

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: P320921

Luminaire Tested: **GAN-SA7B-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320921
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-SA7B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 37765 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

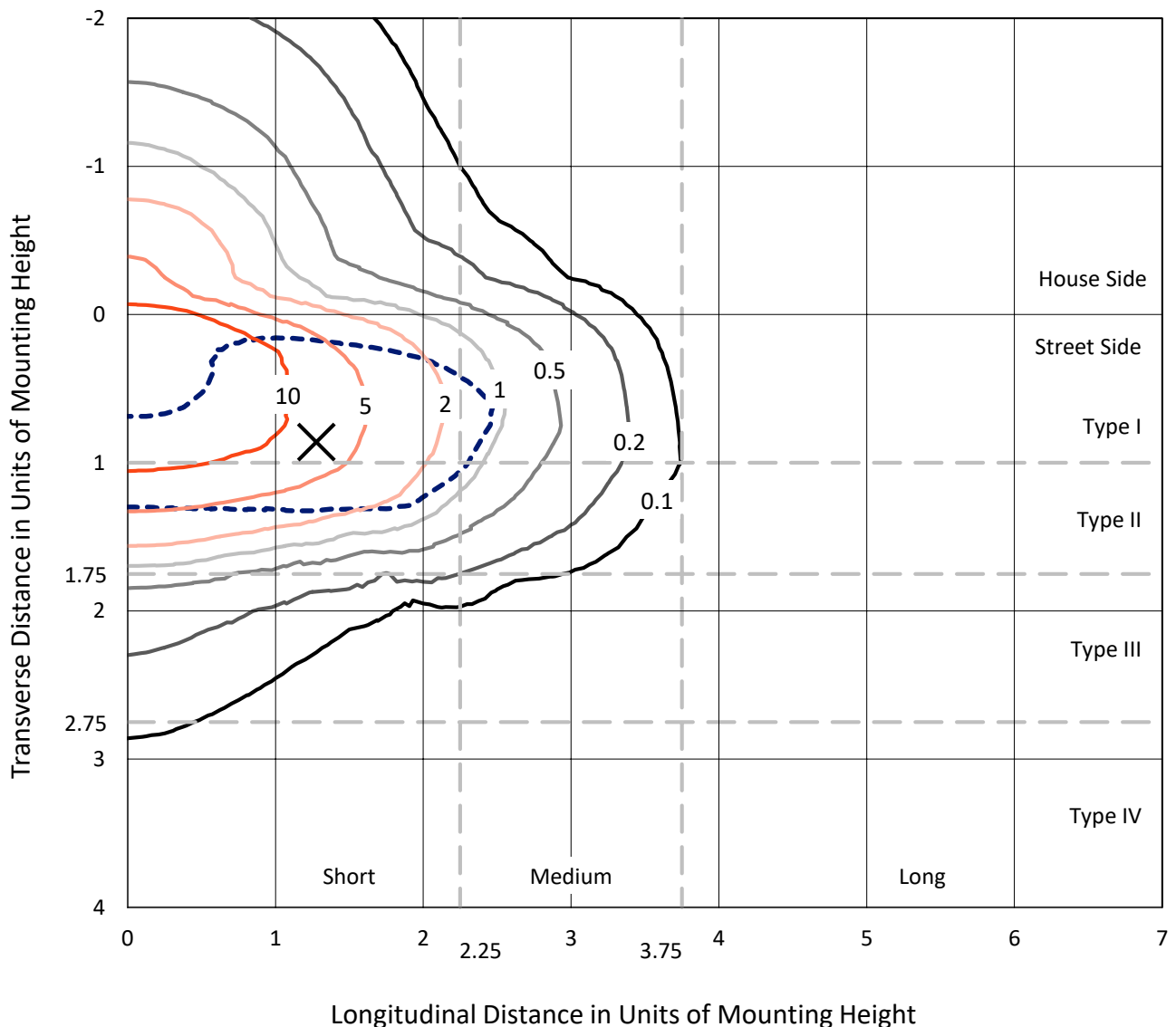
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

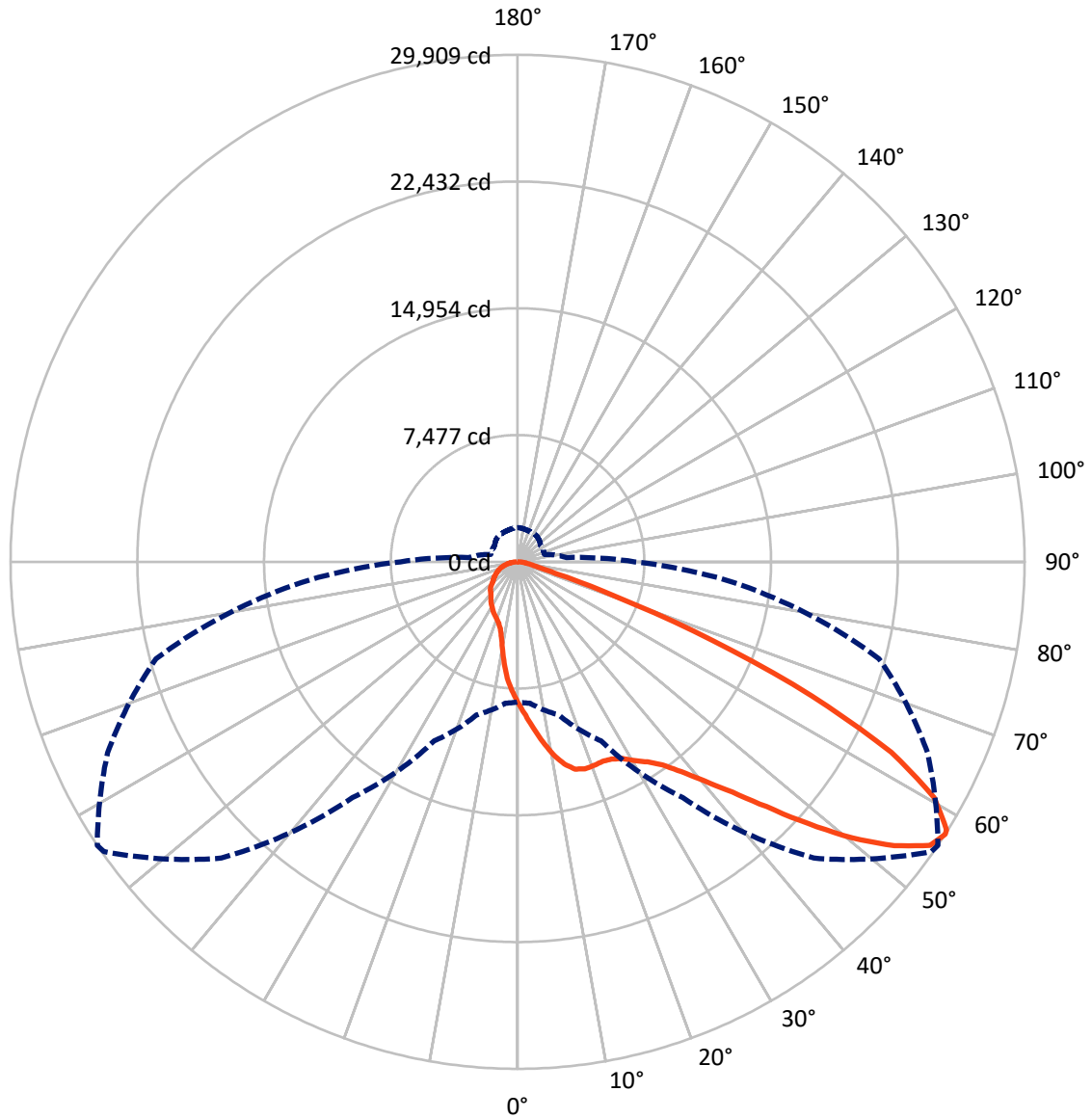
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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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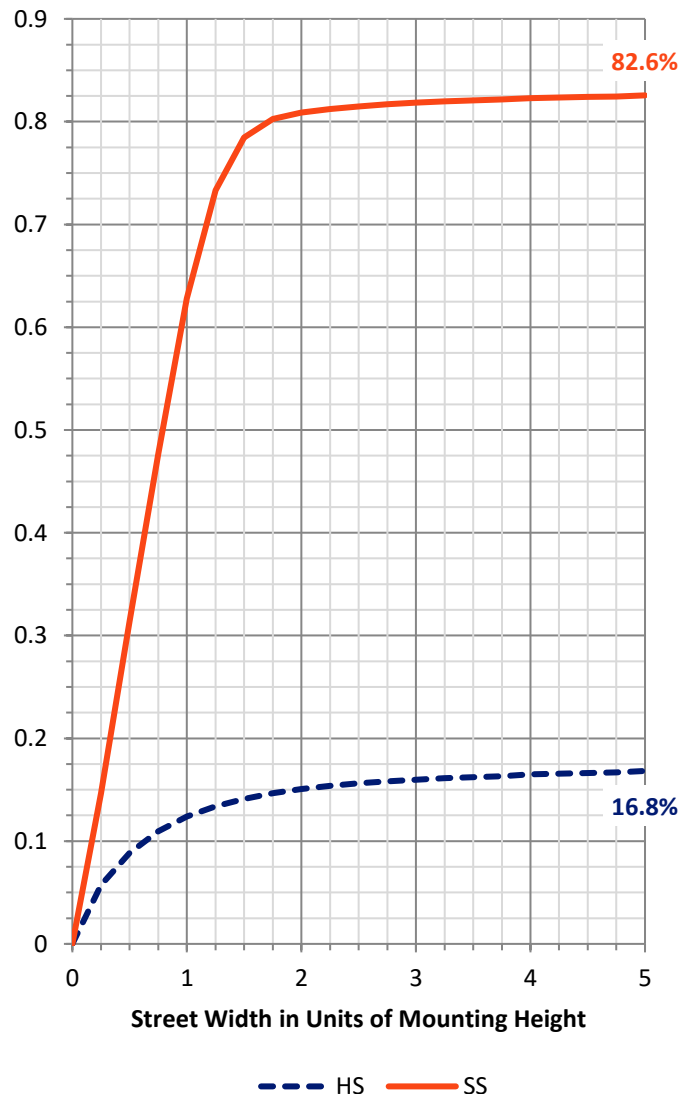
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6509.9	0.0	6509.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31255.1	0.0	31255.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	37765.0	0.0	37765.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.2	2.1
10°-20°	2262.2	6.0
20°-30°	3684.7	9.8
30°-40°	5508.2	14.6
40°-50°	8354.8	22.1
50°-60°	9364.2	24.8
60°-70°	5530.9	14.6
70°-80°	1812.1	4.8
80°-90°	447.7	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°	37765.0	100.0
0°-180°	37765.0	100.0

Coefficient of Utilization

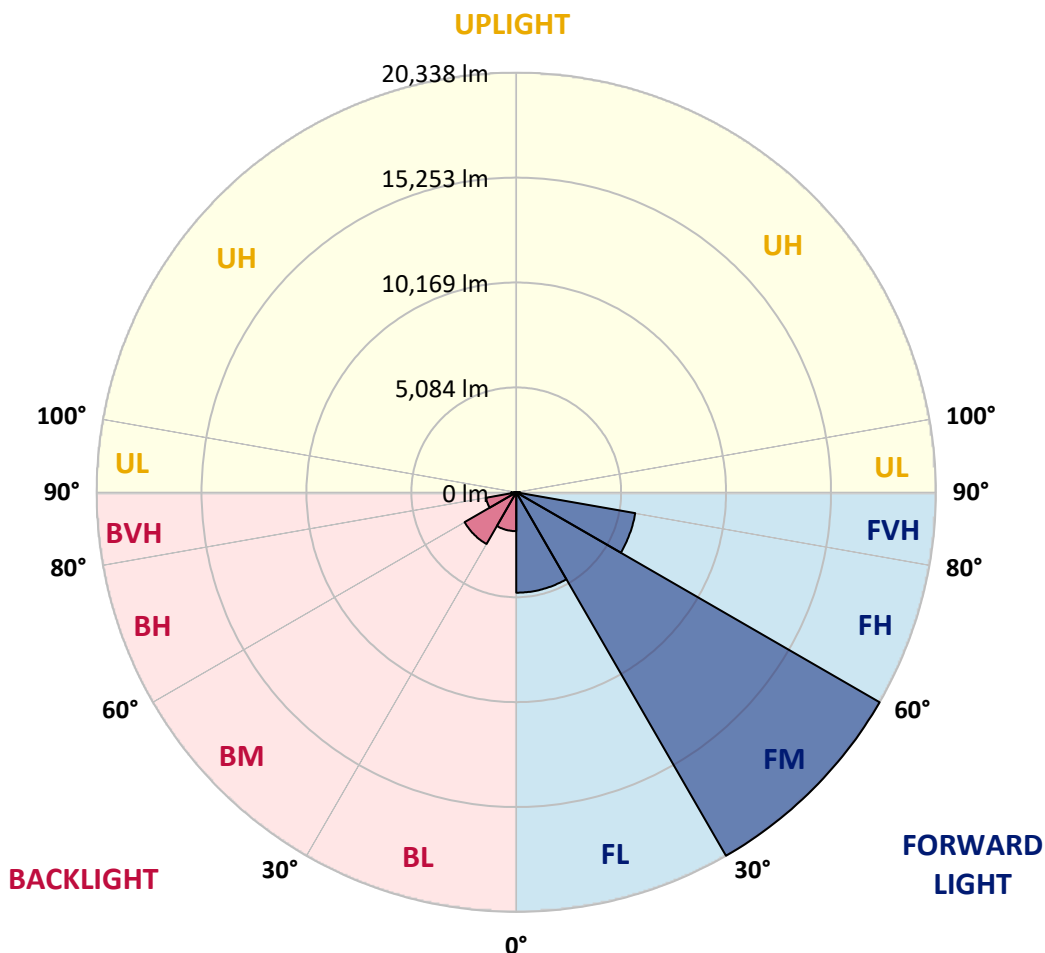


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4864.7	12.9			
