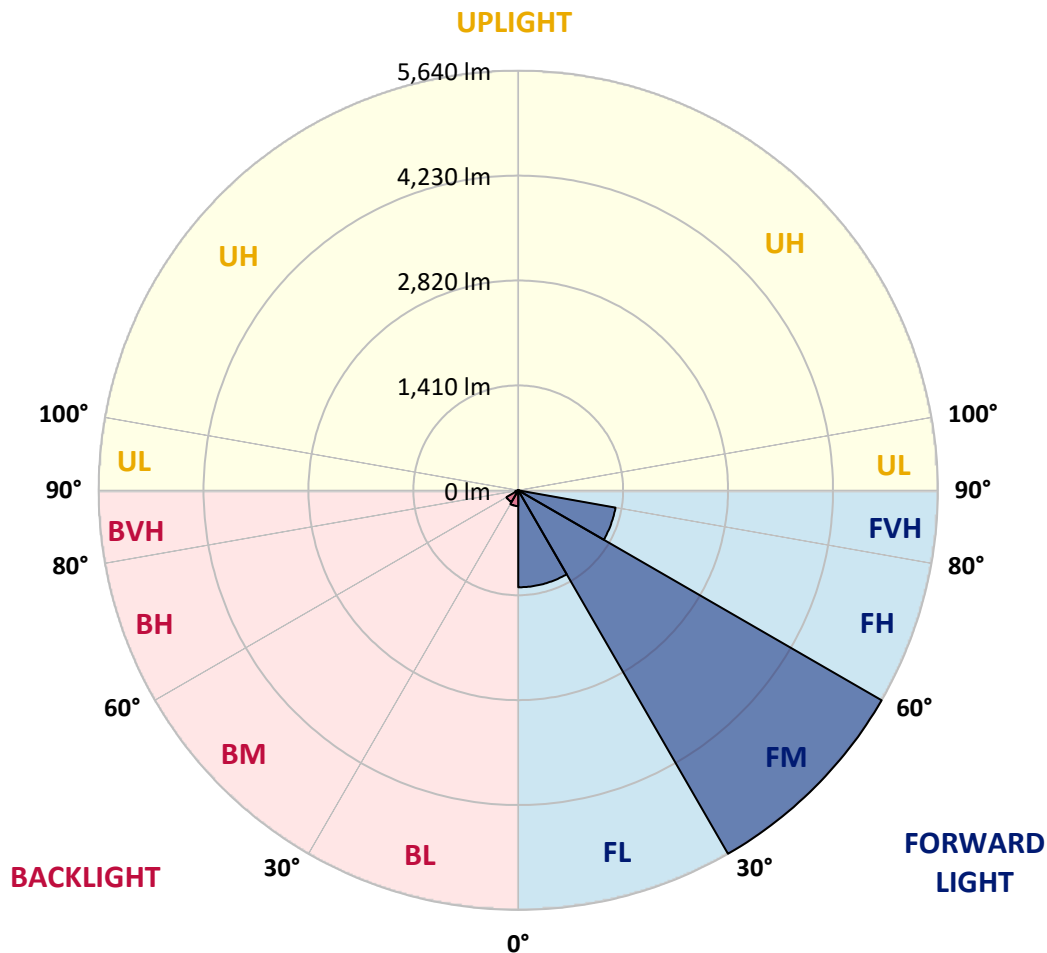
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.9	14.9			
FM (30°-60°)	5639.6	64.7			
FH (60°-80°)	1327.4	15.2			G1/1800
FVH (80°-90°)	11.2	0.1			G1/100
BL (0°-30°)	211.6	2.4	B1/500		
BM (30°-60°)	182.7	2.1	B0/220		
BH (60°-80°)	40.1	0.5	B0/110		G0/110
BVH (80°-90°)	0.5	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	2449.6	2413.1	2414.3	2397.7	2337.1	2289.7	2240.4	2228.7	2151.9	2071.4	1993.8
5°	2873.1	2846.4	2840.0	2808.0	2723.7	2634.5	2538.8	2516.6	2366.5	2201.6	2039.4
7.5°	3090.7	3091.0	3085.8	3074.1	3021.4	2934.8	2818.1	2794.8	2590.4	2343.1	2086.8
10°	3027.4	3041.7	3071.1	3109.9	3150.1	3139.2	3051.5	3030.4	2808.4	2492.9	2139.5
12.5°	2879.9	2881.8	2914.5	2978.1	3094.0	3213.0	3214.5	3207.3	3016.5	2649.5	2197.4
15°	2806.5	2813.6	2825.7	2866.7	2976.6	3167.1	3303.3	3313.5	3207.3	2815.9	2259.2
17.5°	2854.7	2864.8	2854.7	2859.5	2923.2	3094.4	3318.8	3344.7	3374.1	2980.4	2317.5
20°	2985.3	2994.7	2976.6	2956.7	2969.1	3073.3	3307.8	3342.8	3504.7	3126.4	2366.5
22.5°	3161.4	3165.2	3137.7	3105.0	3095.9	3144.9	3316.9	3353.0	3609.3	3258.5	2397.3
25°	3355.3	3358.7	3324.4	3286.8	3265.3	3285.3	3391.0	3418.1	3701.6	3384.6	2415.0
27.5°	3566.4	3569.4	3526.5	3480.2	3455.4	3456.1	3513.4	3542.3	3799.8	3528.4	2429.3
30°	3789.6	3788.1	3748.6	3684.2	3652.6	3651.9	3689.5	3718.9	3942.1	3712.9	2448.9
32.5°	4040.3	4037.3	3981.2	3901.4	3865.7	3870.9	3904.4	3921.4	4118.6	3909.3	2483.9
35°	4370.4	4361.8	4277.1	4178.1	4112.2	4110.3	4138.6	4152.1	4343.7	4147.2	2542.2
37.5°	4798.8	4790.9	4676.1	4532.3	4439.7	4405.1	4438.6	4455.9	4664.8	4452.5	2636.0
40°	5221.1	5213.2	5145.1	5013.3	4870.7	4787.5	4813.8	4832.3	5065.7	4822.9	2754.2
42.5°	5512.4	5519.2	5542.9	5553.8	5420.2	5245.6	5257.6	5276.8	5486.8	5218.8	2889.3
45°	5589.2	5603.9	5737.9	6001.0	6051.1	5914.8	5788.7	5799.3	5914.8	5614.8	3024.4
