

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: P320997

Luminaire Tested: **GAN-SA3B-750-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320997
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-SA3B-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 17899 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

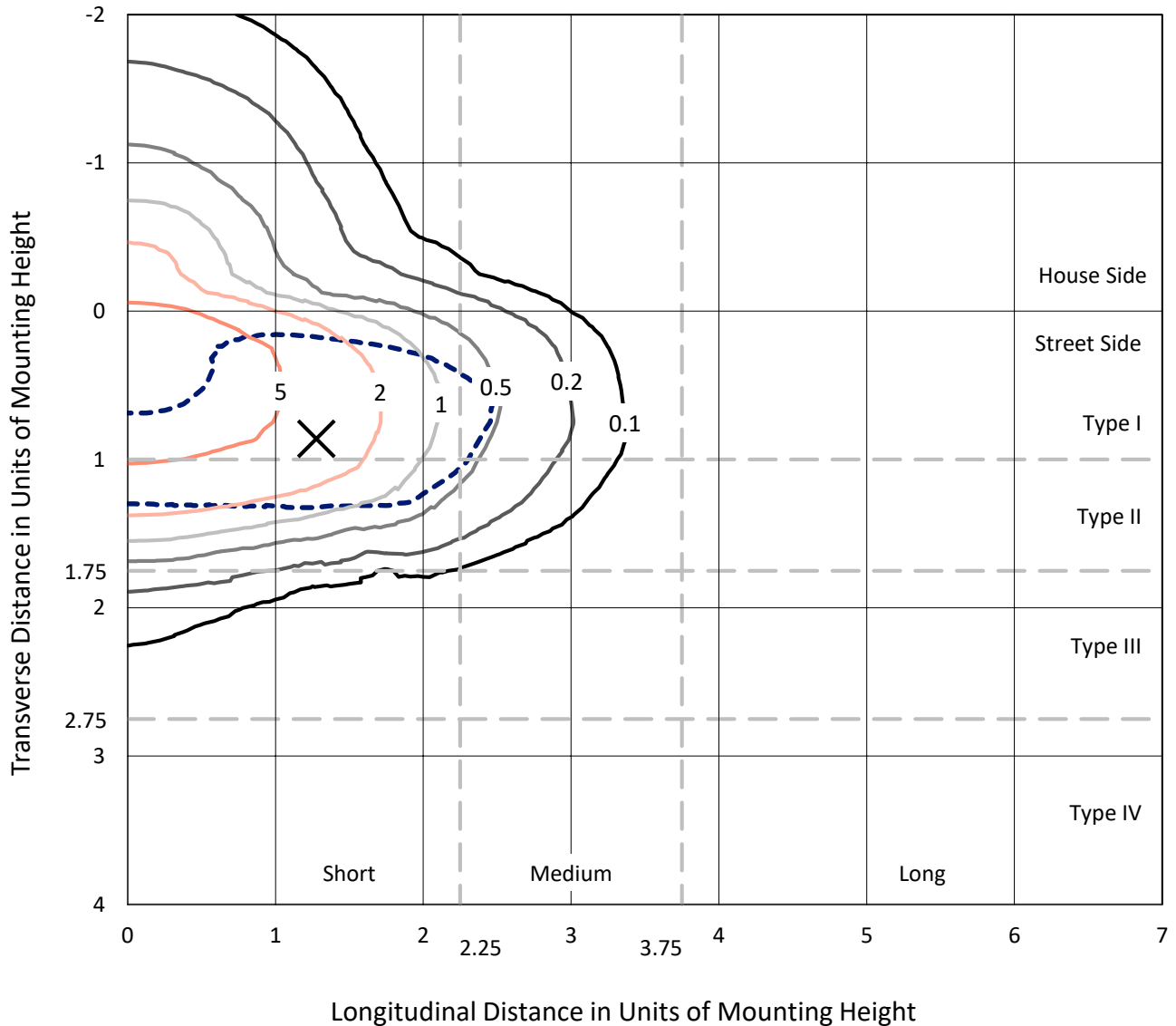
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

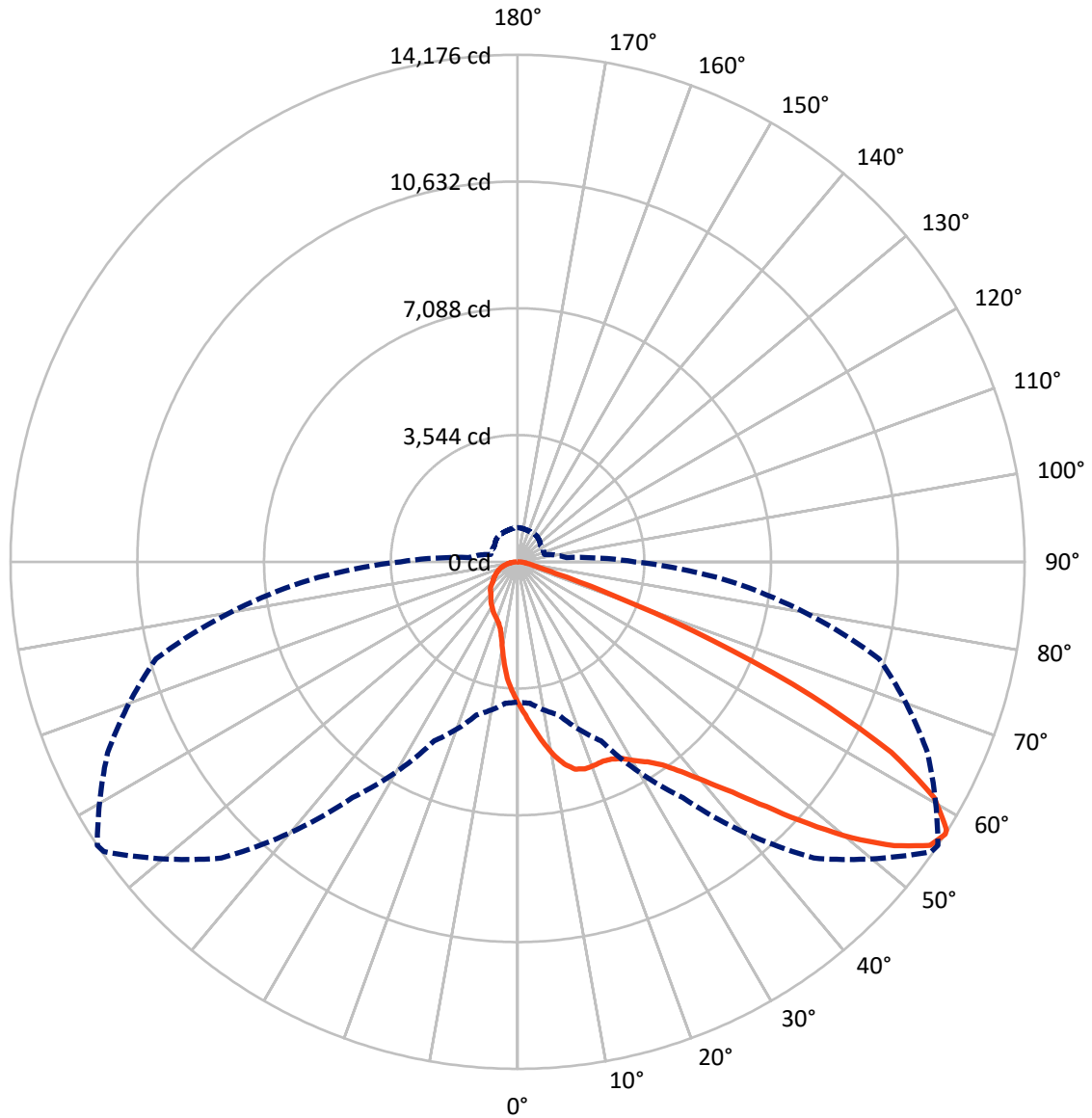
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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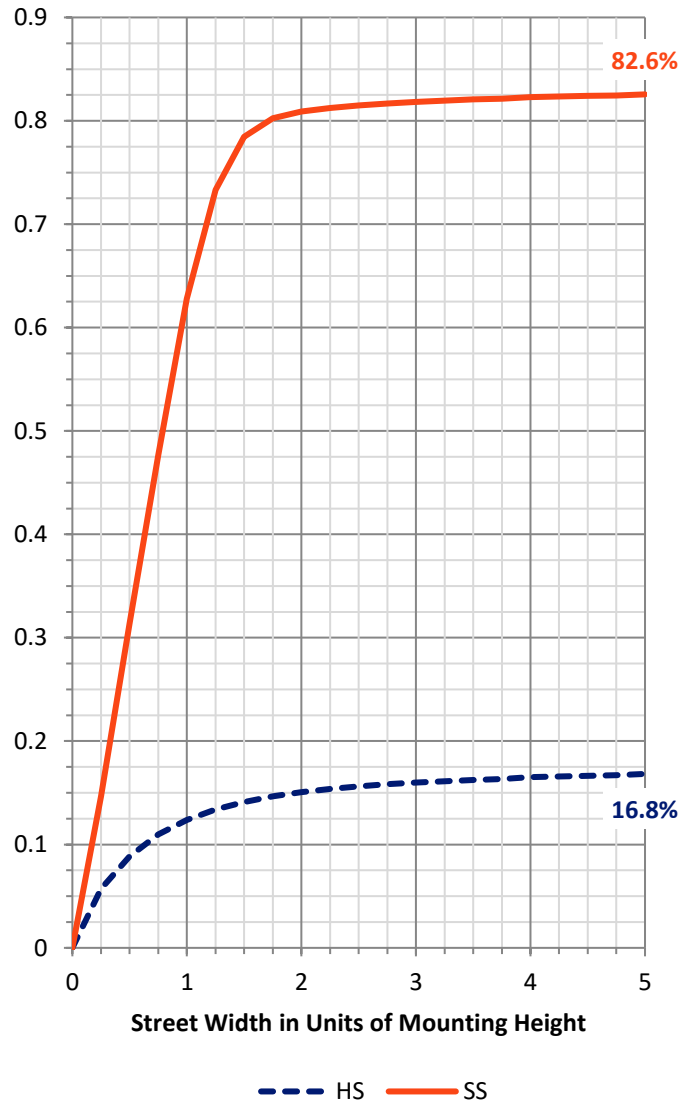
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3085.4	0.0	3085.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	14813.6	0.0	14813.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	17899.0	0.0	17899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	2.1
10°-20°	1072.2	6.0
20°-30°	1746.4	9.8
30°-40°	2610.7	14.6
40°-50°	3959.8	22.1
50°-60°	4438.2	24.8
60°-70°	2621.4	14.6
70°-80°	858.9	4.8
80°-90°	212.2	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°	17899.0	100.0
0°-180°	17899.0	100.0

Coefficient of Utilization

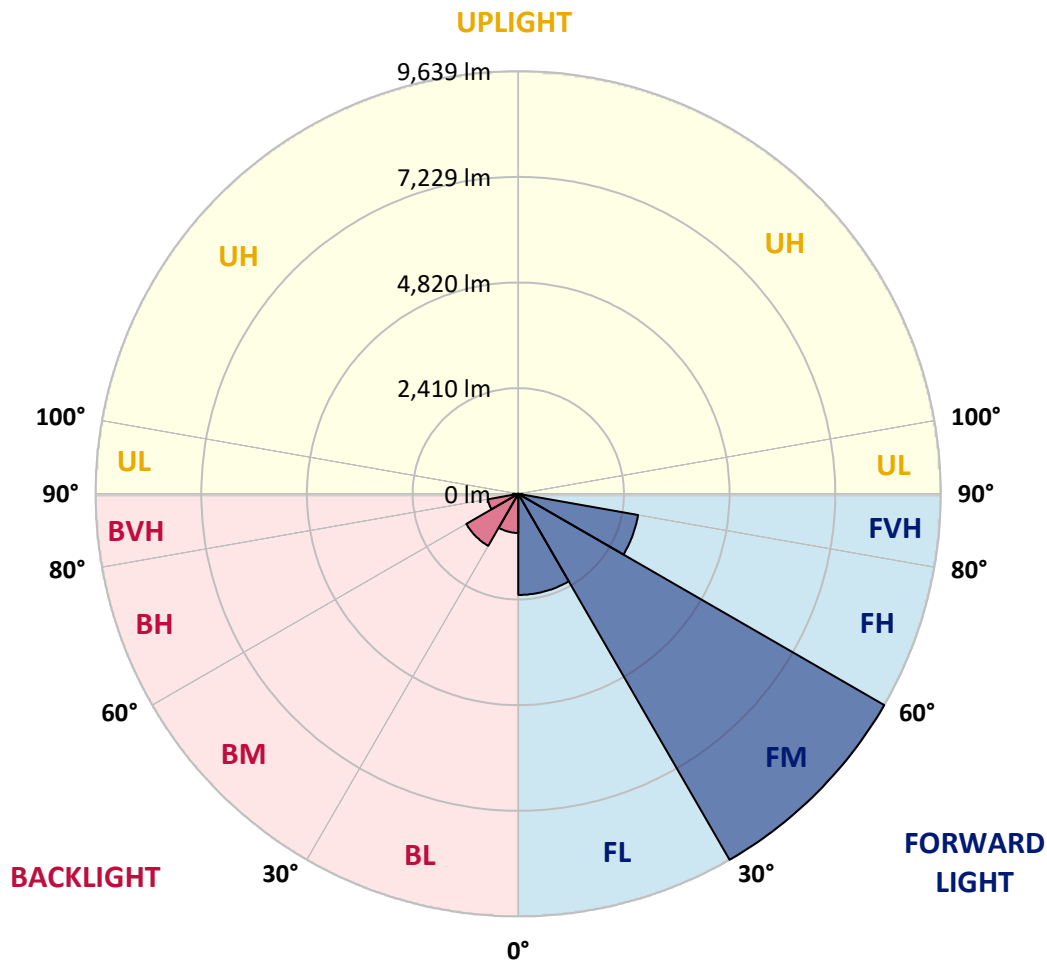


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.7	12.9			