FM (30°-60°)	20337.7	53.9			
FH (60°-80°)	5855.6	15.5			G3/7500
FVH (80°-90°)	197.1	0.5			G2/225
BL (0°-30°)	1882.4	5.0	B3/2500		
BM (30°-60°)	2889.5	7.7	B3/5000		
BH (60°-80°)	1487.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	250.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3
2.5°	9618.4	9706.6	9667.7	9532.7	9428.9	9282.2	9118.7	9069.4	8896.7	8703.4	8471.1
5°	11140.7	11096.6	11033.0	10822.8	10600.8	10342.6	9932.4	9867.5	9483.4	9046.0	8584.0
7.5°	12007.7	12003.8	11966.2	11842.9	11640.4	11303.0	10808.5	10731.9	10151.8	9448.3	8731.9
10°	11881.8	11872.7	11935.0	12063.5	12124.5	12054.4	11637.8	11561.2	10848.7	9893.5	8903.2
12.5°	11166.7	11171.9	11271.8	11541.8	11909.1	12350.3	12282.8	12245.2	11571.6	10397.1	9110.9
15°	10609.9	10621.6	10700.8	10935.7	11369.1	12169.9	12674.8	12687.8	12271.2	10952.5	9353.6
17.5°	10365.9	10390.6	10426.9	10591.7	10988.9	11810.4	12768.2	12838.3	12883.7	11528.8	9587.2
20°	10443.8	10467.1	10477.5	10582.7	10908.4	11592.4	12703.3	12829.2	13353.6	12071.3	9820.8
22.5°	10792.9	10807.2	10813.7	10840.9	11094.0	11654.7	12660.5	12792.9	13693.6	12558.0	9997.3
25°	11371.7	11361.4	11319.8	11284.8	11454.8	11901.3	12759.1	12885.0	13970.0	12999.2	10112.8
27.5°	12064.8	12051.8	11971.4	11875.3	11972.6	12285.4	13043.4	13143.3	14217.9	13412.0	10171.2
