

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: P320996

Luminaire Tested: **GAN-SA2B-750-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320996  
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-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11995 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

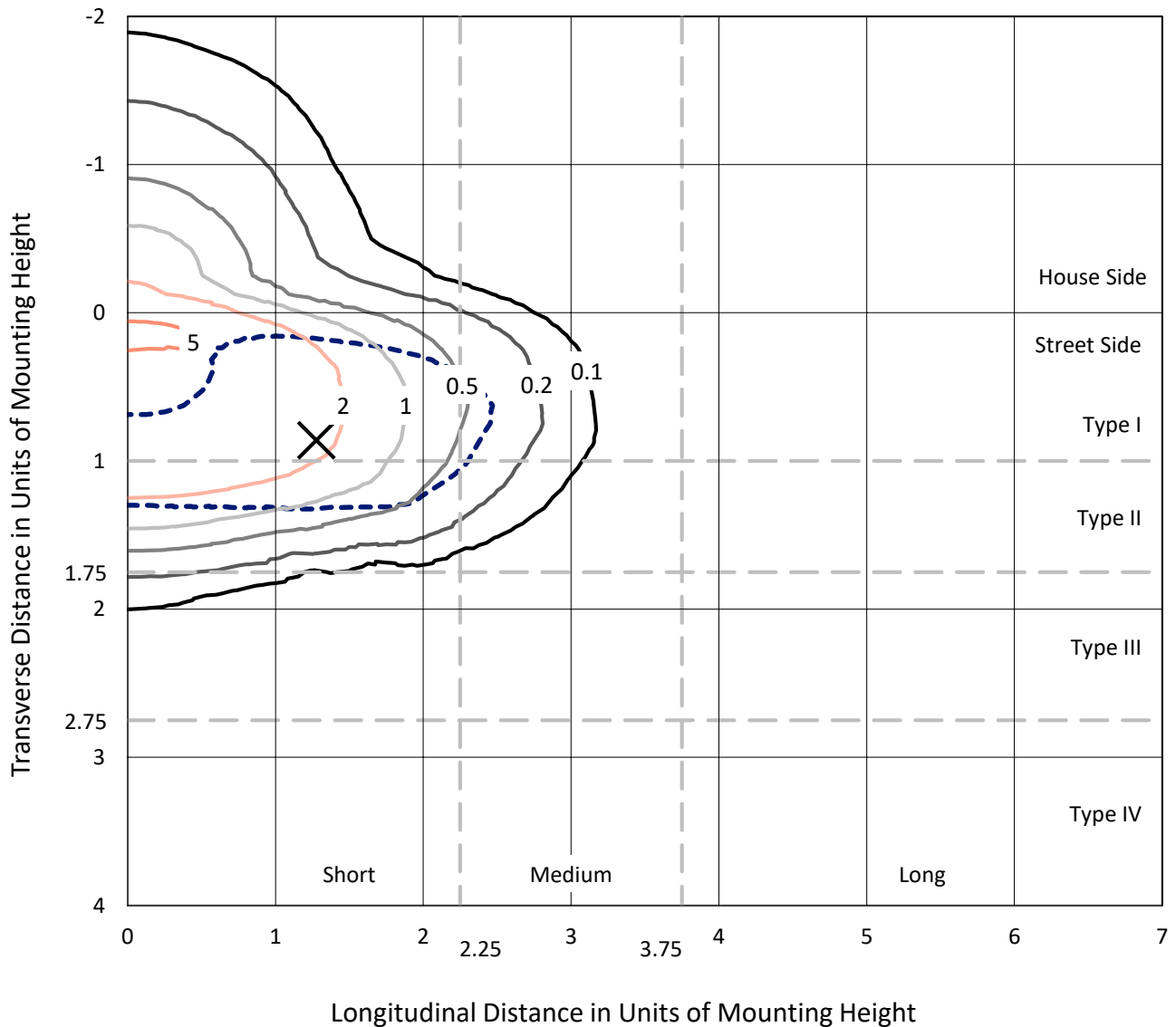
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

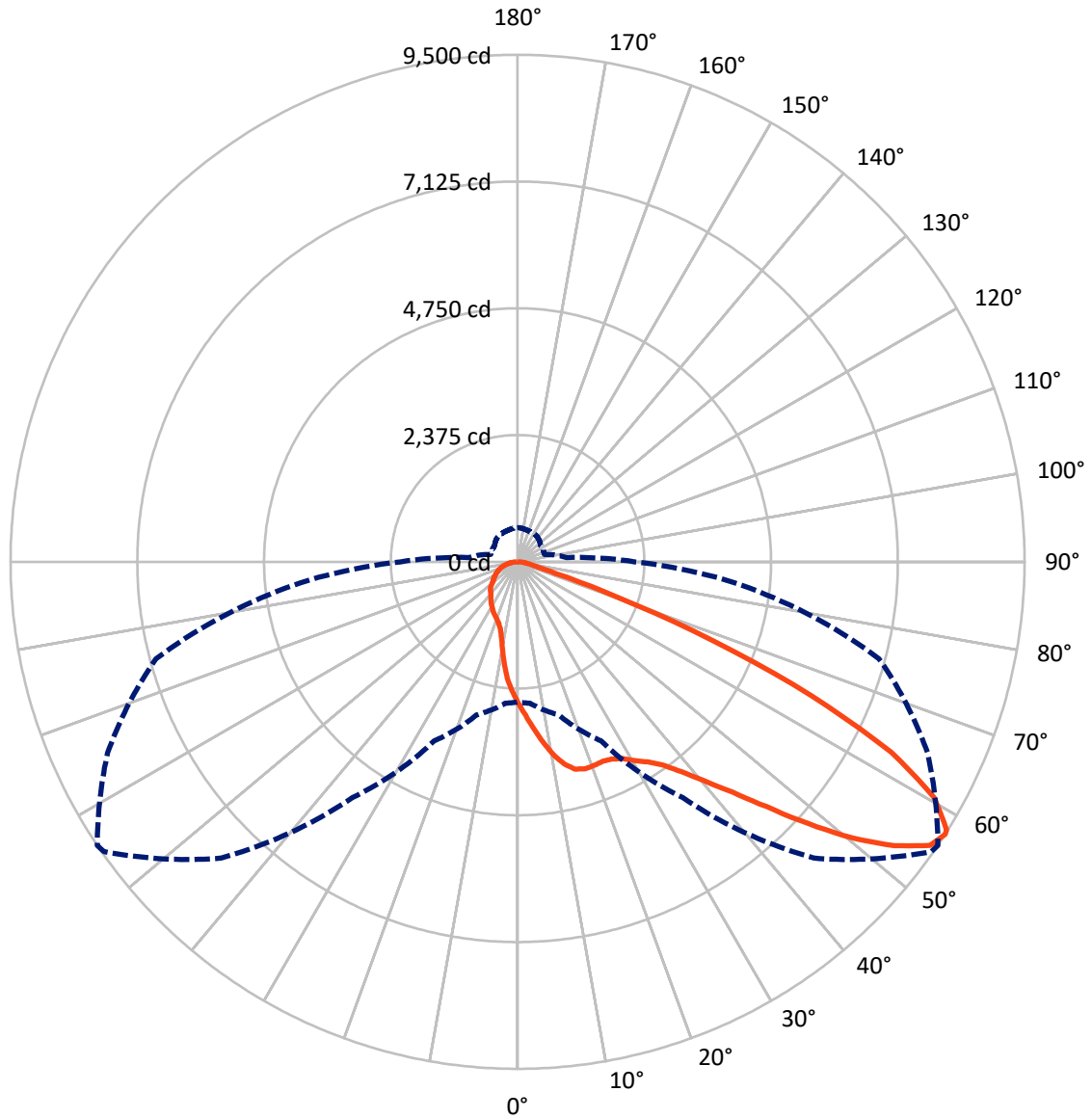
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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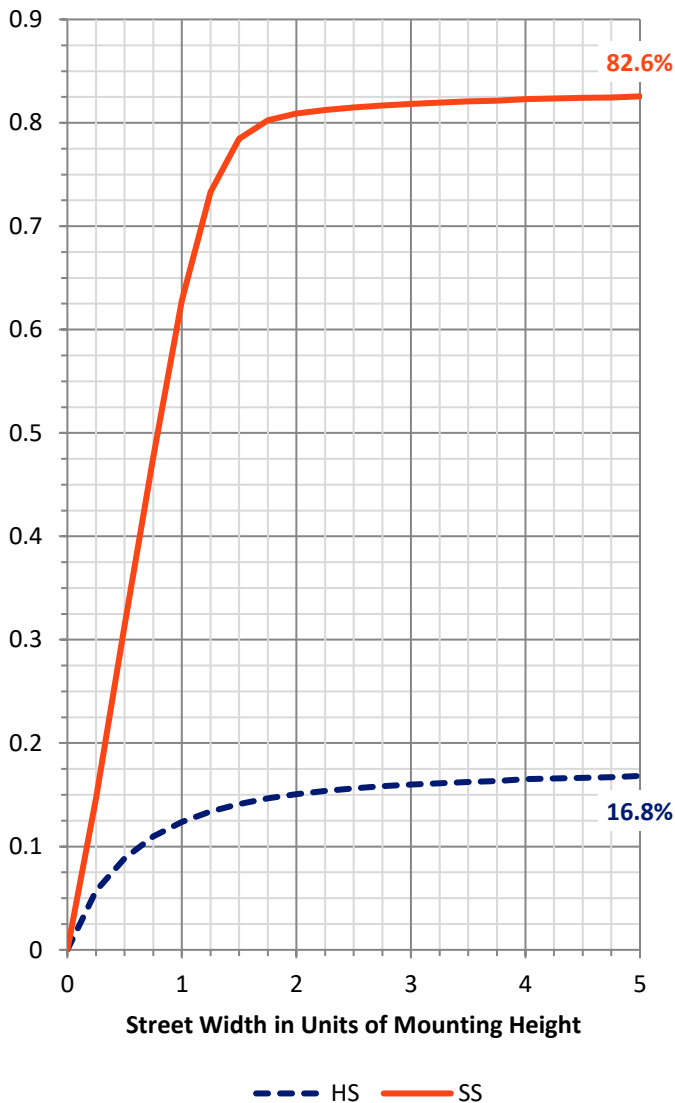
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2067.7	0.0	2067.7
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9927.3	0.0	9927.3
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	11995.0	0.0	11995.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.1	2.1
10°-20°	718.5	6.0
20°-30°	1170.3	9.8
30°-40°	1749.5	14.6
40°-50°	2653.7	22.1
50°-60°	2974.3	24.8
60°-70°	1756.7	14.6
70°-80°	575.6	4.8
80°-90°	142.2	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°	11995.0	100.0
0°-180°	11995.0	100.0

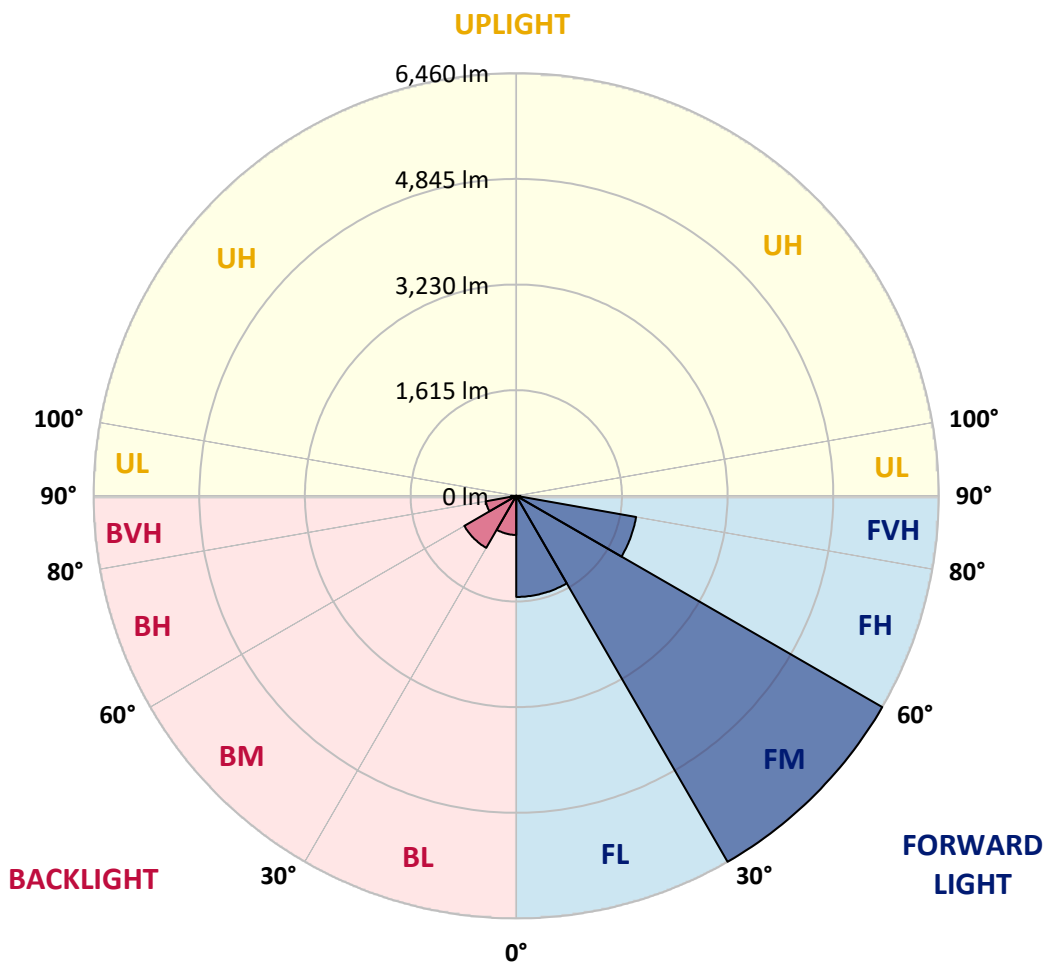