47.5°	5358.5	5385.6	5644.2	6133.5	6557.3	6653.7	6415.1	6401.1	6325.5	5935.1	3120.4
50°	4834.2	4859.0	5194.0	5917.8	6710.9	7359.1	7165.6	7124.6	6685.7	6126.7	3154.3
52.5°	4075.3	4105.4	4377.6	5238.8	6421.5	7673.8	7876.3	7842.0	6949.9	6141.8	3159.9
55°	2878.0	2914.5	3202.5	4015.1	5504.2	7423.5	8128.1	8117.9	7169.4	6101.9	3172.0
57.5°	1617.4	1643.8	1954.3	2573.9	4031.3	6465.9	7865.0	7932.4	7301.9	6032.6	3190.0
60°	718.2	725.3	886.1	1281.3	2360.1	4941.4	7111.8	7225.5	7188.2	5940.0	3220.5
62.5°	398.2	392.2	392.2	532.6	1025.7	3059.0	5799.3	5987.1	6703.0	5830.5	3222.0
65°	312.0	306.4	290.2	292.5	390.7	1357.7	4015.9	4349.7	5781.6	5509.4	3113.6
67.5°	264.6	259.7	243.5	237.1	242.8	447.9	2206.5	2553.2	4387.0	4674.9	2696.9
70°	223.6	220.2	211.9	204.0	189.7	221.3	844.3	1079.9	2703.3	3109.9	1841.0
72.5°	179.9	178.4	181.4	174.7	157.3	147.6	288.7	349.7	1214.3	1387.8	758.5
75°	155.1	154.3	155.8	149.1	129.5	102.8	146.8	160.3	342.5	339.5	153.6
77.5°	100.9	102.0	129.1	126.1	111.4	68.5	76.0	82.1	103.9	77.9	46.7
80°	64.4	63.6	65.5	104.6	100.1	52.3	38.0	39.9	50.1	38.4	22.6
82.5°	39.1	38.4	42.9	48.9	50.4	36.5	23.3	23.7	31.2	24.8	12.0
85°	3.4	4.5	26.0	24.1	17.3	11.3	11.3	12.0	16.6	14.7	6.8
87.5°	0.0	0.0	4.5	6.8	3.8	4.1	4.1	4.5	6.4	6.4	3.4
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°	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0	1952.0
2.5°	1953.5	1914.4	1835.3	1759.3	1694.9	1632.8	1562.1	1492.1	1459.3	1446.1	1432.6
5°	1956.9	1876.4	1713.4	1549.3	1379.1	1225.9	1095.3	961.3	894.3	865.0	851.4
7.5°	1961.4	1838.7	1575.3	1299.7	1025.7	817.9	636.5	519.8	469.4	461.5	441.9
10°	1962.2	1793.2	1414.9	1024.2	687.7	493.1	379.4	319.2	297.0	293.2	286.8
12.5°	1963.7	1739.4	1236.9	758.5	458.5	329.7	274.4	254.4	248.4	248.1	248.1
15°	1968.2	1682.9	1052.1	546.5	329.4	261.2	240.9	233.0	230.7	231.9	231.5
17.5°	1968.2	1616.3	870.6	407.3	266.1	234.9	223.6	218.3	217.6	218.7	219.1