30°	12896.7	12863.0	12711.1	12596.9	12634.6	12861.7	13511.9	13602.7	14600.8	13880.5	10228.3
32.5°	13858.4	13822.1	13602.7	13413.3	13413.3	13602.7	13994.7	14070.0	14925.3	14410.0	10320.5
35°	15062.8	15017.4	14731.9	14413.9	14324.3	14420.4	14652.7	14705.9	15509.3	15077.1	10487.9
37.5°	16482.7	16421.7	16051.8	15626.1	15430.1	15424.9	15592.3	15701.4	16442.4	15953.1	10772.1
40°	17906.4	17863.6	17540.4	17205.6	16821.4	16698.1	16956.4	16990.1	17662.4	17040.7	11135.5
42.5°	19007.0	18999.2	18939.5	18983.6	18590.4	18341.2	18543.7	18570.9	19152.3	18217.9	11522.3
45°	19588.4	19601.4	19890.8	20532.0	20677.3	20495.6	20595.6	20603.3	20855.1	19405.4	11876.6
47.5°	19122.5	19190.0	19922.0	21356.1	22546.2	23149.7	22983.6	23079.6	22506.0	20425.5	12154.3
50°	17306.8	17389.9	18635.8	20988.8	23418.4	25718.2	25631.2	25609.1	23837.6	21173.1	12304.9
52.5°	15057.6	15122.5	16150.4	19079.7	22778.5	27138.0	27936.2	27822.0	25021.2	21732.5	12333.5
55°	11632.6	11733.8	12718.9	15269.2	20190.6	26595.5	29631.2	29528.6	26099.7	22025.8	12299.7
57°	8269.9	8376.3	9354.9	11653.4	16984.9	24717.5	29799.9	29908.9	26682.5	22075.1	12337.3
57.5°	7379.6	7488.6	8458.1	10690.4	15985.6	24038.7	29654.5	29836.2	26787.6	22067.3	12358.1
60°	3715.7	3757.3	4375.0	5967.5	10105.0	19434.0	27758.4	28226.9	26882.3	21685.7	12447.7