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.1	12.9			
FM (30°-60°)	6459.7	53.9			
FH (60°-80°)	1859.9	15.5			G2/5000
FVH (80°-90°)	62.6	0.5			G1/100
BL (0°-30°)	597.9	5.0	B2/1000		
BM (30°-60°)	917.8	7.7	B1/1000		
BH (60°-80°)	472.4	3.9	B1/500		G1/500
BVH (80°-90°)	79.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	3055.0	3083.0	3070.7	3027.8	2994.8	2948.2	2896.3	2880.6	2825.8	2764.4	2690.6
5°	3538.5	3524.5	3504.3	3437.5	3367.1	3285.0	3154.8	3134.1	3012.1	2873.2	2726.5
7.5°	3813.9	3812.7	3800.7	3761.6	3697.2	3590.1	3433.0	3408.7	3224.4	3001.0	2773.5
10°	3773.9	3771.0	3790.8	3831.6	3851.0	3828.7	3696.4	3672.1	3445.8	3142.4	2827.9
12.5°	3546.8	3548.4	3580.2	3665.9	3782.6	3922.7	3901.3	3889.3	3675.4	3302.3	2893.8
15°	3369.9	3373.7	3398.8	3473.4	3611.1	3865.4	4025.8	4029.9	3897.6	3478.8	2970.9
17.5°	3292.4	3300.3	3311.8	3364.2	3490.3	3751.2	4055.5	4077.7	4092.2	3661.8	3045.1
20°	3317.2	3324.6	3327.9	3361.3	3464.8	3682.0	4034.9	4074.8	4241.4	3834.1	3119.3
22.5°	3428.1	3432.6	3434.7	3443.3	3523.7	3701.8	4021.3	4063.3	4349.4	3988.7	3175.4
25°	3611.9	3608.6	3595.4	3584.3	3638.3	3780.1	4052.6	4092.6	4437.2	4128.8	3212.1
27.5°	3832.0	3827.9	3802.4	3771.9	3802.8	3902.1	4142.9	4174.6	4515.9	4259.9	3230.6
