

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: P320916

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10924 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

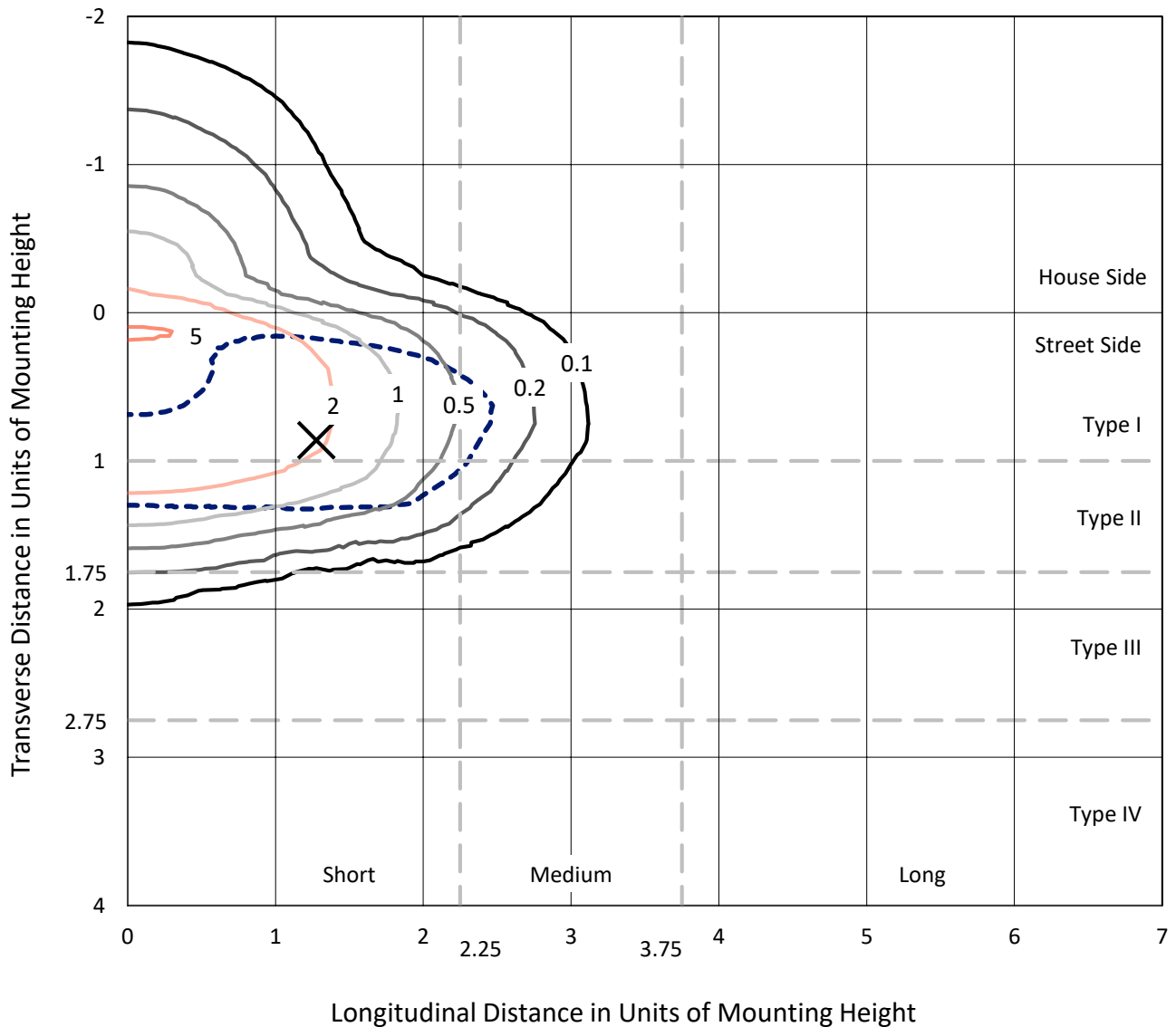
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

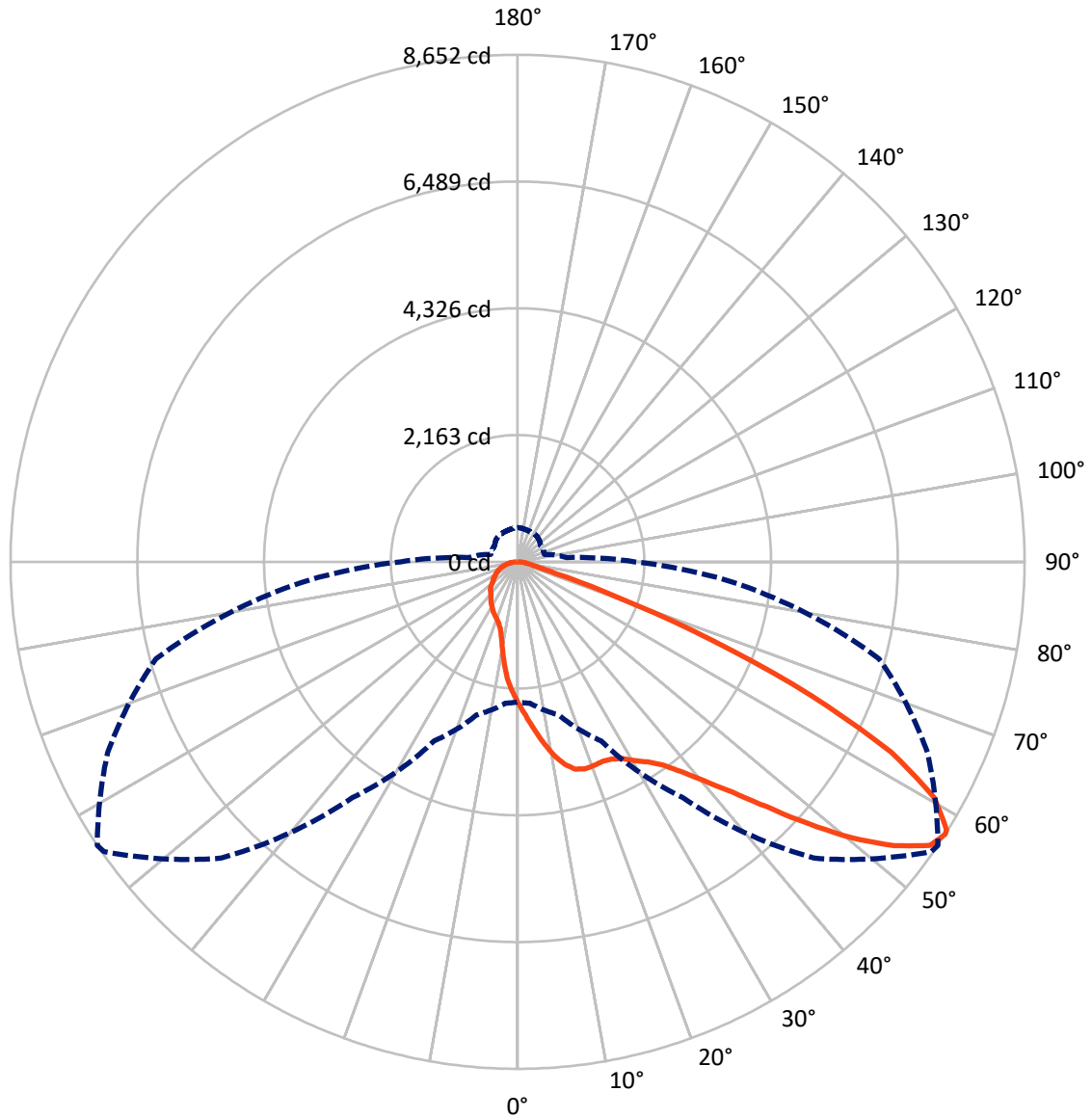
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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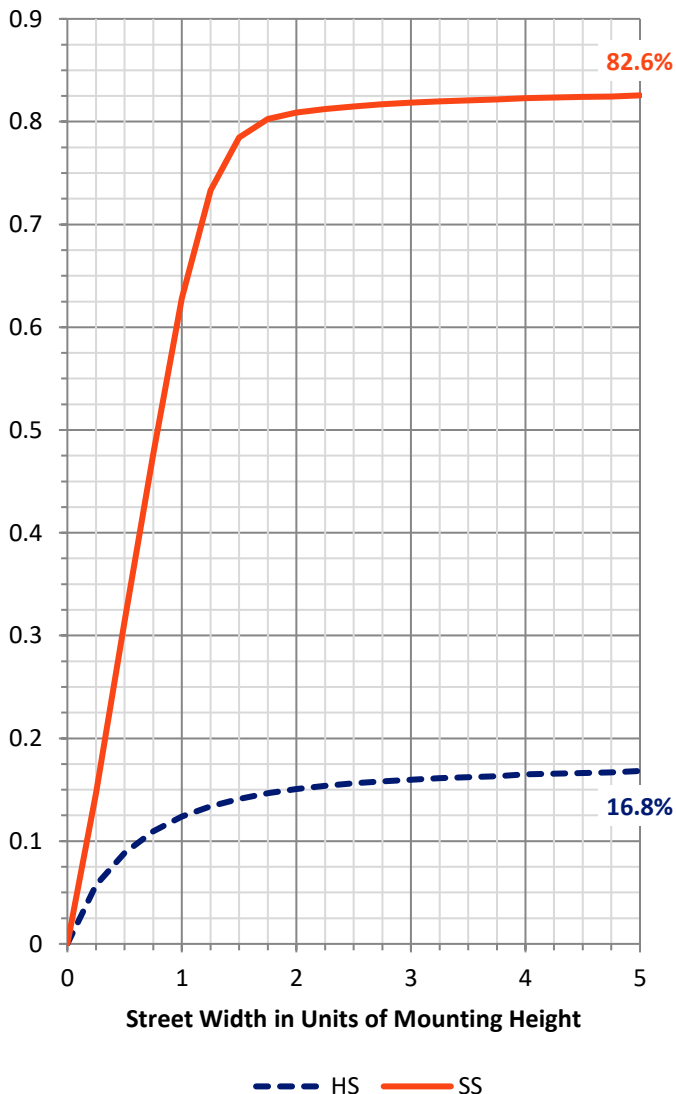
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1883.1	0.0	1883.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9040.9	0.0	9040.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	10924.0	0.0	10924.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.5	2.1
10°-20°	654.4	6.0
20°-30°	1065.8	9.8
30°-40°	1593.3	14.6
40°-50°	2416.7	22.1
50°-60°	2708.7	24.8
60°-70°	1599.9	14.6
70°-80°	524.2	4.8
80°-90°	129.5	1.2
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°	10924.0	100.0
0°-180°	10924.0	100.0

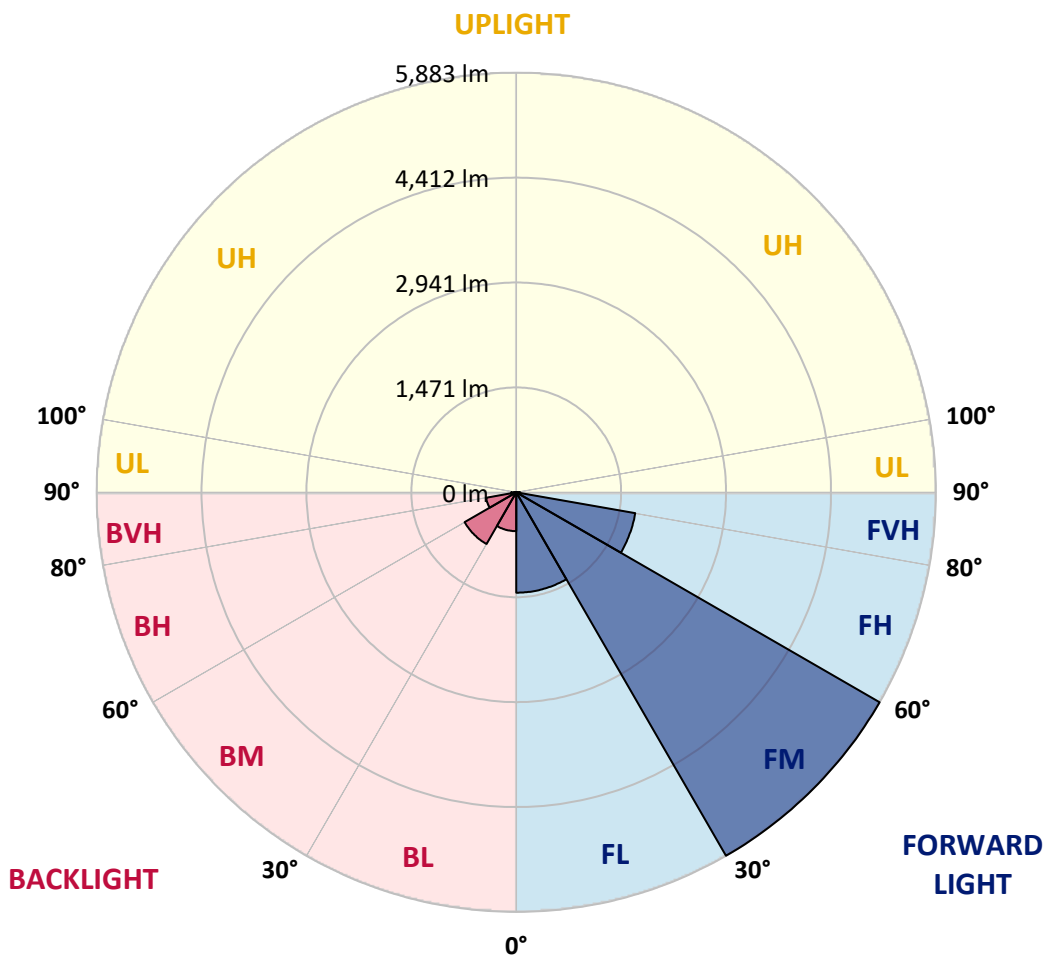


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.2	12.9			
FM (30°-60°)	5882.9	53.9			
FH (60°-80°)	1693.8	15.5			G1/1800
FVH (80°-90°)	57.0	0.5			G1/100