FM (30°-60°)	9639.2	53.9			
FH (60°-80°)	2775.3	15.5			G2/5000
FVH (80°-90°)	93.4	0.5			G1/100
BL (0°-30°)	892.2	5.0	B2/1000		
BM (30°-60°)	1369.5	7.7	B2/2500		
BH (60°-80°)	705.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	118.8	0.7			G2/225
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°	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0
2.5°	4558.7	4600.5	4582.1	4518.1	4468.9	4399.4	4321.9	4298.5	4216.7	4125.0	4014.9
5°	5280.2	5259.3	5229.2	5129.5	5024.3	4901.9	4707.5	4676.8	4494.7	4287.4	4068.4
7.5°	5691.1	5689.3	5671.4	5613.0	5517.1	5357.1	5122.8	5086.5	4811.5	4478.1	4138.6
10°	5631.5	5627.2	5656.7	5717.6	5746.5	5713.3	5515.8	5479.5	5141.8	4689.1	4219.8
12.5°	5292.5	5295.0	5342.4	5470.3	5644.4	5853.5	5821.5	5803.7	5484.5	4927.8	4318.2
15°	5028.6	5034.2	5071.7	5183.0	5388.5	5768.0	6007.3	6013.5	5816.0	5191.0	4433.2
17.5°	4913.0	4924.7	4941.9	5020.0	5208.3	5597.6	6051.6	6084.8	6106.3	5464.2	4543.9
20°	4949.9	4961.0	4965.9	5015.7	5170.1	5494.3	6020.8	6080.5	6329.0	5721.3	4654.6
22.5°	5115.4	5122.1	5125.2	5138.1	5258.1	5523.8	6000.5	6063.3	6490.2	5951.9	4738.3
25°	5389.7	5384.8	5365.1	5348.5	5429.1	5640.7	6047.3	6107.0	6621.2	6161.1	4793.1
27.5°	5718.2	5712.0	5673.9	5628.4	5674.5	5822.8	6182.0	6229.4	6738.7	6356.7	4820.7
