

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: P193106

Luminaire Tested: **GAN-AF-08-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36581.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

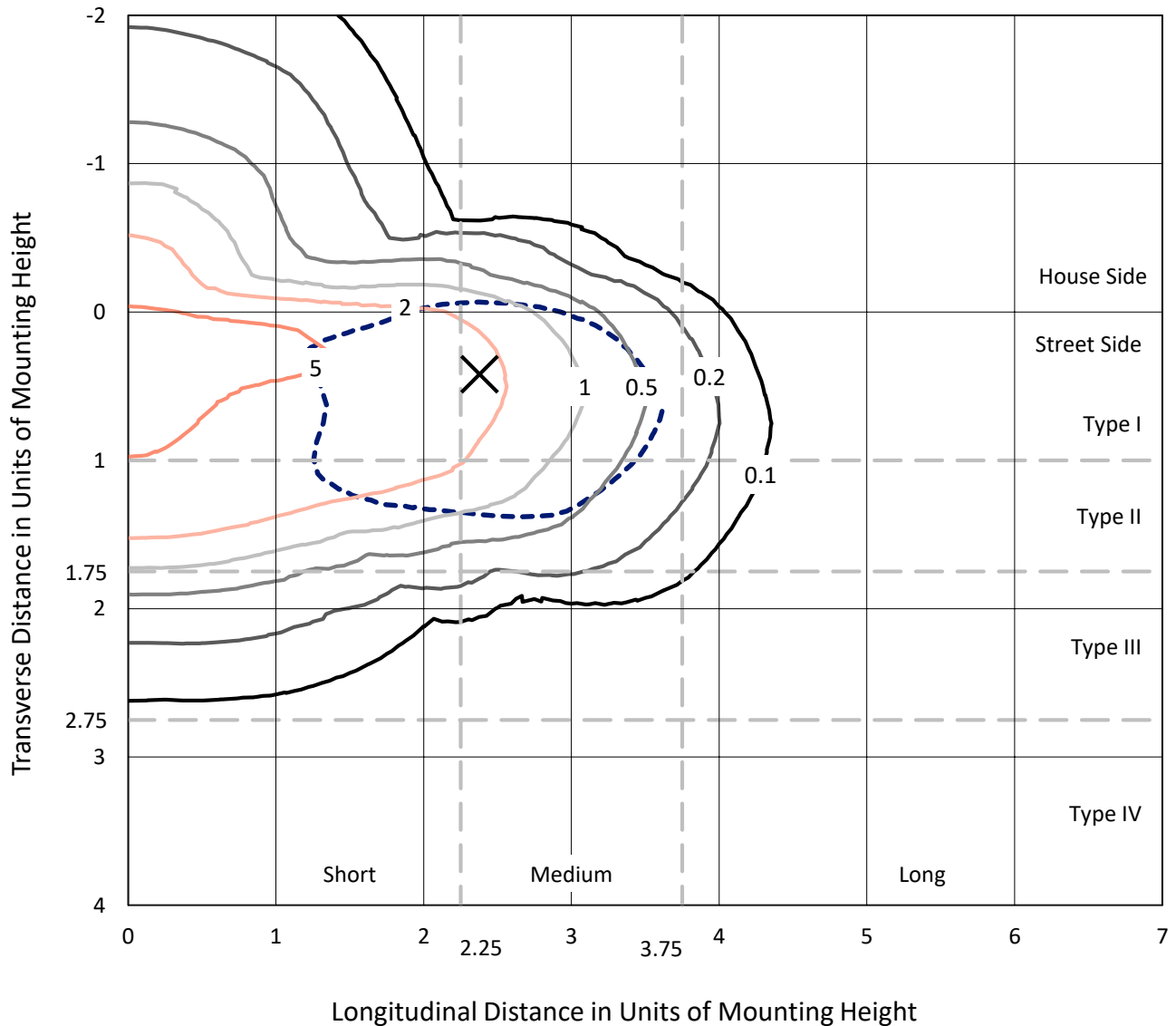
Input Watts (W): 334
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

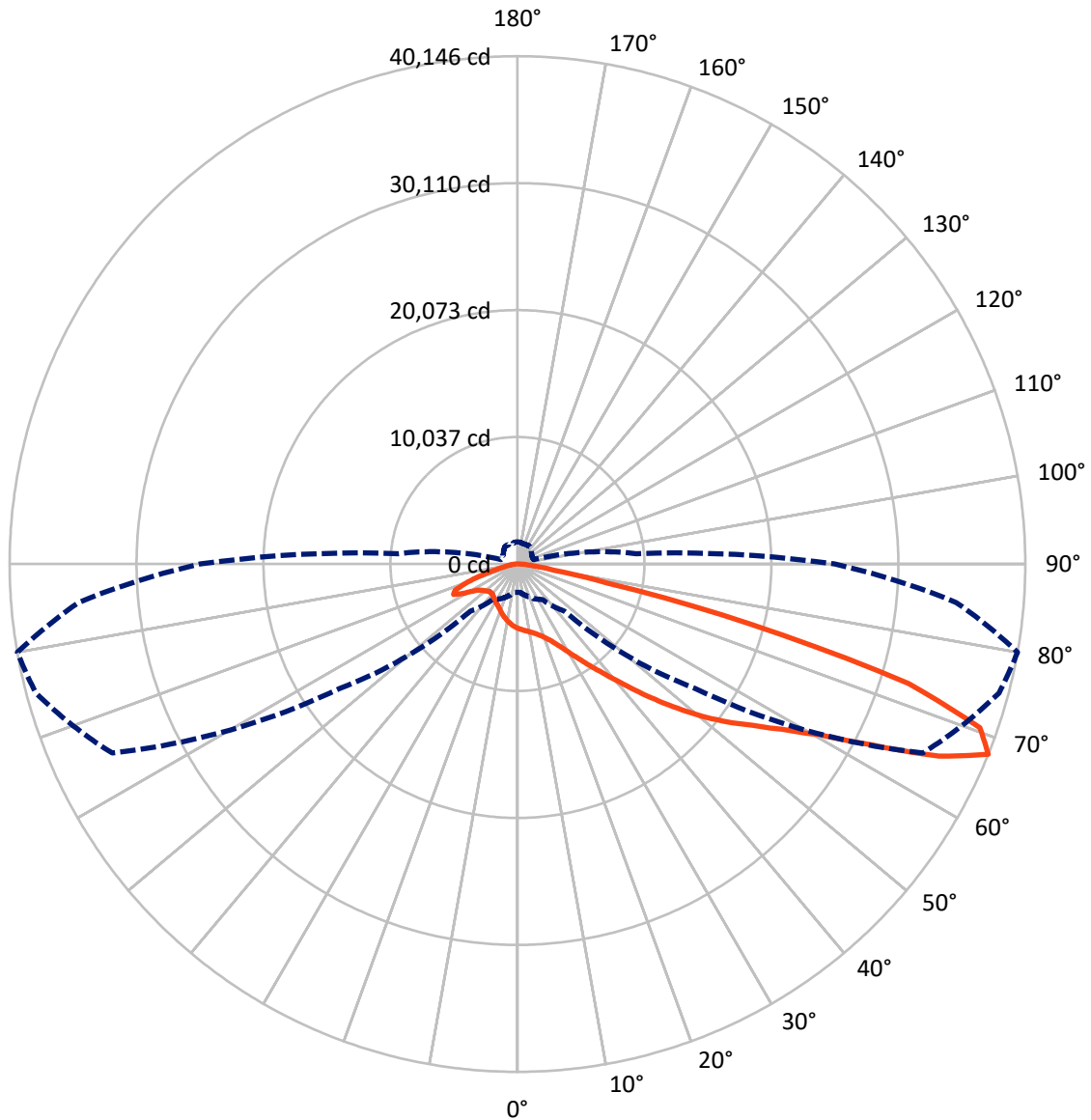
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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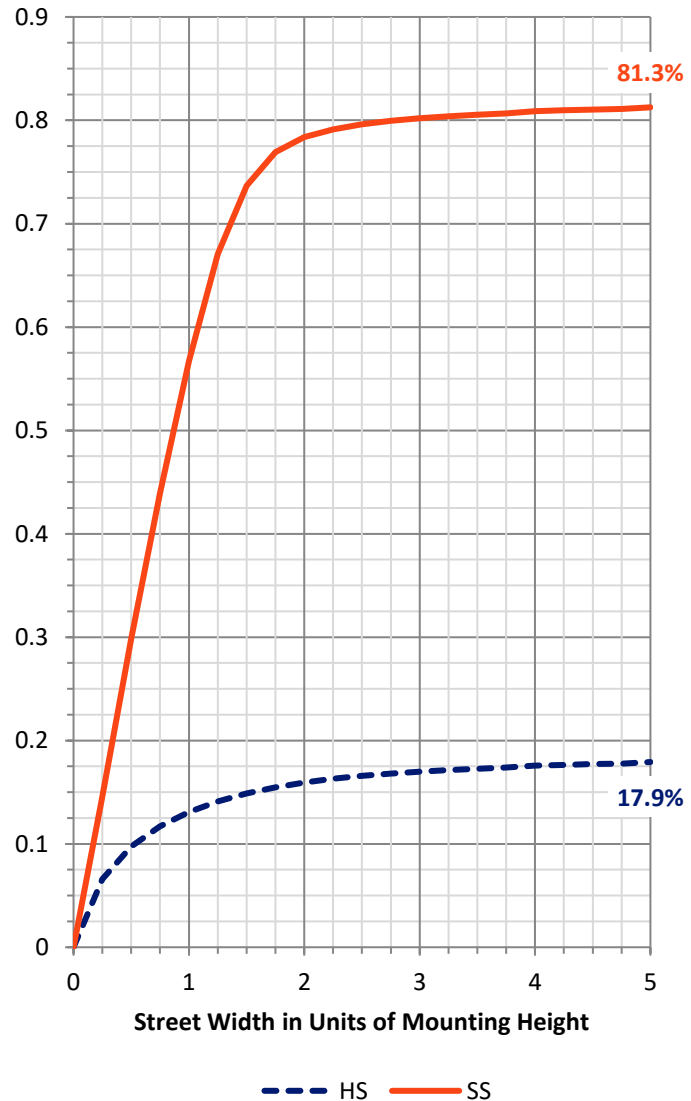
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6736.9	0.0	6736.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	29844.2	0.0	29844.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	36581.1	0.0	36581.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	1.3
10°-20°	1350.5	3.7
20°-30°	2235.4	6.1
30°-40°	3656.5	10.0
40°-50°	5903.8	16.1
50°-60°	8523.3	23.3
60°-70°	9406.0	25.7
70°-80°	4335.6	11.9
80°-90°	701.3	1.9
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°	36581.1	100.0
0°-180°	36581.1	100.0



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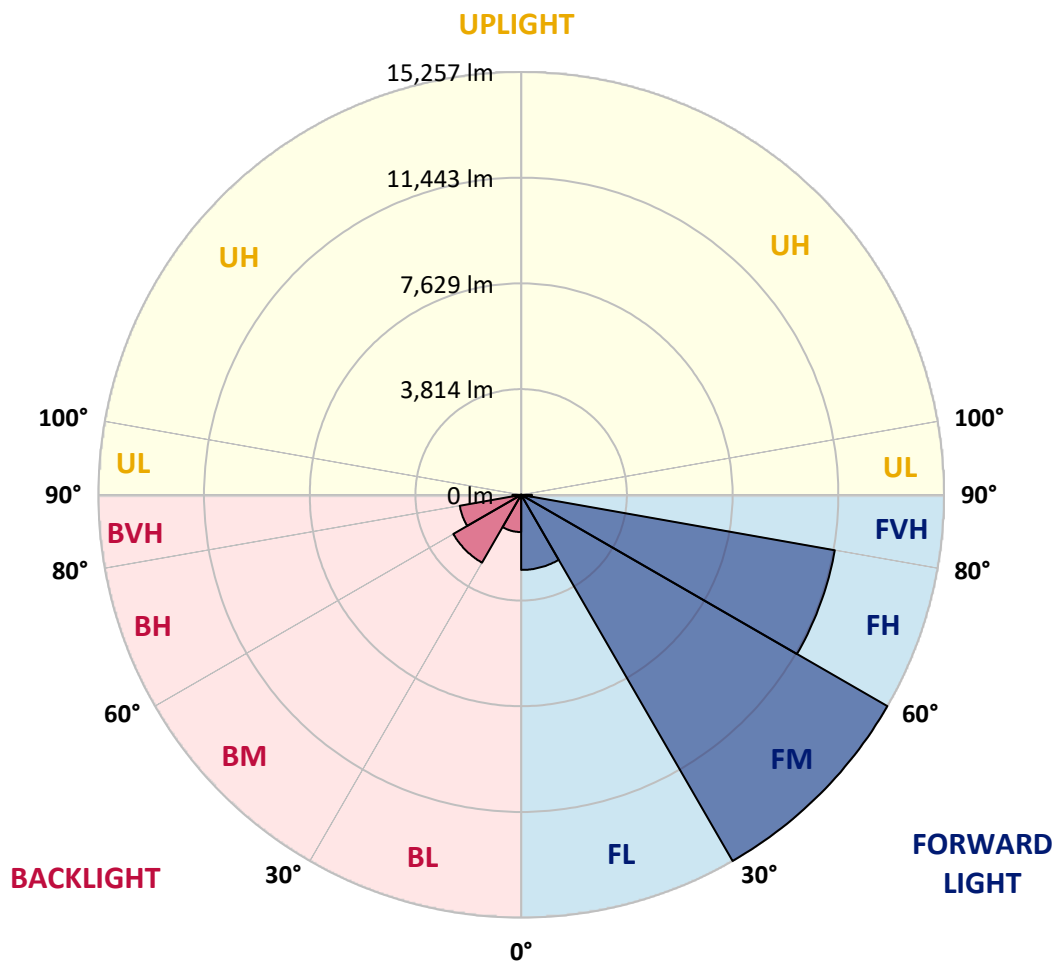
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2710.6	7.4			
FM (30°-60°)	15257.0	41.7			
FH (60°-80°)	11491.1	31.4			G4/12000
