

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: P383414

Luminaire Tested: **GAN-SA7B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383414
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38629.4 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

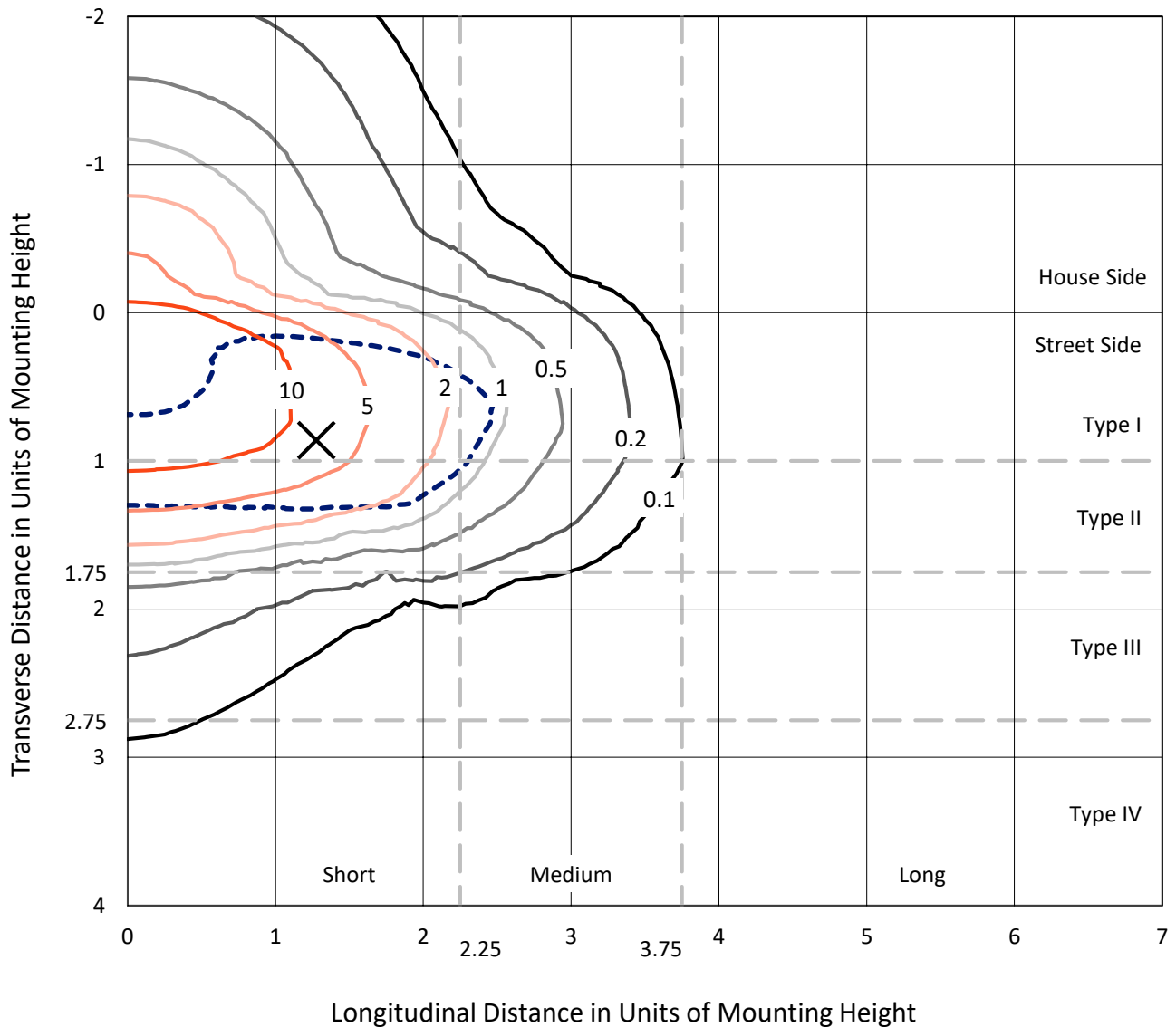
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

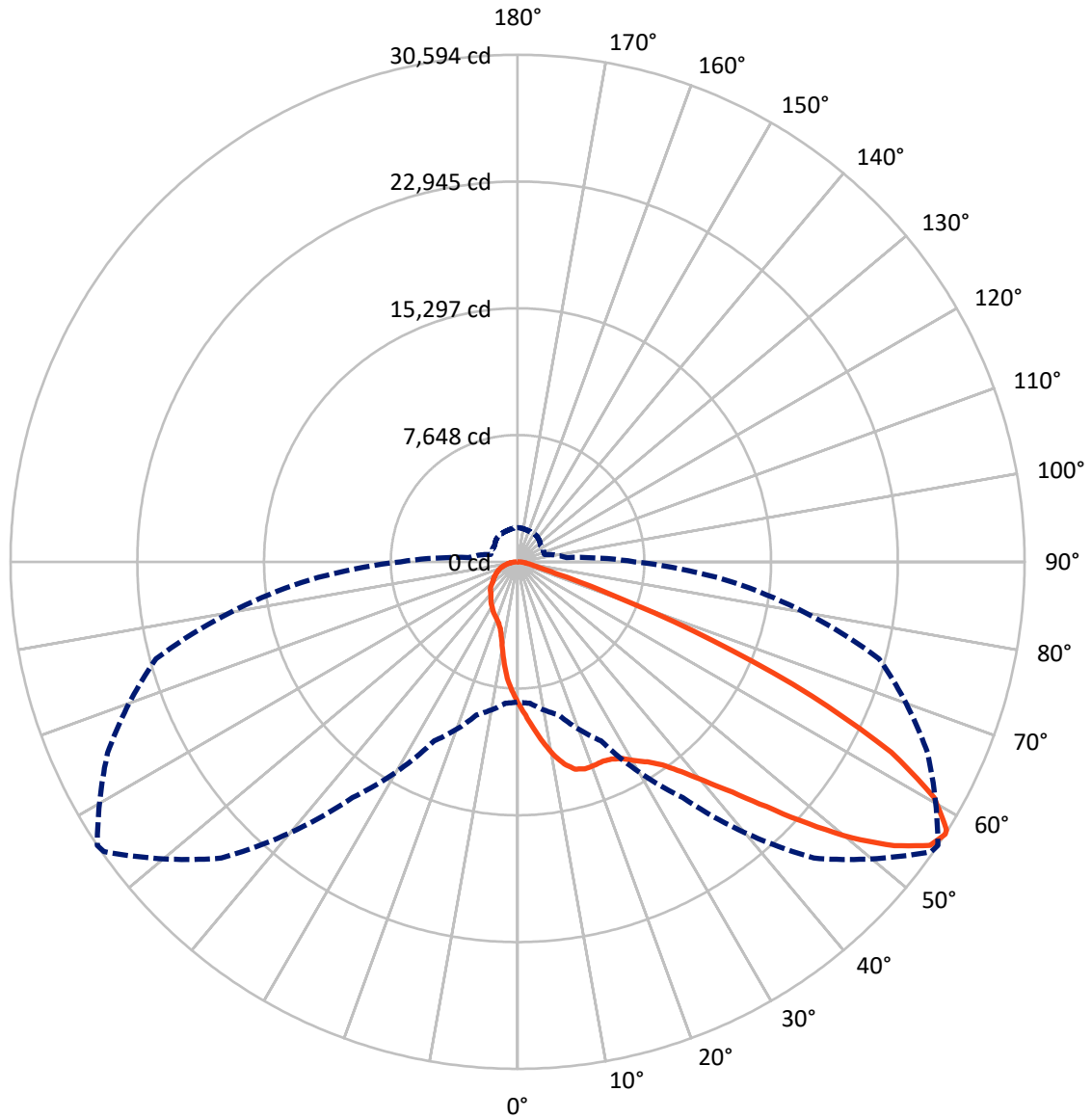
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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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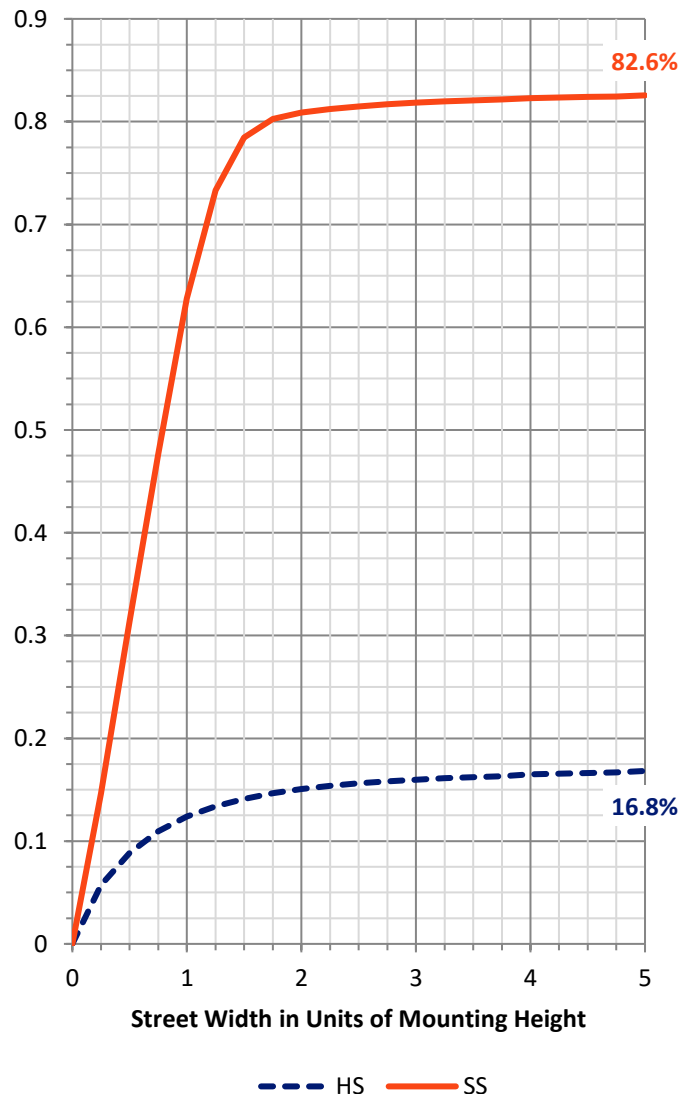
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6658.9	0.0	6658.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	31970.5	0.0	31970.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	38629.4	0.0	38629.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.5	2.1
10°-20°	2314.0	6.0
20°-30°	3769.0	9.8
30°-40°	5634.3	14.6
40°-50°	8546.0	22.1
50°-60°	9578.6	24.8
60°-70°	5657.5	14.6
70°-80°	1853.6	4.8
80°-90°	458.0	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°	38629.4	100.0
0°-180°	38629.4	100.0

Coefficient of Utilization



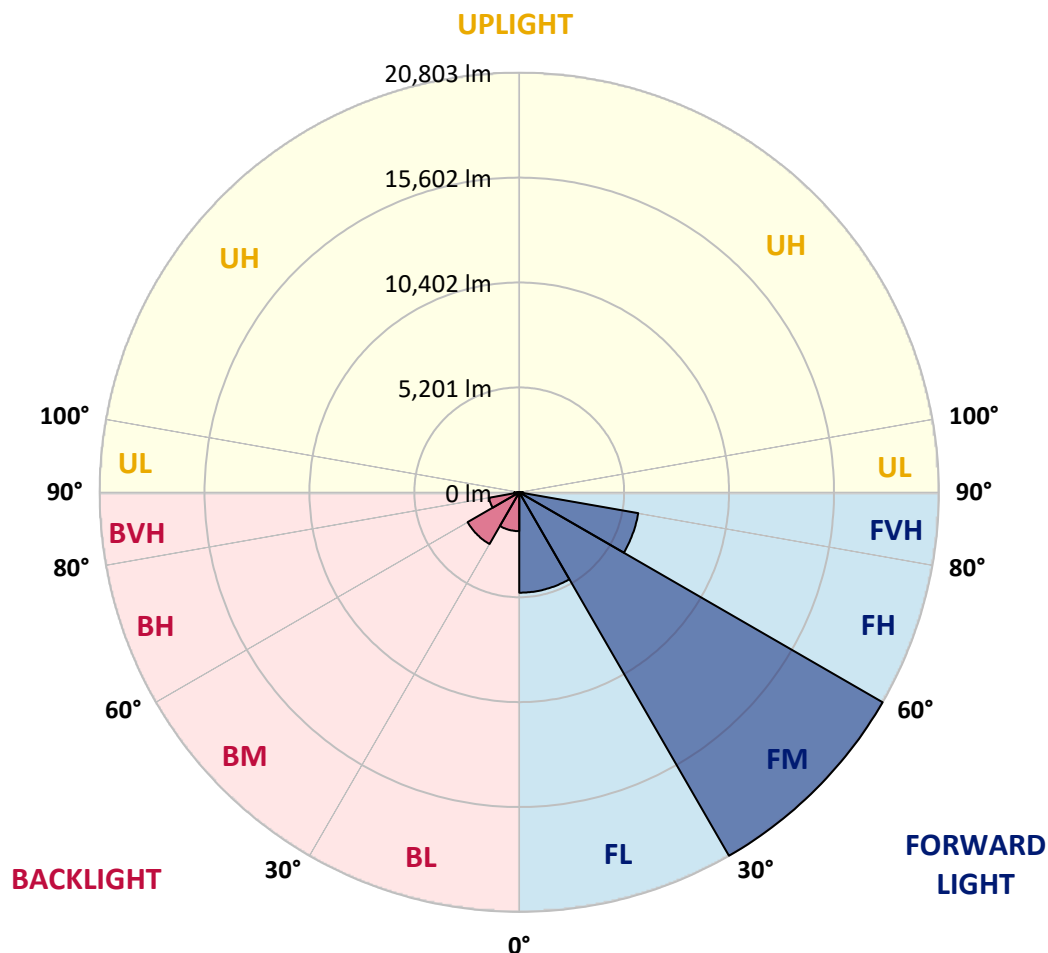
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4976.1	12.9			
FM (30°-60°)	20803.2	53.9			