BL (0°-30°)	544.5	5.0	B2/1000		
BM (30°-60°)	835.8	7.7	B1/1000		
BH (60°-80°)	430.3	3.9	B1/500		G1/500
BVH (80°-90°)	72.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2782.2	2807.8	2796.5	2757.5	2727.4	2685.0	2637.7	2623.4	2573.5	2517.6	2450.4
5°	3222.6	3209.8	3191.4	3130.6	3066.4	2991.7	2873.1	2854.3	2743.2	2616.7	2483.0
7.5°	3473.4	3472.2	3461.4	3425.7	3367.1	3269.5	3126.5	3104.3	2936.5	2733.0	2525.8
10°	3437.0	3434.3	3452.4	3489.5	3507.2	3486.9	3366.4	3344.2	3138.1	2861.8	2575.4
12.5°	3230.1	3231.6	3260.5	3338.6	3444.8	3572.5	3553.0	3542.1	3347.2	3007.5	2635.4
15°	3069.0	3072.4	3095.3	3163.3	3288.7	3520.3	3666.3	3670.1	3549.6	3168.2	2705.6
17.5°	2998.5	3005.6	3016.1	3063.8	3178.7	3416.3	3693.4	3713.6	3726.8	3334.8	2773.2
20°	3021.0	3027.8	3030.8	3061.2	3155.4	3353.2	3674.6	3711.0	3862.7	3491.8	2840.8
22.5°	3122.0	3126.1	3128.0	3135.9	3209.1	3371.3	3662.2	3700.5	3961.0	3632.6	2891.9
25°	3289.4	3286.4	3274.4	3264.3	3313.4	3442.6	3690.7	3727.2	4041.0	3760.2	2925.3
27.5°	3489.9	3486.1	3462.9	3435.1	3463.2	3553.7	3773.0	3801.9	4112.7	3879.6	2942.2
30°	3730.5	3720.8	3676.9	3643.8	3654.7	3720.4	3908.5	3934.8	4223.5	4015.1	2958.7