30°	6112.5	6096.5	6024.5	5970.4	5988.2	6095.9	6404.1	6447.1	6920.2	6578.8	4847.8
32.5°	6568.3	6551.1	6447.1	6357.3	6357.3	6447.1	6632.9	6668.6	7073.9	6829.7	4891.5
35°	7139.1	7117.6	6982.3	6831.6	6789.1	6834.6	6944.8	6970.0	7350.7	7145.9	4970.8
37.5°	7812.1	7783.2	7607.9	7406.1	7313.2	7310.8	7390.1	7441.8	7793.0	7561.1	5105.5
40°	8486.9	8466.6	8313.4	8154.7	7972.6	7914.2	8036.6	8052.6	8371.2	8076.6	5277.8
42.5°	9008.5	9004.8	8976.5	8997.4	8811.0	8692.9	8788.9	8801.8	9077.4	8634.5	5461.1
45°	9284.1	9290.2	9427.4	9731.3	9800.2	9714.0	9761.4	9765.1	9884.4	9197.3	5629.0
47.5°	9063.2	9095.2	9442.2	10121.9	10685.9	10972.0	10893.2	10938.8	10666.9	9680.8	5760.6
50°	8202.7	8242.1	8832.6	9947.8	11099.3	12189.3	12148.1	12137.6	11298.0	10035.1	5832.0
52.5°	7136.7	7167.4	7654.6	9042.9	10796.1	12862.3	13240.6	13186.4	11859.0	10300.3	5845.5
55°	5513.4	5561.3	6028.2	7236.9	9569.5	12605.1	14043.9	13995.3	12370.2	10439.3	5829.5
57°	3919.6	3970.0	4433.8	5523.2	8050.1	11715.0	14123.9	14175.5	12646.3	10462.7	5847.4
57.5°	3497.6	3549.3	4008.8	5066.8	7576.5	11393.3	14055.0	14141.1	12696.2	10459.0	5857.2
60°	1761.1	1780.8	2073.6	2828.3	4789.4	9210.9	13156.3	13378.3	12741.1	10278.1	5899.7