FVH (80°-90°)	385.5	1.1			G3/500
BL (0°-30°)	1344.1	3.7	B3/2500		
BM (30°-60°)	2826.5	7.7	B3/5000		
BH (60°-80°)	2250.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	315.7	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2
2.5°	5559.4	5527.0	5532.5	5523.4	5496.4	5449.6	5399.1	5307.3	5211.8	5161.4	5121.7
5°	6024.0	6015.0	6002.4	5973.6	5905.3	5807.9	5687.3	5525.2	5350.5	5258.6	5170.4
7.5°	6371.7	6366.2	6350.0	6332.0	6265.4	6148.3	5966.4	5735.9	5482.0	5355.9	5219.1
10°	6400.4	6409.4	6422.0	6470.7	6479.7	6416.7	6231.2	5952.0	5618.8	5456.7	5282.0
12.5°	6155.5	6175.4	6224.0	6348.2	6479.7	6557.0	6461.7	6178.9	5779.2	5582.8	5361.4
15°	5831.3	5842.2	5901.6	6072.6	6308.6	6548.1	6638.1	6429.3	5986.2	5745.0	5480.2
17.5°	5692.7	5698.1	5739.5	5853.0	6072.6	6414.8	6737.3	6701.2	6240.2	5946.7	5626.1
20°	5622.5	5635.0	5694.5	5806.1	5944.8	6243.7	6751.6	6994.8	6542.8	6198.8	5809.8
22.5°	5822.3	5817.0	5838.6	5894.4	6011.5	6191.5	6740.9	7297.3	6928.1	6522.9	6049.2
25°	6288.8	6308.6	6270.8	6207.8	6245.6	6371.7	6798.4	7625.1	7410.7	6938.9	6362.6
27.5°	6953.4	6933.5	6877.7	6730.1	6652.6	6706.6	6989.4	7978.0	8010.5	7486.5	6776.8
30°	7616.0	7599.8	7545.9	7365.7	7207.3	7162.3	7360.4	8383.3	8725.5	8143.7	7284.7