32.5°	4008.7	3998.2	3934.8	3880.0	3880.0	3934.8	4048.1	4069.9	4317.3	4168.3	2985.3
35°	4357.1	4344.0	4261.4	4169.4	4143.5	4171.3	4238.5	4253.9	4486.3	4361.2	3033.8
37.5°	4767.8	4750.2	4643.2	4520.0	4463.4	4461.9	4510.3	4541.8	4756.2	4614.6	3116.0
40°	5179.7	5167.3	5073.8	4976.9	4865.8	4830.1	4904.8	4914.6	5109.1	4929.2	3221.1
42.5°	5498.0	5495.8	5478.5	5491.3	5377.5	5305.4	5364.0	5371.9	5540.1	5269.8	3333.0
45°	5666.2	5670.0	5753.7	5939.1	5981.2	5928.6	5957.5	5959.8	6032.6	5613.3	3435.5
47.5°	5531.4	5550.9	5762.7	6177.5	6521.8	6696.3	6648.3	6676.1	6510.1	5908.3	3515.8
50°	5006.2	5030.2	5390.6	6071.3	6774.1	7439.3	7414.1	7407.8	6895.3	6124.6	3559.3
52.5°	4355.6	4374.4	4671.7	5519.0	6589.0	7850.0	8080.9	8047.9	7237.7	6286.4	3567.6
55°	3364.9	3394.2	3679.1	4416.8	5840.4	7693.1	8571.2	8541.5	7549.7	6371.2	3557.8
57°	2392.2	2423.0	2706.0	3370.9	4913.1	7149.9	8620.0	8651.5	7718.2	6385.5	3568.7
57.5°	2134.6	2166.2	2446.6	3092.3	4624.0	6953.5	8577.9	8630.5	7748.6	6383.2	3574.7
60°	1074.8	1086.8	1265.5	1726.2	2923.0	5621.5	8029.5	8165.0	7776.1	6272.9	3600.6
62.5°	668.2	659.6	654.0	795.1	1422.1	3727.9	6897.6	7158.5	7251.6	6005.6	3537.9
65°	587.5	571.4	509.4	498.2	628.1	1810.6	5194.3	5519.0	6131.0	5584.4	3388.5