62.5°	1094.9	1080.8	1071.5	1302.8	2330.1	6108.2	11301.7	11729.2	11881.7	9840.1	5796.9
65°	962.7	936.2	834.7	816.3	1029.1	2966.7	8510.9	9042.9	10045.6	9150.0	5552.1
67.5°	904.2	878.4	764.0	695.1	695.7	1176.1	5283.9	5883.1	7825.6	7983.1	4974.5
70°	844.0	820.6	713.5	632.3	592.4	651.4	2431.0	2885.5	5101.2	6274.9	4157.6
72.5°	766.4	750.5	649.0	565.3	522.9	487.8	930.7	1099.2	2953.2	4214.2	2887.4
75°	685.2	670.5	583.8	503.8	452.1	383.8	524.1	564.7	1500.3	2156.0	1421.6
77.5°	596.1	587.4	519.2	445.4	404.1	318.0	370.9	390.6	643.4	924.5	712.9
80°	474.3	490.9	454.0	396.8	358.6	254.7	262.7	275.6	374.6	451.5	404.8
82.5°	308.8	337.7	355.5	322.3	295.3	200.5	188.8	194.4	244.2	275.6	175.9
85°	128.6	144.6	233.7	211.0	196.2	146.4	126.7	129.2	151.3	156.9	72.0
87.5°	57.2	60.9	102.7	96.6	83.0	50.4	54.1	59.1	80.6	76.3	27.7
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°	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0	3970.0
2.5°	3973.7	3922.0	3833.5	3735.7	3655.7	3591.7	3527.1	3482.8	3431.2	3403.5	3389.3
5°	3976.8	3875.3	3688.9	3497.6	3326.6	3170.4	3021.5	2907.1	2800.0	2742.2	2726.2
7.5°	3989.7	3837.1	3535.7	3220.8	2916.9	2639.5	2425.4	2291.3	2194.8	2151.7	2139.4
10°	4000.2	3792.2	3346.3	2880.0	2466.6	2185.5	2019.5	1944.4	1911.2	1905.7	1900.1