30°	4096.3	4085.6	4037.3	4001.1	4013.0	4085.2	4291.7	4320.5	4637.5	4408.7	3248.7
32.5°	4401.7	4390.2	4320.5	4260.3	4260.3	4320.5	4445.0	4468.9	4740.6	4576.9	3278.0
35°	4784.3	4769.9	4679.2	4578.2	4549.7	4580.2	4654.0	4670.9	4926.1	4788.8	3331.2
37.5°	5235.3	5215.9	5098.4	4963.2	4900.9	4899.3	4952.5	4987.1	5222.5	5067.1	3421.5
40°	5687.5	5673.9	5571.2	5464.9	5342.9	5303.7	5385.7	5396.4	5610.0	5412.5	3536.9
42.5°	6037.0	6034.6	6015.6	6029.6	5904.7	5825.6	5889.9	5898.5	6083.2	5786.4	3659.7
45°	6221.7	6225.8	6317.8	6521.4	6567.6	6509.9	6541.6	6544.1	6624.0	6163.6	3772.3
47.5°	6073.7	6095.2	6327.7	6783.2	7161.2	7352.9	7300.1	7330.6	7148.4	6487.6	3860.5
50°	5497.0	5523.4	5919.1	6666.5	7438.2	8168.7	8141.0	8134.0	7571.3	6725.0	3908.3
52.5°	4782.6	4803.2	5129.7	6060.1	7235.0	8619.6	8873.1	8836.9	7947.3	6902.7	3917.4
55°	3694.8	3726.9	4039.8	4849.8	6413.0	8447.3	9411.5	9378.9	8289.9	6995.9	3906.7
57°	2626.7	2660.5	2971.3	3701.4	5394.8	7850.8	9465.1	9499.7	8474.9	7011.5	3918.6
57.5°	2343.9	2378.5	2686.5	3395.5	5077.4	7635.2	9418.9	9476.6	8508.3	7009.1	3925.2
60°	1180.2	1193.4	1389.6	1895.4	3209.6	6172.7	8816.7	8965.5	8538.4	6887.9	3953.7