20°	1953.9	1535.4	704.3	316.9	236.0	217.9	207.8	202.9	201.0	201.8	202.1
22.5°	1919.7	1436.0	568.7	262.4	216.1	202.5	191.6	184.1	181.1	181.4	181.4
25°	1866.2	1318.2	444.9	227.0	199.9	185.9	173.1	164.5	162.6	162.2	163.0
27.5°	1797.7	1187.9	354.2	199.9	180.7	167.5	154.7	147.6	146.0	146.4	146.8
30°	1730.3	1052.8	279.3	176.9	159.2	146.8	137.0	133.6	133.6	134.8	135.1
32.5°	1668.6	922.9	220.9	157.0	140.0	128.7	123.1	122.7	124.6	125.3	125.7
35°	1615.5	802.9	182.9	141.5	125.0	115.2	113.3	114.8	117.1	118.6	118.9
37.5°	1577.9	695.6	160.0	128.7	113.3	105.4	105.0	108.0	111.0	114.4	115.2
40°	1562.1	604.9	144.2	117.4	103.9	97.9	96.7	100.9	106.5	111.4	112.2
42.5°	1548.9	530.7	130.6	106.5	96.4	87.7	87.3	92.6	99.4	104.3	105.4
45°	1537.6	471.3	118.2	94.9	86.6	75.3	76.4	83.2	88.5	93.7	94.9
47.5°	1514.3	422.3	104.6	82.4	71.5	64.4	66.6	72.6	76.8	84.7	85.8
50°	1472.5	382.4	90.7	67.4	58.3	55.7	59.1	63.2	68.5	75.3	76.0
52.5°	1444.3	352.3	78.7	56.5	48.2	48.9	52.3	53.8	56.8	59.5	58.7
55°	1428.1	335.8	68.9	48.9	41.0	43.3	44.0	42.2	40.7	38.0	36.9
57.5°	1426.2	320.7	61.4	42.5	36.1	37.3	34.6	28.2	23.0	19.9	19.2
60°	1423.2	302.3	55.3	35.8	32.0	30.5	24.8	15.4	10.9	10.2	10.2
62.5°	1390.4	273.6	50.8	30.1	27.1	23.0	14.3	7.2	6.0	6.4	6.4
65°	1286.2	233.7	46.3	24.5	21.5	16.6	7.2	4.1	2.3	2.6	2.6
67.5°	1093.5	186.3	41.4	18.8	16.2	10.5	4.1	1.9	0.0	0.0	0.0
70°	732.1	115.6	35.0	13.2	10.5	6.4	3.0	0.4	0.0	0.0	0.0
72.5°	280.8	62.5	28.2	7.9	6.8	4.5	1.9	0.0	0.0	0.0	0.0
75°	63.2	41.0	19.6	5.6	4.9	3.0	0.8	0.0	0.0	0.0	0.0
77.5°	24.1	29.7	11.3	3.8	3.4	1.9	0.0	0.0	0.0	0.0	0.0
80°	11.7	17.7	5.3	2.3	1.9	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	6.8	2.3	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	3.4	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.1	0.4	0.4	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)