12.5°	4024.8	3746.1	3147.0	2524.5	2116.6	1922.3	1864.4	1859.5	1868.7	1882.3	1882.3
15°	4063.5	3700.6	2919.4	2219.4	1894.0	1825.7	1837.4	1864.4	1889.7	1910.6	1913.7
17.5°	4091.8	3644.6	2674.6	1975.2	1775.2	1793.7	1835.5	1873.7	1899.5	1919.8	1921.6
20°	4112.1	3557.9	2413.1	1788.8	1707.0	1764.2	1816.5	1850.3	1868.1	1888.4	1891.5
22.5°	4101.7	3441.6	2181.2	1655.3	1651.6	1721.1	1770.9	1811.5	1798.0	1778.3	1791.2
25°	4051.2	3281.7	1942.6	1555.7	1593.2	1663.3	1724.8	1697.7	1652.2	1643.6	1648.5
27.5°	3961.4	3077.5	1721.7	1463.4	1525.5	1609.8	1606.1	1579.0	1563.0	1552.0	1558.7
30°	3864.8	2856.0	1528.6	1382.8	1450.5	1520.0	1505.8	1505.2	1489.2	1471.4	1480.0
32.5°	3769.5	2633.3	1375.4	1316.4	1393.9	1403.1	1433.9	1443.1	1411.7	1374.2	1371.7
35°	3686.4	2423.0	1259.2	1256.1	1325.6	1326.8	1371.7	1358.8	1280.7	1241.9	1241.9
37.5°	3624.3	2213.2	1170.6	1202.0	1235.8	1267.8	1290.5	1237.0	1224.1	1202.6	1202.0
40°	3597.2	2028.7	1115.2	1160.7	1172.4	1213.0	1154.6	1175.5	1181.7	1170.6	1170.6
42.5°	3569.0	1868.1	1067.2	1129.4	1127.5	1122.0	1092.5	1119.5	1144.1	1144.7	1142.9
45°	3540.7	1729.7	1024.8	1062.3	1088.2	1028.5	1034.0	1062.9	1097.4	1109.7	1109.7
47.5°	3509.3	1620.2	986.0	991.6	1031.6	991.6	987.3	1009.4	1050.0	1069.7	1074.0
