

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: P383090

Luminaire Tested: **GAN-SA4B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15277.4 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

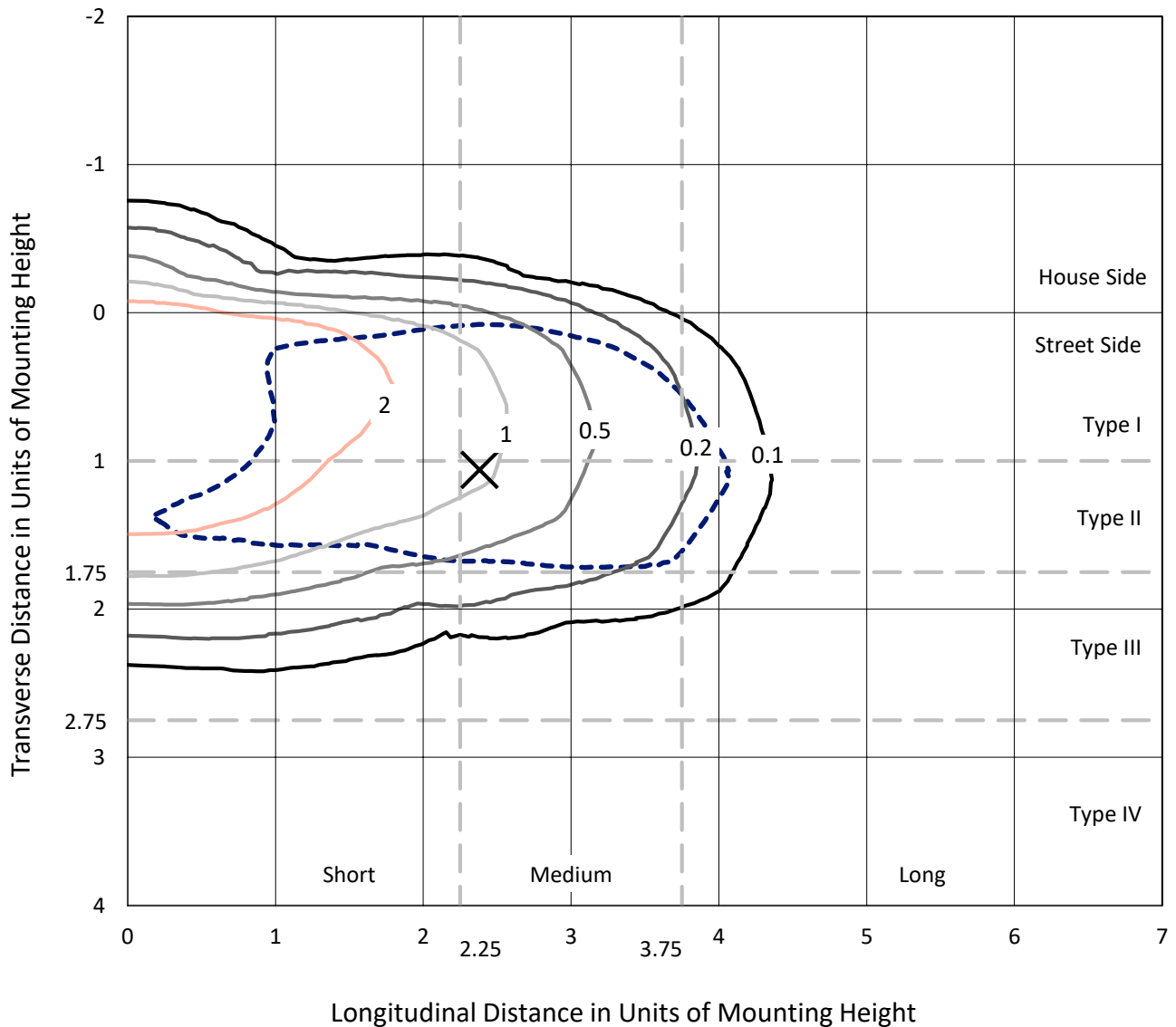
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

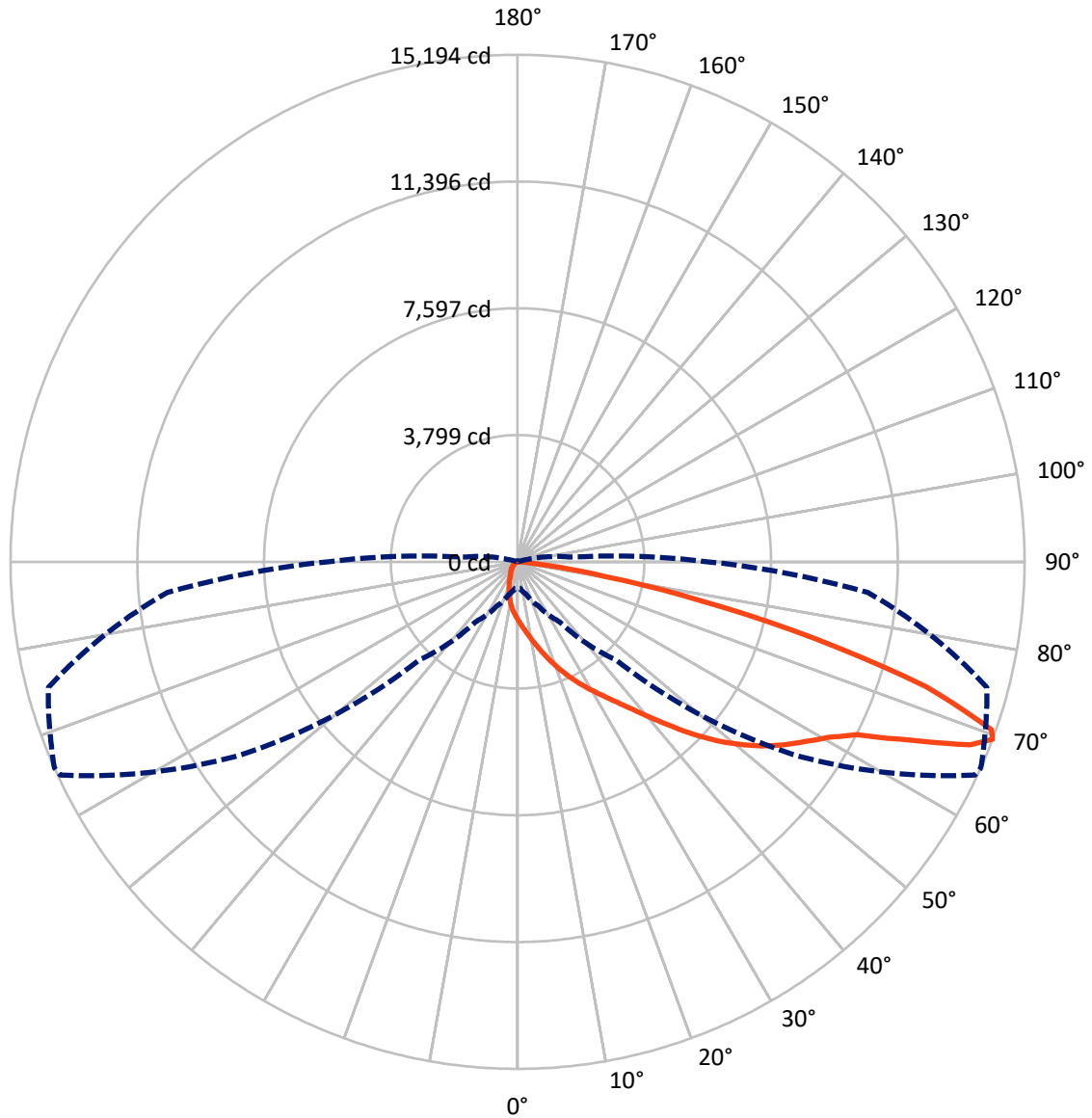
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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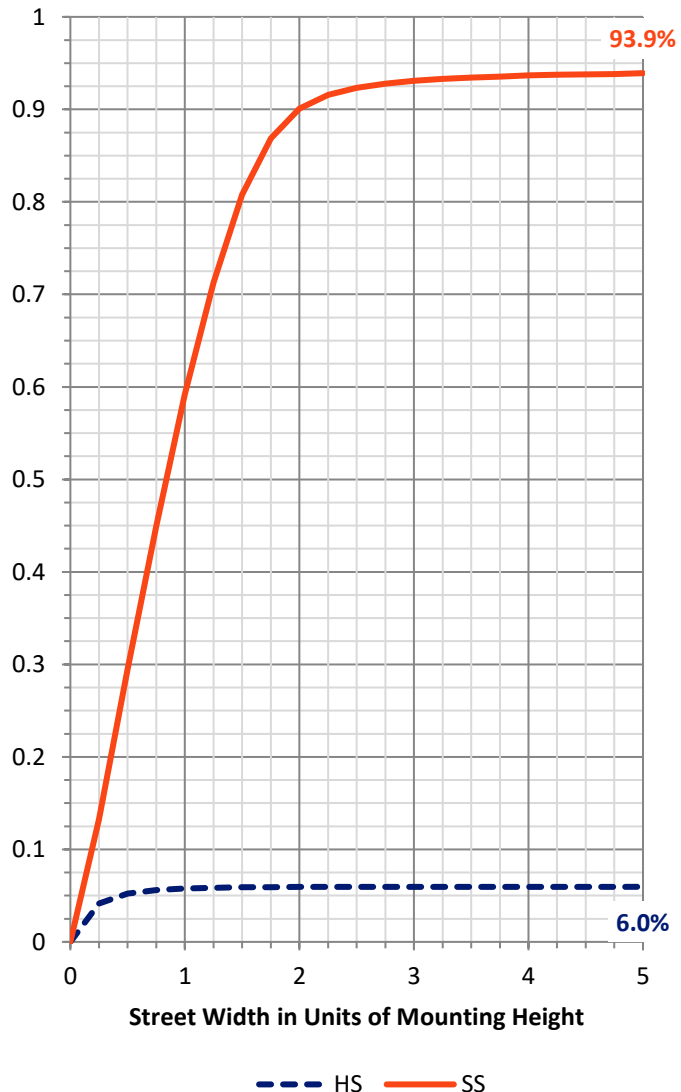
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	916.4	0.0	916.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	14360.9	0.0	14360.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	15277.4	0.0	15277.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.1
10°-20°	500.2	3.3
20°-30°	871.0	5.7
30°-40°	1528.2	10.0
40°-50°	2557.9	16.7
50°-60°	3759.9	24.6
60°-70°	3860.4	25.3
70°-80°	1905.8	12.5
80°-90°	126.0	0.8
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°	15277.4	100.0
0°-180°	15277.4	100.0

Coefficient of Utilization



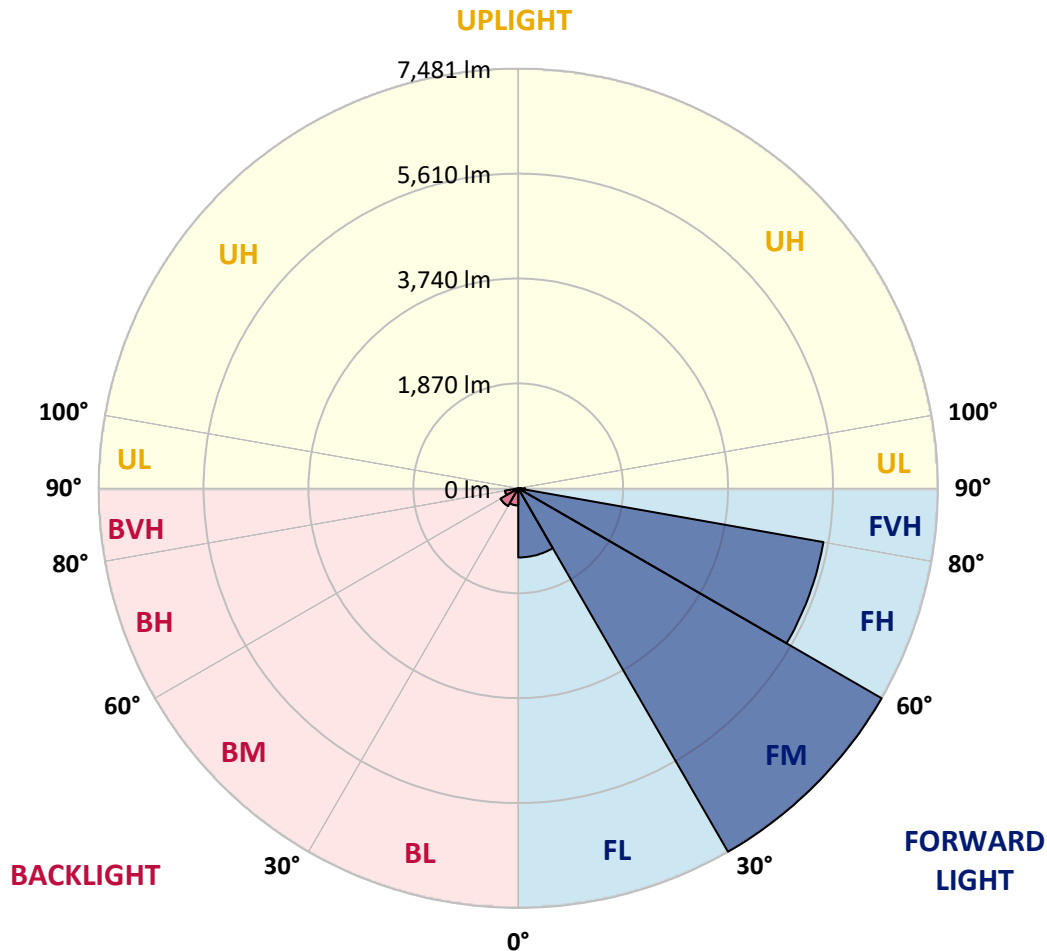
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.7	8.1			