FH (60°-80°)	5989.6	15.5			G3/7500
FVH (80°-90°)	201.6	0.5			G2/225
BL (0°-30°)	1925.4	5.0	B3/2500		
BM (30°-60°)	2955.7	7.7	B3/5000		
BH (60°-80°)	1521.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	256.3	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°	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0
2.5°	9838.5	9928.8	9888.9	9750.9	9644.7	9494.7	9327.4	9276.9	9100.4	8902.6	8665.0
5°	11395.7	11350.6	11285.5	11070.5	10843.5	10579.3	10159.7	10093.4	9700.5	9253.1	8780.5
7.5°	12282.5	12278.5	12240.1	12113.9	11906.9	11561.7	11055.9	10977.5	10384.1	9664.6	8931.8
10°	12153.8	12144.5	12208.2	12339.7	12402.0	12330.3	11904.2	11825.9	11097.1	10120.0	9107.0
12.5°	11422.3	11427.6	11529.9	11806.0	12181.7	12633.0	12564.0	12525.5	11836.5	10635.0	9319.5
15°	10852.7	10864.7	10945.7	11186.0	11629.3	12448.5	12964.9	12978.1	12552.0	11203.3	9567.6
17.5°	10603.2	10628.4	10665.6	10834.2	11240.4	12080.8	13060.5	13132.2	13178.6	11792.6	9806.7
20°	10682.8	10706.7	10717.4	10824.9	11158.1	11857.8	12994.1	13122.9	13659.2	12347.6	10045.6
22.5°	11040.0	11054.6	11061.2	11089.0	11347.9	11921.5	12950.3	13085.7	14007.0	12845.4	10226.2
25°	11632.0	11621.4	11579.0	11543.1	11717.0	12173.7	13051.2	13180.0	14289.8	13296.8	10344.3
27.5°	12341.0	12327.6	12245.4	12147.1	12246.7	12566.7	13341.9	13444.2	14543.3	13719.0	10404.1