67.5°	551.9	536.1	466.3	424.2	424.6	717.8	3224.8	3590.5	4776.1	4872.2	3036.0
70°	515.1	500.8	435.5	385.9	361.5	397.6	1483.7	1761.1	3113.3	3829.6	2537.5
72.5°	467.8	458.0	396.1	345.0	319.1	297.7	568.0	670.9	1802.4	2572.0	1762.2
75°	418.2	409.2	356.3	307.5	275.9	234.3	319.9	344.6	915.6	1315.8	867.6
77.5°	363.8	358.5	316.9	271.8	246.7	194.1	226.4	238.4	392.7	564.3	435.1
80°	289.4	299.6	277.1	242.1	218.9	155.4	160.3	168.2	228.6	275.6	247.0
82.5°	188.5	206.1	217.0	196.7	180.2	122.4	115.3	118.6	149.0	168.2	107.4
85°	78.5	88.2	142.7	128.8	119.8	89.3	77.3	78.8	92.4	95.7	43.9
87.5°	34.9	37.2	62.7	58.9	50.7	30.8	33.0	36.0	49.2	46.6	16.9
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°	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0	2423.0
2.5°	2425.2	2393.7	2339.6	2279.9	2231.1	2192.1	2152.7	2125.6	2094.1	2077.2	2068.6
5°	2427.1	2365.1	2251.4	2134.6	2030.3	1934.9	1844.1	1774.2	1708.9	1673.6	1663.9
7.5°	2435.0	2341.9	2157.9	1965.7	1780.2	1610.9	1480.3	1398.4	1339.5	1313.2	1305.7
10°	2441.3	2314.5	2042.3	1757.7	1505.4	1333.9	1232.5	1186.7	1166.4	1163.0	1159.7
12.5°	2456.4	2286.3	1920.6	1540.7	1291.8	1173.2	1137.9	1134.9	1140.5	1148.8	1148.8
