

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: P383062

Luminaire Tested: **GAN-SA4A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383062
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-SA4A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA 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: 12457.6 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

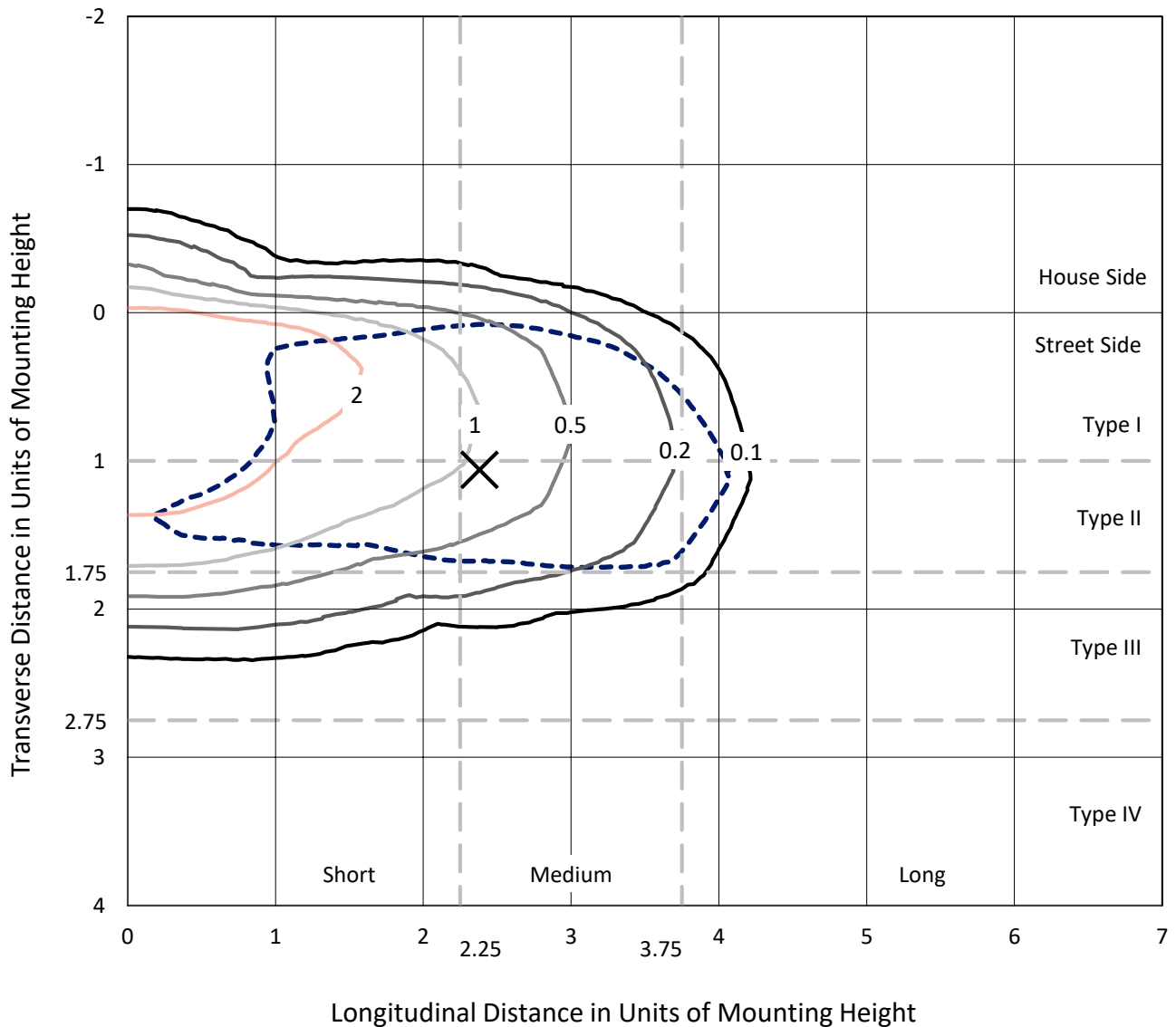
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