30°	13191.9	13157.4	13002.1	12885.3	12923.7	13156.1	13821.2	13914.1	14935.0	14198.2	10462.5
32.5°	14175.6	14138.5	13914.1	13720.3	13720.3	13914.1	14315.0	14392.0	15266.9	14739.9	10556.8
35°	15407.6	15361.1	15069.1	14743.8	14652.2	14750.5	14988.1	15042.5	15864.3	15422.2	10728.0
37.5°	16860.0	16797.6	16419.2	15983.8	15783.3	15778.0	15949.2	16060.7	16818.8	16318.3	11018.7
40°	18316.3	18272.5	17941.9	17599.4	17206.4	17080.3	17344.5	17379.0	18066.7	17430.8	11390.4
42.5°	19442.1	19434.0	19373.0	19418.1	19015.9	18761.0	18968.1	18996.0	19590.7	18634.9	11786.0
45°	20036.8	20050.1	20346.1	21001.9	21150.6	20964.8	21066.9	21075.0	21332.4	19849.6	12148.5
47.5°	19560.2	19629.2	20378.0	21844.9	23062.3	23679.6	23509.7	23607.9	23021.1	20893.0	12432.5
50°	17702.9	17787.9	19062.4	21469.2	23954.4	26306.8	26217.8	26195.3	24383.2	21657.7	12586.5
52.5°	15402.3	15468.6	16520.1	19516.4	23300.0	27759.2	28575.6	28458.8	25593.9	22229.9	12615.8
55°	11898.8	12002.4	13010.0	15618.7	20652.8	27204.3	30309.4	30204.5	26697.1	22529.9	12581.2
57°	8459.2	8568.0	9569.0	11920.1	17373.7	25283.3	30482.0	30593.5	27293.2	22580.3	12619.8
57.5°	7548.5	7660.0	8651.7	10935.1	16351.5	24588.9	30333.3	30519.2	27400.7	22572.4	12641.0
60°	3800.8	3843.3	4475.2	6104.1	10336.4	19878.9	28393.8	28873.0	27497.6	22182.1	12732.6