FM (30°-60°)	7480.5	49.0			
FH (60°-80°)	5524.7	36.2			G3/7500
FVH (80°-90°)	123.0	0.8			G2/225
BL (0°-30°)	306.5	2.0	B1/500		
BM (30°-60°)	365.4	2.4	B1/1000		
BH (60°-80°)	241.5	1.6	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6
2.5°	2046.2	2037.6	2033.9	2018.0	1990.4	1969.4	1928.8	1881.5	1872.9	1827.1	1771.2
5°	2311.8	2304.6	2299.5	2277.1	2248.8	2195.8	2121.8	2033.9	2017.3	1930.2	1818.5
7.5°	2496.9	2510.0	2510.0	2495.4	2459.9	2420.0	2329.2	2209.5	2188.5	2055.0	1881.5
10°	2605.0	2621.0	2633.3	2645.7	2640.6	2624.6	2539.0	2404.0	2378.6	2201.5	1954.9
12.5°	2615.1	2631.2	2666.0	2717.5	2767.5	2803.9	2750.1	2619.5	2590.5	2371.3	2042.0
15°	2558.6	2575.3	2628.9	2729.1	2850.3	2956.3	2973.7	2858.3	2828.6	2573.8	2150.8
17.5°	2459.9	2470.7	2547.7	2686.3	2876.4	3070.8	3176.1	3114.4	3086.9	2805.3	2272.0
20°	2386.6	2394.5	2462.1	2610.8	2860.4	3142.7	3367.6	3386.5	3357.5	3053.4	2403.3
22.5°	2512.1	2526.6	2528.9	2599.2	2816.9	3178.3	3536.0	3654.3	3632.5	3316.9	2532.4
25°	2855.4	2872.1	2816.9	2773.4	2853.9	3194.3	3680.5	3928.6	3911.2	3600.6	2662.4
27.5°	3308.9	3326.3	3255.2	3125.3	3047.7	3254.5	3808.8	4207.2	4206.5	3901.0	2802.4