62.5°	2310.2	2280.3	2260.9	2748.8	4916.2	12887.6	23845.4	24747.4	25069.2	20761.7	12230.9
65°	2031.1	1975.3	1761.2	1722.2	2171.3	6259.5	17957.0	19079.7	21195.2	19305.5	11714.4
67.5°	1907.8	1853.3	1611.9	1466.6	1467.9	2481.5	11148.5	12412.6	16511.2	16843.5	10495.7
70°	1780.6	1731.3	1505.5	1334.2	1249.8	1374.4	5129.1	6088.2	10763.1	13239.3	8772.2
72.5°	1617.1	1583.4	1369.2	1192.7	1103.2	1029.2	1963.6	2319.3	6231.0	8891.6	6092.1
75°	1445.8	1414.7	1231.7	1062.9	953.9	809.9	1105.8	1191.4	3165.5	4549.0	2999.3
77.5°	1257.6	1239.4	1095.4	939.6	852.7	671.0	782.6	824.1	1357.5	1950.7	1504.2
80°	1000.6	1035.7	957.8	837.1	756.6	537.3	554.2	581.4	790.4	952.6	854.0
82.5°	651.5	712.5	750.2	680.1	623.0	423.1	398.4	410.1	515.2	581.4	371.2
85°	271.3	305.0	493.2	445.2	414.0	308.9	267.4	272.5	319.3	331.0	151.8
87.5°	120.7	128.5	216.7	203.8	175.2	106.4	114.2	124.6	170.0	160.9	58.4
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°	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3	8376.3
2.5°	8384.1	8275.1	8088.2	7881.8	7713.1	7578.1	7441.9	7348.4	7239.4	7181.0	7151.1
5°	8390.6	8176.4	7783.2	7379.6	7018.8	6689.1	6375.0	6133.6	5907.8	5785.8	5752.1
7.5°	8417.8	8096.0	7460.0	6795.5	6154.4	5569.1	5117.4	4834.5	4630.7	4539.9	4513.9
10°	8439.9	8001.2	7060.3	6076.5	5204.4	4611.3	4260.8	4102.5	4032.4	4020.7	4009.1