32.5°	8304.0	8286.0	8235.5	8055.4	7864.6	7760.1	7888.0	8851.5	9568.3	8928.8	7882.6
35°	9152.2	9118.0	9011.8	8761.4	8574.1	8493.2	8552.5	9440.4	10540.8	9858.3	8608.3
37.5°	9950.0	10002.2	9894.2	9548.5	9305.3	9276.5	9343.1	10158.9	11588.9	10897.3	9442.1
40°	10751.4	10760.5	10663.1	10380.5	10130.2	10083.3	10250.8	11030.6	12826.1	12139.9	10456.1
42.5°	11579.9	11597.9	11434.0	11172.9	10989.2	10998.1	11189.0	12051.8	14245.2	13604.1	11623.1
45°	12561.3	12588.5	12408.2	12066.1	11898.7	12235.4	12156.1	13197.1	15801.2	15268.1	12962.9
47.5°	13587.9	13629.3	13492.4	13171.9	12962.9	13425.8	13123.2	14466.7	17476.0	17052.8	14434.4
50°	14148.0	14207.4	14340.8	14317.3	14272.2	14194.9	14201.9	15828.3	19203.2	18911.3	15947.1
52.5°	13847.2	13845.5	14331.6	14922.4	15552.7	15599.5	15516.7	17263.5	20816.7	20728.5	17371.5
55°	12471.3	12565.0	13301.6	14445.1	16166.8	17241.9	17486.8	18907.8	22401.5	22504.2	18817.7
57.5°	10180.6	10258.1	11252.1	12845.9	15338.4	18218.0	20289.1	21297.6	24173.6	24652.7	20742.9
60°	6904.7	6998.4	8051.9	9966.3	13108.8	17674.3	22956.3	25562.2	26295.1	27384.7	23444.3
62.5°	4057.5	4142.1	5001.2	6287.0	9229.6	15147.4	24126.8	31629.5	29664.7	31507.0	27564.8
65°	2793.2	2850.8	3268.7	3913.3	5303.7	10202.2	22675.3	35818.4	34849.5	36614.4	32342.6