30°	3754.4	3771.8	3699.3	3569.4	3390.8	3425.0	3919.9	4498.9	4503.3	4210.9	2951.1
32.5°	4221.8	4243.5	4168.8	4001.8	3815.3	3719.6	4075.9	4792.1	4816.8	4570.0	3118.7
35°	4752.8	4755.8	4650.6	4475.7	4260.9	4113.6	4326.2	5120.8	5179.6	5014.8	3331.4
37.5°	5273.9	5294.9	5208.6	4932.8	4735.5	4568.6	4698.4	5531.5	5614.9	5558.4	3609.3
40°	5659.9	5704.2	5691.8	5394.3	5207.2	5088.1	5160.7	6019.8	6125.8	6191.1	3959.7
42.5°	5902.3	5935.6	5992.3	5813.0	5643.2	5662.9	5706.4	6588.7	6719.3	6912.4	4362.5
45°	6180.2	6196.2	6243.3	6164.2	6049.6	6247.0	6285.4	7229.5	7366.6	7688.1	4809.5
47.5°	6519.8	6557.5	6570.6	6498.0	6445.8	6763.6	6843.4	7812.1	8004.4	8518.9	5282.6
50°	6952.3	6962.5	6984.9	6937.8	6885.5	7207.7	7344.1	8423.9	8598.7	9352.6	5749.1
52.5°	7375.3	7411.6	7490.0	7460.2	7439.2	7585.8	7790.3	8975.4	9170.5	10047.9	6215.0
55°	7497.2	7528.4	7799.1	7984.1	8155.4	8051.6	8217.1	9469.5	9680.6	10669.0	6663.5
57.5°	7010.4	7073.4	7542.2	8024.1	8734.5	8775.8	8803.4	9976.7	10166.1	11144.9	7130.1
60°	5779.7	5792.0	6561.2	7387.6	8638.6	9407.8	9659.6	10521.6	10680.6	11588.4	7688.8
62.5°	3676.1	3801.6	4645.5	5812.3	7625.6	9316.4	10695.1	11346.0	11404.0	12120.3	8489.9