12.5°	8491.8	7903.9	6639.8	5326.4	4465.9	4055.8	3933.8	3923.4	3942.9	3971.4	3971.4
15°	8573.6	7807.9	6159.6	4682.6	3996.1	3852.0	3876.7	3933.8	3987.0	4031.1	4037.6
17.5°	8633.3	7689.7	5643.0	4167.4	3745.6	3784.5	3872.8	3953.2	4007.8	4050.6	4054.5
20°	8676.1	7506.8	5091.5	3774.1	3601.5	3722.2	3832.5	3903.9	3941.6	3984.4	3990.9
22.5°	8654.1	7261.5	4602.2	3492.5	3484.7	3631.4	3736.5	3822.2	3793.6	3752.1	3779.3
25°	8547.6	6924.0	4098.6	3282.3	3361.4	3509.4	3639.2	3582.1	3486.0	3467.9	3478.2
27.5°	8358.1	6493.1	3632.7	3087.6	3218.7	3396.5	3388.7	3331.6	3297.8	3274.5	3288.7
30°	8154.4	6025.9	3225.2	2917.6	3060.3	3207.0	3177.1	3175.8	3142.1	3104.5	3122.6
32.5°	7953.2	5556.1	2902.0	2777.4	2940.9	2960.4	3025.3	3044.8	2978.6	2899.4	2894.2
35°	7778.0	5112.2	2656.7	2650.2	2796.9	2799.5	2894.2	2866.9	2702.1	2620.4	2620.4
37.5°	7646.9	4669.7	2469.8	2536.0	2607.4	2674.9	2722.9	2610.0	2582.7	2537.3	2536.0
40°	7589.8	4280.3	2353.0	2449.0	2473.7	2559.4	2436.1	2480.2	2493.2	2469.8	2469.8
42.5°	7530.1	3941.6	2251.8	2382.8	2379.0	2367.3	2305.0	2362.1	2414.0	2415.3	2411.4
45°	7470.4	3649.5	2162.2	2241.4	2295.9	2170.0	2181.7	2242.7	2315.4	2341.3	2341.3
47.5°	7404.2	3418.5	2080.5	2092.1	2176.5	2092.1	2083.0	2129.8	2215.4	2257.0	2266.0
50°	7258.9	3210.9	1987.0	1961.0	1984.4	2013.0	2020.7	2042.8	2137.6	2203.7	2219.3