15°	2480.0	2258.5	1781.7	1354.5	1155.9	1114.2	1121.4	1137.9	1153.3	1166.1	1167.9
17.5°	2497.3	2224.4	1632.3	1205.5	1083.5	1094.7	1120.2	1143.5	1159.3	1171.7	1172.8
20°	2509.7	2171.4	1472.8	1091.7	1041.8	1076.7	1108.6	1129.3	1140.1	1152.5	1154.4
22.5°	2503.3	2100.5	1331.2	1010.3	1008.0	1050.4	1080.8	1105.6	1097.3	1085.3	1093.2
25°	2472.5	2002.9	1185.6	949.4	972.3	1015.1	1052.7	1036.2	1008.4	1003.1	1006.1
27.5°	2417.7	1878.2	1050.8	893.1	931.0	982.5	980.2	963.7	953.9	947.2	951.3
30°	2358.8	1743.1	932.9	843.9	885.2	927.7	919.0	918.6	908.9	898.0	903.3
32.5°	2300.6	1607.2	839.4	803.4	850.7	856.3	875.1	880.7	861.6	838.7	837.2
35°	2249.9	1478.8	768.5	766.6	809.0	809.8	837.2	829.3	781.6	758.0	758.0
37.5°	2212.0	1350.8	714.4	733.6	754.2	773.7	787.6	755.0	747.1	733.9	733.6
40°	2195.4	1238.1	680.6	708.4	715.5	740.3	704.7	717.4	721.2	714.4	714.4
42.5°	2178.2	1140.1	651.4	689.3	688.1	684.8	666.7	683.3	698.3	698.7	697.5
45°	2160.9	1055.7	625.4	648.3	664.1	627.7	631.1	648.7	669.7	677.3	677.3
47.5°	2141.8	988.9	601.8	605.2	629.6	605.2	602.5	616.1	640.8	652.9	655.5
50°	2099.7	928.8	574.8	567.3	574.0	582.3	584.5	590.9	618.3	637.5	642.0