67.5°	2247.6	2240.4	2571.8	3011.0	3414.6	5260.5	17146.5	35344.8	39409.4	40146.0	34822.4
70°	1851.3	1844.2	2069.3	2432.9	2728.4	2962.4	9339.6	29826.6	38480.1	38779.1	32538.9
72.5°	1548.7	1556.0	1700.1	1970.2	2238.5	2231.3	4104.4	20982.4	30271.6	32339.0	25938.5
75°	1307.5	1311.1	1406.5	1597.4	1817.1	1797.4	2225.9	11367.4	17596.8	19035.7	14378.5
77.5°	1113.0	1116.5	1177.9	1284.1	1440.7	1433.5	1624.4	4911.1	7340.5	7250.5	4918.3
80°	992.3	992.3	1021.1	1040.9	1127.3	1095.0	1204.8	2359.2	3103.0	2865.3	1963.0
82.5°	778.0	781.6	958.1	950.9	887.8	846.4	846.4	1390.4	1644.3	1520.1	1149.0
85°	437.6	435.8	617.8	745.5	781.6	596.1	590.6	778.0	895.1	788.9	556.4
87.5°	187.3	190.8	286.4	331.4	443.0	370.9	365.6	401.6	455.6	394.4	257.6
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°	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2	5082.2
2.5°	5084.0	5037.2	4934.4	4806.7	4691.4	4615.7	4547.3	4448.3	4453.6	4385.2	4334.8
5°	5080.3	4983.1	4745.4	4462.7	4190.7	3994.4	3846.8	3713.5	3681.1	3618.0	3580.2
7.5°	5084.0	4925.5	4525.7	4073.6	3736.8	3488.3	3362.4	3292.1	3275.8	3254.3	3256.0
10°	5096.6	4873.3	4284.4	3709.9	3356.9	3193.0	3162.4	3184.1	3209.3	3216.5	3218.2
12.5°	5125.4	4826.4	4019.6	3385.7	3119.2	3068.8	3121.0	3194.8	3243.5	3266.9	3265.1