65°	1750.9	1832.3	2440.3	3591.1	5523.5	8145.9	11409.9	12837.2	12863.3	13174.6	9560.2
67.5°	969.5	1008.6	1298.1	1933.1	3229.0	5760.8	11121.0	14603.3	14628.0	14251.4	10499.2
69°	758.3	791.6	1019.5	1457.0	2189.2	4140.4	10063.8	15120.7	15194.0	14559.8	10532.5
70°	643.6	676.3	878.0	1230.7	1760.3	3199.3	8957.9	14992.3	15069.9	14530.7	10283.6
72.5°	394.0	412.9	584.8	866.4	1179.9	1609.4	5524.3	12679.0	12810.3	13329.1	8838.2
75°	265.6	275.7	365.7	598.0	843.9	828.7	2869.9	8936.9	9221.3	10368.6	6527.8
77.5°	190.1	199.5	245.3	386.8	591.3	547.1	1299.6	5554.0	5614.9	6218.6	3559.9
80°	108.2	116.8	173.5	230.0	401.3	365.0	516.6	2653.0	2683.4	2666.7	1188.6
82.5°	56.6	63.8	95.0	151.7	257.6	238.8	214.8	888.1	892.5	742.4	260.5
85°	10.9	13.0	47.1	103.8	132.7	103.8	87.8	208.3	212.6	187.9	64.6
87.5°	0.0	0.7	18.9	23.2	26.1	26.8	28.3	40.6	43.5	58.8	17.4
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°	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6	1738.6
2.5°	1746.6	1720.5	1670.5	1612.3	1567.3	1523.1	1488.2	1452.0	1439.0	1432.4	1431.7
5°	1764.0	1708.8	1602.9	1494.1	1404.9	1320.7	1260.4	1203.1	1176.3	1163.9	1158.8