62.5°	2363.1	2332.5	2312.6	2811.8	5028.8	13182.6	24391.2	25313.8	25643.1	21236.9	12510.9
65°	2077.6	2020.5	1801.5	1761.6	2221.0	6402.8	18368.1	19516.4	21680.3	19747.4	11982.5
67.5°	1951.5	1895.8	1648.8	1500.2	1501.5	2538.3	11403.7	12696.7	16889.1	17229.0	10735.9
70°	1821.4	1771.0	1539.9	1364.7	1278.5	1405.9	5246.5	6227.6	11009.4	13542.4	8972.9
72.5°	1654.1	1619.6	1400.6	1220.0	1128.4	1052.7	2008.6	2372.4	6373.6	9095.1	6231.6
75°	1478.9	1447.1	1259.8	1087.3	975.8	828.4	1131.1	1218.7	3237.9	4653.1	3068.0
77.5°	1286.4	1267.8	1120.5	961.2	872.2	686.4	800.5	843.0	1388.7	1995.3	1538.6
80°	1023.6	1059.4	979.7	856.3	773.9	549.6	566.8	594.7	808.5	974.4	873.5
82.5°	666.4	728.8	767.3	695.7	637.3	432.8	407.6	419.5	527.1	594.7	379.7
85°	277.4	312.0	504.4	455.3	423.5	316.0	273.5	278.8	326.6	338.5	155.3
87.5°	123.4	131.4	221.7	208.4	179.2	108.9	116.8	127.4	173.9	164.6	59.7
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°	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0	8568.0
2.5°	8576.0	8464.5	8273.4	8062.3	7889.6	7751.6	7612.2	7516.7	7405.1	7345.3	7314.8
5°	8582.6	8363.6	7961.4	7548.5	7179.4	6842.2	6520.9	6274.1	6043.0	5918.2	5883.7
7.5°	8610.5	8281.3	7630.8	6951.1	6295.3	5696.5	5234.6	4945.1	4736.7	4643.8	4617.2
10°	8633.1	8184.4	7221.9	6215.7	5323.5	4716.8	4358.3	4196.4	4124.7	4112.8	4100.9