62.5°	733.8	724.3	718.1	873.1	1561.5	4093.4	7573.8	7860.3	7962.5	6594.4	3884.8
65°	645.1	627.4	559.4	547.0	689.7	1988.2	5703.5	6060.1	6732.1	6131.9	3720.7
67.5°	606.0	588.7	512.0	465.8	466.2	788.2	3541.0	3942.5	5244.3	5349.9	3333.7
70°	565.6	549.9	478.2	423.8	397.0	436.5	1629.1	1933.7	3418.6	4205.1	2786.2
72.5°	513.6	502.9	434.9	378.8	350.4	326.9	623.7	736.6	1979.1	2824.2	1935.0
75°	459.2	449.3	391.2	337.6	303.0	257.2	351.2	378.4	1005.4	1444.8	952.7
77.5°	399.4	393.7	347.9	298.5	270.8	213.1	248.6	261.8	431.2	619.6	477.8
80°	317.8	329.0	304.2	265.9	240.3	170.7	176.0	184.7	251.0	302.6	271.2
82.5°	206.9	226.3	238.3	216.0	197.9	134.4	126.6	130.3	163.7	184.7	117.9
85°	86.2	96.9	156.6	141.4	131.5	98.1	84.9	86.6	101.4	105.1	48.2
87.5°	38.3	40.8	68.8	64.7	55.7	33.8	36.3	39.6	54.0	51.1	18.6
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5	2660.5
2.5°	2663.0	2628.3	2569.0	2503.4	2449.9	2407.0	2363.7	2334.0	2299.4	2280.8	2271.4
5°	2665.0	2597.0	2472.1	2343.9	2229.3	2124.6	2024.9	1948.2	1876.4	1837.7	1827.0
7.5°	2673.7	2571.5	2369.5	2158.4	1954.8	1768.9	1625.4	1535.5	1470.8	1442.0	1433.7
10°	2680.7	2541.4	2242.5	1930.0	1653.0	1464.6	1353.3	1303.0	1280.8	1277.1	1273.4