52.5°	2041.5	875.1	540.2	532.3	532.3	563.5	574.0	575.9	599.2	622.1	626.6
55°	1993.1	840.9	504.6	503.1	501.6	543.6	561.6	564.6	580.8	598.8	601.0
57°	1996.5	838.3	477.2	478.7	478.3	523.3	550.0	556.4	564.6	580.0	582.7
57.5°	1998.4	840.2	471.2	471.9	471.5	517.7	546.6	553.7	560.1	576.3	578.9
60°	2026.5	845.1	446.7	438.5	440.4	487.7	527.5	536.5	540.6	562.0	565.4
62.5°	1984.8	823.3	427.2	407.3	407.3	456.1	500.8	515.1	521.5	550.4	556.0
65°	1864.0	762.1	404.3	372.0	375.8	424.6	468.9	492.2	501.9	538.0	544.0
67.5°	1677.4	691.1	379.9	340.5	344.3	391.6	435.9	461.0	476.4	524.5	529.3
70°	1434.5	604.4	346.9	307.1	311.6	355.5	396.8	425.3	448.3	511.7	513.2
72.5°	1057.6	495.6	300.7	270.3	275.2	313.5	357.4	390.4	421.2	479.8	479.0
75°	628.8	387.4	249.7	233.1	236.5	272.2	321.7	361.9	408.1	467.4	474.5
77.5°	381.4	291.7	203.5	195.2	199.3	235.8	296.2	339.0	402.4	440.7	438.5
80°	230.5	208.4	162.6	157.3	161.4	201.6	274.1	321.7	351.8	376.5	376.5
82.5°	120.5	127.3	119.4	115.3	120.9	163.7	249.3	280.8	310.8	266.9	249.3
85°	49.2	66.4	72.5	72.1	75.5	113.4	215.1	240.3	200.5	190.3	194.8
87.5°	16.5	28.2	35.3	30.4	31.9	71.3	149.0	116.0	137.8	96.1	91.2
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)