12.5°	8686.2	8084.8	6791.7	5448.2	4568.1	4148.6	4023.8	4013.2	4033.1	4062.3	4062.3
15°	8769.9	7986.5	6300.6	4789.8	4087.5	3940.2	3965.4	4023.8	4078.2	4123.4	4130.0
17.5°	8830.9	7865.8	5772.2	4262.8	3831.4	3871.1	3961.4	4043.8	4099.5	4143.3	4147.2
20°	8874.7	7678.6	5208.0	3860.5	3684.0	3807.4	3920.2	3993.3	4031.7	4075.6	4082.2
22.5°	8852.1	7427.7	4707.5	3572.5	3564.5	3714.5	3822.0	3909.6	3880.5	3838.0	3865.8
25°	8743.3	7082.5	4192.4	3357.4	3438.3	3589.7	3722.5	3664.1	3565.8	3547.2	3557.9
27.5°	8549.5	6641.7	3715.9	3158.2	3292.4	3474.2	3466.3	3407.8	3373.3	3349.4	3364.0
30°	8341.0	6163.9	3299.0	2984.3	3130.4	3280.4	3249.9	3248.5	3214.0	3175.6	3194.1
32.5°	8135.3	5683.3	2968.4	2840.9	3008.2	3028.2	3094.5	3114.4	3046.7	2965.8	2960.5
35°	7956.1	5229.2	2717.5	2710.9	2860.9	2863.6	2960.5	2932.6	2764.0	2680.3	2680.3
37.5°	7821.9	4776.5	2526.4	2594.1	2667.0	2736.0	2785.2	2669.7	2641.9	2595.4	2594.1
40°	7763.5	4378.3	2406.8	2505.1	2530.4	2617.9	2491.8	2537.0	2550.2	2526.4	2526.4
42.5°	7702.5	4031.7	2303.3	2437.4	2433.4	2421.5	2357.7	2416.2	2469.3	2470.6	2466.6
45°	7641.4	3733.1	2211.7	2292.7	2348.4	2219.7	2231.6	2294.0	2368.4	2394.9	2394.9
47.5°	7573.7	3496.8	2128.0	2140.0	2226.3	2140.0	2130.7	2178.5	2266.2	2308.7	2317.9
50°	7425.0	3284.4	2032.5	2005.9	2029.8	2059.0	2067.0	2089.6	2186.5	2254.2	2270.1