12.5°	2697.2	2510.5	2108.9	1691.8	1418.5	1288.2	1249.5	1246.2	1252.3	1261.4	1261.4
15°	2723.2	2479.9	1956.4	1487.3	1269.2	1223.5	1231.3	1249.5	1266.4	1280.4	1282.4
17.5°	2742.1	2442.4	1792.4	1323.7	1189.7	1202.0	1230.1	1255.6	1273.0	1286.6	1287.8
20°	2755.7	2384.3	1617.2	1198.8	1143.9	1182.3	1217.3	1240.0	1251.9	1265.5	1267.6
22.5°	2748.7	2306.4	1461.8	1109.3	1106.8	1153.4	1186.8	1214.0	1204.9	1191.7	1200.4
25°	2714.9	2199.2	1301.8	1042.5	1067.7	1114.7	1155.9	1137.7	1107.2	1101.5	1104.8
27.5°	2654.7	2062.4	1153.8	980.7	1022.3	1078.8	1076.3	1058.2	1047.5	1040.0	1044.6
30°	2590.0	1914.0	1024.4	926.7	972.0	1018.6	1009.1	1008.7	998.0	986.0	991.8
32.5°	2526.1	1764.7	921.7	882.2	934.1	940.3	960.9	967.1	946.1	920.9	919.3
35°	2470.5	1623.8	843.8	841.8	888.3	889.2	919.3	910.6	858.3	832.3	832.3
37.5°	2428.8	1483.2	784.5	805.5	828.2	849.6	864.8	829.0	820.3	805.9	805.5
40°	2410.7	1359.5	747.4	777.9	785.7	812.9	773.7	787.8	791.9	784.5	784.5
42.5°	2391.7	1251.9	715.2	756.8	755.6	751.9	732.1	750.2	766.7	767.2	765.9
45°	2372.8	1159.2	686.8	711.9	729.2	689.2	693.0	712.3	735.4	743.7	743.7
47.5°	2351.7	1085.8	660.8	664.5	691.3	664.5	661.6	676.5	703.7	716.9	719.7
50°	2305.6	1019.8	631.1	622.9	630.3	639.4	641.8	648.8	678.9	700.0	704.9