15°	5190.3	4790.5	3765.7	3131.8	2987.7	3014.7	3112.0	3216.5	3286.6	3319.1	3320.9
17.5°	5260.5	4738.2	3504.6	2937.3	2890.5	2958.8	3079.6	3202.1	3288.4	3324.5	3331.7
20°	5352.3	4673.3	3230.8	2791.5	2798.5	2876.0	2989.6	3112.0	3207.5	3238.0	3252.4
22.5°	5473.1	4603.1	2991.3	2672.6	2694.2	2753.6	2841.9	2948.2	3031.0	3045.4	3057.9
25°	5635.0	4527.4	2800.5	2564.6	2573.5	2607.7	2667.1	2730.2	2787.9	2771.6	2784.3
27.5°	5853.0	4462.7	2658.2	2465.4	2449.3	2456.4	2487.1	2506.9	2537.4	2492.4	2497.8
30°	6108.6	4392.4	2548.3	2379.0	2334.0	2321.4	2328.6	2339.3	2362.8	2301.5	2292.6
32.5°	6405.9	4307.8	2445.7	2303.4	2240.4	2215.1	2218.7	2247.6	2337.6	2299.8	2279.9
35°	6751.6	4212.4	2337.6	2220.4	2177.3	2141.3	2137.6	2227.7	2496.0	2472.6	2454.6
37.5°	7156.8	4116.9	2229.6	2126.8	2130.4	2090.9	2078.2	2181.0	2526.7	2434.9	2422.3
40°	7671.8	4066.4	2137.6	2027.9	2072.8	2067.4	2042.3	2094.5	2324.9	2157.6	2135.9
42.5°	8309.3	4073.6	2069.3	1921.6	2004.5	2062.0	2022.4	2024.2	2107.1	1981.0	1961.2
45°	9096.4	4158.3	2020.6	1836.9	1927.0	2056.7	2015.2	1986.5	1993.7	1927.0	1916.2
47.5°	10014.9	4333.0	1986.5	1766.7	1853.1	2036.8	2013.4	1975.6	1959.3	1923.4	1914.3
50°	11035.9	4586.9	1961.2	1700.1	1786.5	2004.5	2015.2	1964.8	1946.8	1932.4	1927.0