52.5°	7219.2	3094.5	1910.3	1882.5	1882.5	1992.7	2029.8	2036.5	2118.8	2199.8	2215.7
55°	7048.0	2973.7	1784.2	1778.9	1773.6	1922.3	1986.1	1996.7	2053.7	2117.4	2125.4
57°	7059.9	2964.5	1687.3	1692.6	1691.3	1850.6	1944.9	1967.4	1996.7	2051.1	2060.4
57.5°	7066.5	2971.1	1666.1	1668.8	1667.4	1830.7	1933.0	1958.1	1980.7	2037.8	2047.1
60°	7166.1	2988.3	1579.8	1550.6	1557.3	1724.5	1865.2	1897.1	1911.7	1987.4	1999.3
62.5°	7018.7	2911.4	1510.8	1440.4	1440.4	1613.0	1771.0	1821.4	1844.0	1946.2	1966.1
65°	6591.4	2695.0	1429.7	1315.6	1328.9	1501.5	1658.2	1740.4	1775.0	1902.4	1923.6
67.5°	5931.5	2444.0	1343.5	1204.1	1217.3	1384.7	1541.2	1630.2	1684.7	1854.6	1871.9
70°	5072.6	2137.3	1226.7	1085.9	1101.8	1257.2	1403.2	1504.1	1585.1	1809.4	1814.7
72.5°	3739.7	1752.3	1063.4	955.9	973.1	1108.5	1263.8	1380.6	1489.5	1696.6	1693.9
75°	2223.7	1370.0	882.8	824.4	836.3	962.5	1137.7	1279.8	1443.1	1652.8	1678.0
77.5°	1348.8	1031.5	719.5	690.4	704.9	833.7	1047.4	1198.8	1423.1	1558.6	1550.6
80°	815.1	736.8	574.9	556.2	570.9	712.9	969.1	1137.7	1243.9	1331.6	1331.6
82.5°	426.2	450.0	422.2	407.6	427.5	578.8	881.5	993.0	1099.2	943.9	881.5
85°	173.9	234.9	256.2	254.9	266.8	400.9	760.7	849.7	708.9	673.0	689.0
87.5°	58.4	99.6	124.8	107.5	112.8	252.3	527.1	410.3	487.2	339.8	322.6
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)