7.5°	1793.0	1704.5	1534.0	1367.8	1239.4	1134.2	1050.7	988.3	957.1	944.0	939.0
10°	1827.1	1698.7	1453.4	1234.3	1070.3	961.5	878.7	817.1	783.0	768.4	761.2
12.5°	1867.0	1688.5	1360.5	1099.3	925.9	817.1	716.9	640.7	601.6	584.8	576.9
15°	1916.4	1678.4	1263.4	972.3	798.9	666.1	556.6	505.1	497.1	494.2	494.8
17.5°	1965.0	1662.4	1157.4	846.8	665.4	520.3	464.4	461.5	463.0	463.0	463.0
20°	2008.5	1626.1	1042.0	739.5	538.4	439.0	427.4	422.4	418.7	415.7	412.1
22.5°	2042.7	1577.5	931.0	632.7	439.7	402.0	383.9	367.9	354.8	346.2	341.8
25°	2065.9	1512.9	829.4	530.4	395.4	365.7	333.0	306.2	285.9	273.6	268.5
27.5°	2083.3	1443.2	738.7	444.1	365.0	323.6	280.9	248.9	227.9	217.0	212.6
30°	2095.6	1364.2	658.9	390.4	330.9	279.4	233.6	202.4	187.2	181.4	178.5
32.5°	2107.3	1276.4	583.4	365.0	298.9	238.8	195.9	172.0	162.6	155.3	153.1
35°	2136.2	1195.1	511.6	338.2	266.3	203.9	168.3	150.9	141.5	137.1	135.7
37.5°	2205.2	1134.9	442.7	310.6	233.6	176.3	147.3	135.0	126.2	121.9	120.4
40°	2316.2	1104.4	384.5	280.9	201.7	155.3	133.5	121.9	112.4	105.9	104.5
42.5°	2479.5	1108.7	343.9	251.1	176.3	138.6	120.4	106.7	96.5	90.7	89.2