52.5°	2241.7	960.9	593.2	584.5	584.5	618.8	630.3	632.4	657.9	683.1	688.0
55°	2188.5	923.4	554.0	552.4	550.7	596.9	616.7	620.0	637.7	657.5	660.0
57°	2192.2	920.5	523.9	525.6	525.2	574.6	603.9	610.9	620.0	636.9	639.8
57.5°	2194.3	922.6	517.3	518.2	517.8	568.5	600.2	608.0	615.0	632.8	635.7
60°	2225.2	927.9	490.5	481.5	483.5	535.5	579.2	589.1	593.6	617.1	620.8
62.5°	2179.4	904.0	469.1	447.3	447.3	500.9	549.9	565.6	572.6	604.3	610.5
65°	2046.7	836.8	444.0	408.5	412.6	466.2	514.9	540.4	551.1	590.7	597.3
67.5°	1841.8	758.9	417.2	373.9	378.0	430.0	478.6	506.2	523.1	575.9	581.2
70°	1575.1	663.7	380.9	337.2	342.1	390.4	435.7	467.1	492.2	561.9	563.5
72.5°	1161.2	544.1	330.2	296.8	302.2	344.2	392.4	428.7	462.5	526.8	526.0
75°	690.5	425.4	274.1	256.0	259.7	298.9	353.3	397.4	448.1	513.2	521.1
77.5°	418.8	320.3	223.4	214.4	218.9	258.9	325.2	372.2	441.9	484.0	481.5
80°	253.1	228.8	178.5	172.7	177.3	221.4	300.9	353.3	386.3	413.5	413.5
82.5°	132.3	139.7	131.1	126.6	132.7	179.7	273.7	308.3	341.3	293.1	273.7
85°	54.0	73.0	79.6	79.1	82.9	124.5	236.2	263.8	220.1	209.0	213.9
87.5°	18.1	30.9	38.7	33.4	35.0	78.3	163.7	127.4	151.3	105.5	100.2
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)