52.5°	12039.1	4876.9	1923.4	1642.3	1734.3	1964.8	2020.6	1954.0	1934.2	1923.4	1917.9
55°	13157.4	5238.9	1865.7	1593.8	1691.0	1914.3	2020.6	1937.8	1916.2	1917.9	1916.2
57.5°	14668.5	5824.2	1797.4	1552.3	1638.8	1853.1	1986.5	1919.8	1892.8	1894.5	1896.4
60°	17029.4	6856.1	1714.5	1510.9	1574.0	1781.2	1939.6	1880.2	1853.1	1860.3	1862.1
62.5°	20501.6	8370.7	1606.4	1449.8	1505.6	1703.7	1874.8	1829.8	1802.7	1820.7	1820.7
65°	24110.7	9706.9	1473.2	1372.3	1433.5	1619.0	1793.7	1766.7	1739.7	1781.2	1779.3
67.5°	25081.3	9408.0	1339.8	1287.6	1361.5	1525.4	1696.5	1682.0	1667.7	1739.7	1736.1
70°	22280.9	7553.0	1217.3	1201.2	1282.2	1424.5	1592.0	1592.0	1583.0	1637.0	1624.4
72.5°	16975.4	5355.9	1100.4	1109.3	1192.2	1314.7	1478.5	1491.2	1476.7	1503.7	1492.9
75°	9087.4	3065.2	983.4	1008.5	1080.6	1203.1	1352.5	1365.0	1356.1	1354.3	1359.7
77.5°	3020.2	1498.4	860.9	900.4	963.4	1087.7	1221.0	1240.8	1219.3	1215.6	1213.8
80°	1345.3	942.0	725.8	778.0	833.8	956.2	1082.3	1098.6	1075.1	1107.6	1066.2
82.5°	864.5	619.5	581.7	639.2	693.4	824.8	943.7	947.3	925.7	1075.1	916.6
85°	419.7	383.6	437.6	489.8	536.7	648.4	781.6	783.4	729.5	664.6	641.2
87.5°	208.9	223.3	291.7	338.6	361.9	444.8	569.1	558.4	534.9	486.2	448.4
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)