45°	2677.5	1140.7	315.6	222.1	155.3	125.6	105.9	91.4	82.0	76.9	75.5
47.5°	2892.4	1192.2	292.4	195.9	138.6	113.2	91.4	76.2	68.2	63.8	63.2
50°	3118.7	1242.3	268.5	170.6	124.1	100.9	76.9	63.2	56.6	53.0	51.5
52.5°	3348.1	1300.3	246.7	147.3	111.8	86.4	63.8	51.5	46.5	43.5	42.1
55°	3594.7	1343.9	225.7	129.2	99.4	73.3	53.0	42.9	38.5	34.8	34.1
57.5°	3885.0	1411.4	203.9	111.8	84.9	60.9	43.5	34.1	30.5	26.8	26.1
60°	4276.9	1490.5	180.7	98.7	69.7	50.0	35.6	27.6	23.2	20.3	19.6
62.5°	4793.6	1578.2	151.7	86.4	56.6	40.6	28.3	21.8	16.7	13.0	13.0
65°	5448.8	1721.2	124.1	72.6	46.5	33.3	21.8	15.9	9.4	5.8	5.8
67.5°	5831.2	1745.9	100.1	59.5	37.7	28.3	18.2	10.9	2.9	0.7	0.0
69°	5708.5	1602.9	84.9	50.8	32.7	26.8	16.7	8.0	1.5	0.0	0.0
70°	5477.8	1465.8	74.7	45.0	29.7	25.4	15.9	5.8	1.5	0.0	0.0
72.5°	4526.5	1043.4	56.6	33.3	21.8	22.5	14.5	3.6	1.5	0.0	0.0
75°	3297.3	634.2	40.6	23.2	13.8	16.7	10.2	1.5	0.7	0.0	0.0
77.5°	1834.4	298.9	25.4	13.0	8.7	10.2	5.1	0.0	0.0	0.0	0.0
80°	595.7	81.2	11.6	7.3	5.1	5.8	2.1	0.0	0.0	0.0	0.0
82.5°	110.3	23.2	6.5	3.6	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	23.9	9.4	3.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)