52.5°	7057.7	3025.3	1867.6	1840.3	1840.3	1948.1	1984.4	1990.9	2071.4	2150.5	2166.1
55°	6890.3	2907.2	1744.3	1739.1	1733.9	1879.3	1941.6	1952.0	2007.8	2070.1	2077.9
57°	6902.0	2898.1	1649.6	1654.8	1653.5	1809.2	1901.3	1923.4	1952.0	2005.2	2014.3
57.5°	6908.4	2904.6	1628.8	1631.4	1630.1	1789.7	1889.7	1914.3	1936.4	1992.2	2001.3
60°	7005.8	2921.5	1544.4	1515.9	1522.4	1685.9	1823.5	1854.6	1868.9	1942.9	1954.6
62.5°	6861.7	2846.2	1477.0	1408.2	1408.2	1576.9	1731.3	1780.6	1802.7	1902.6	1922.1
65°	6443.8	2634.6	1397.8	1286.2	1299.1	1467.9	1621.0	1701.5	1735.2	1859.8	1880.6
67.5°	5798.8	2389.3	1313.4	1177.1	1190.1	1353.7	1506.8	1593.8	1647.0	1813.1	1830.0
70°	4959.1	2089.5	1199.2	1061.6	1077.2	1229.1	1371.8	1470.5	1549.6	1769.0	1774.2
72.5°	3656.0	1713.2	1039.6	934.5	951.3	1083.7	1235.6	1349.8	1456.2	1658.6	1656.1
75°	2173.9	1339.4	863.1	806.0	817.6	940.9	1112.3	1251.1	1410.8	1615.8	1640.5
77.5°	1318.6	1008.4	703.4	674.9	689.2	815.0	1024.0	1172.0	1391.3	1523.7	1515.9
80°	796.9	720.3	562.0	543.8	558.1	696.9	947.4	1112.3	1216.1	1301.7	1301.7
82.5°	416.6	440.0	412.7	398.4	417.9	565.9	861.8	970.8	1074.6	922.8	861.8
85°	170.0	229.7	250.5	249.2	260.9	392.0	743.7	830.6	693.1	658.0	673.6
87.5°	57.1	97.3	122.0	105.1	110.3	246.6	515.2	401.0	476.3	332.2	315.4
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)