50°	3440.4	1521.8	941.8	929.5	940.5	954.1	957.7	968.2	1013.1	1044.5	1051.9
52.5°	3345.0	1433.9	885.2	872.2	872.2	923.3	940.5	943.6	981.7	1019.3	1026.6
55°	3265.7	1377.9	826.7	824.3	821.8	890.7	920.2	925.1	951.6	981.1	984.8
57°	3271.2	1373.6	781.8	784.3	783.7	857.5	901.2	911.6	925.1	950.4	954.7
57.5°	3274.3	1376.6	772.0	773.2	772.6	848.3	895.6	907.3	917.8	944.2	948.5
60°	3320.4	1384.6	732.0	718.5	721.5	799.0	864.3	879.0	885.8	920.8	926.4
62.5°	3252.2	1349.0	700.0	667.4	667.4	747.4	820.6	844.0	854.4	901.8	911.0
65°	3054.1	1248.7	662.5	609.6	615.7	695.7	768.3	806.4	822.4	881.5	891.3
67.5°	2748.4	1132.4	622.5	557.9	564.1	641.6	714.2	755.4	780.6	859.3	867.3
70°	2350.4	990.4	568.4	503.2	510.6	582.5	650.2	696.9	734.5	838.4	840.9
72.5°	1732.8	812.0	492.7	442.9	450.9	513.6	585.6	639.7	690.2	786.1	784.9
75°	1030.3	634.8	409.1	382.0	387.5	446.0	527.2	593.0	668.6	765.8	777.5
77.5°	625.0	478.0	333.4	319.9	326.6	386.3	485.3	555.5	659.4	722.2	718.5
80°	377.7	341.4	266.3	257.7	264.5	330.3	449.0	527.2	576.4	617.0	617.0
82.5°	197.5	208.5	195.6	188.8	198.1	268.2	408.4	460.1	509.3	437.4	408.4
85°	80.6	108.9	118.7	118.1	123.6	185.8	352.5	393.7	328.5	311.9	319.2
87.5°	27.1	46.1	57.8	49.8	52.3	116.9	244.2	190.1	225.8	157.5	149.5
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)