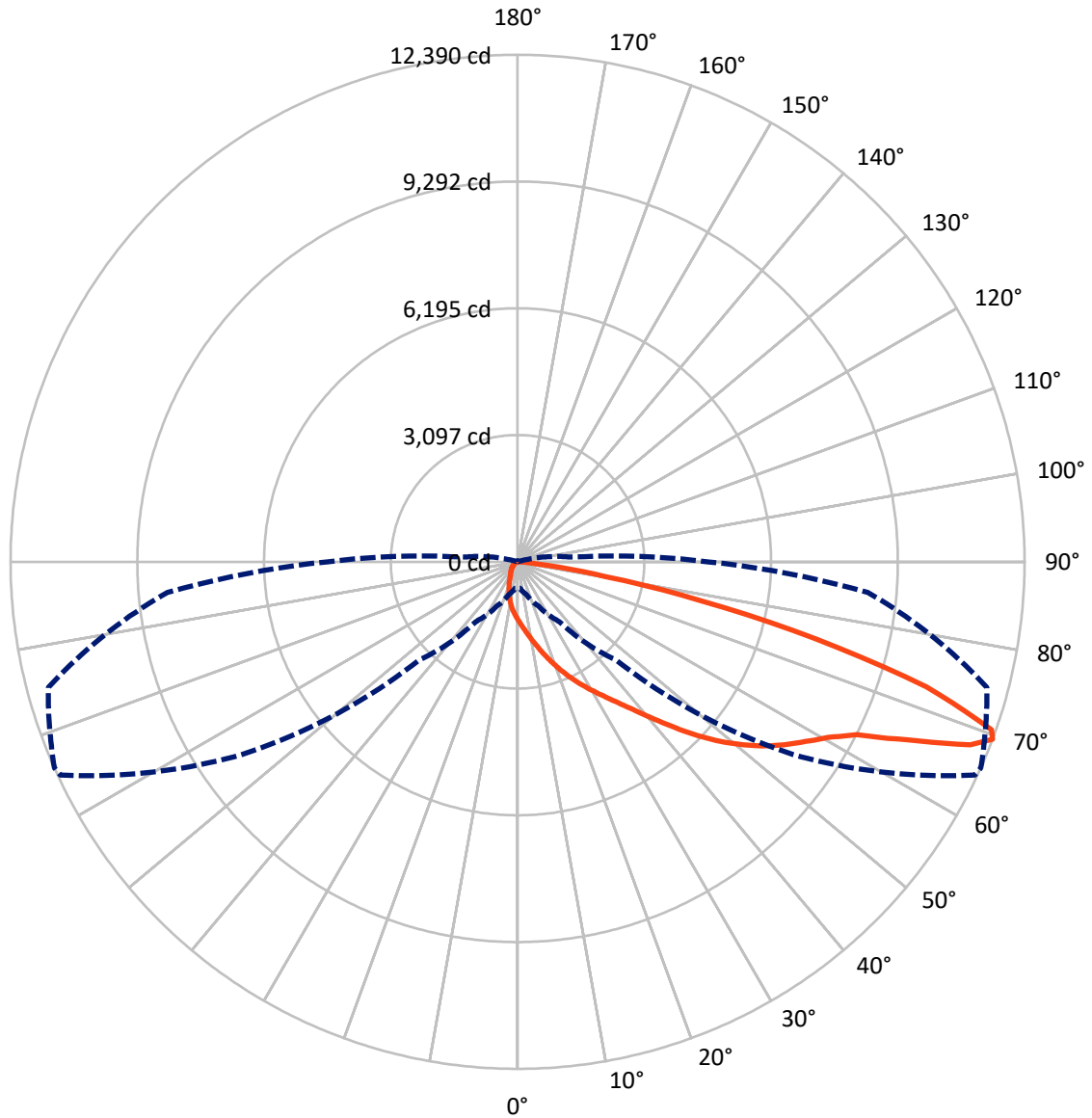
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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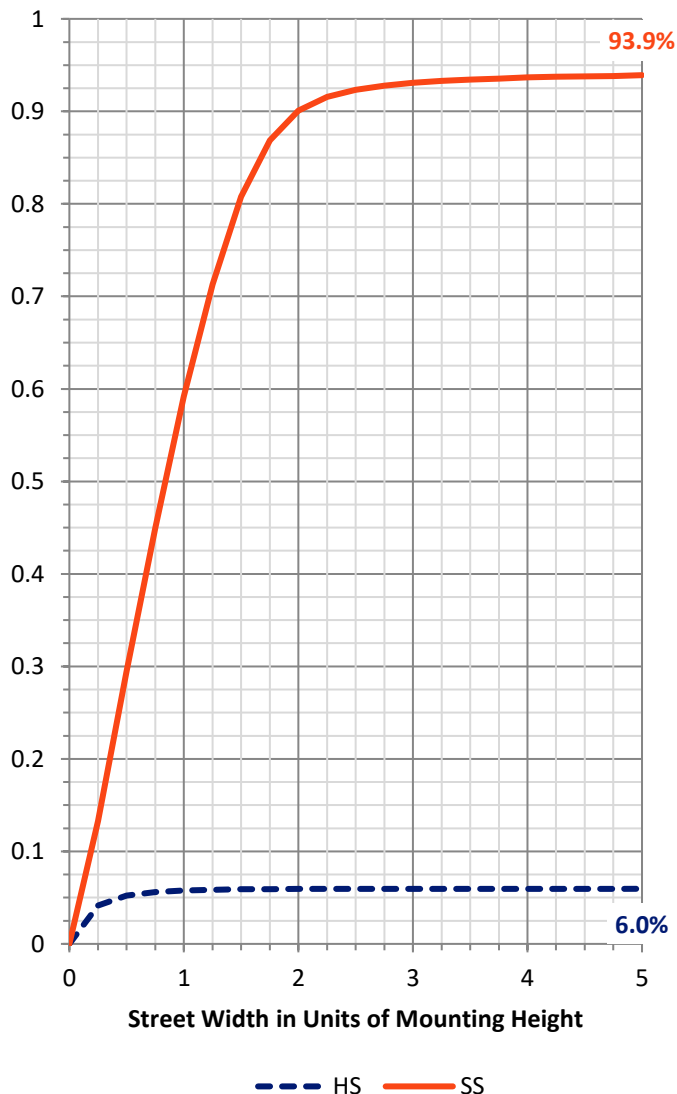
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.3	0.0	747.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	11710.3	0.0	11710.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	12457.6	0.0	12457.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	1.1
10°-20°	407.9	3.3
20°-30°	710.2	5.7
30°-40°	1246.1	10.0
40°-50°	2085.8	16.7
50°-60°	3065.9	24.6
60°-70°	3147.9	25.3
70°-80°	1554.0	12.5
80°-90°	102.8	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°	12457.6	100.0
0°-180°	12457.6	100.0

Coefficient of Utilization

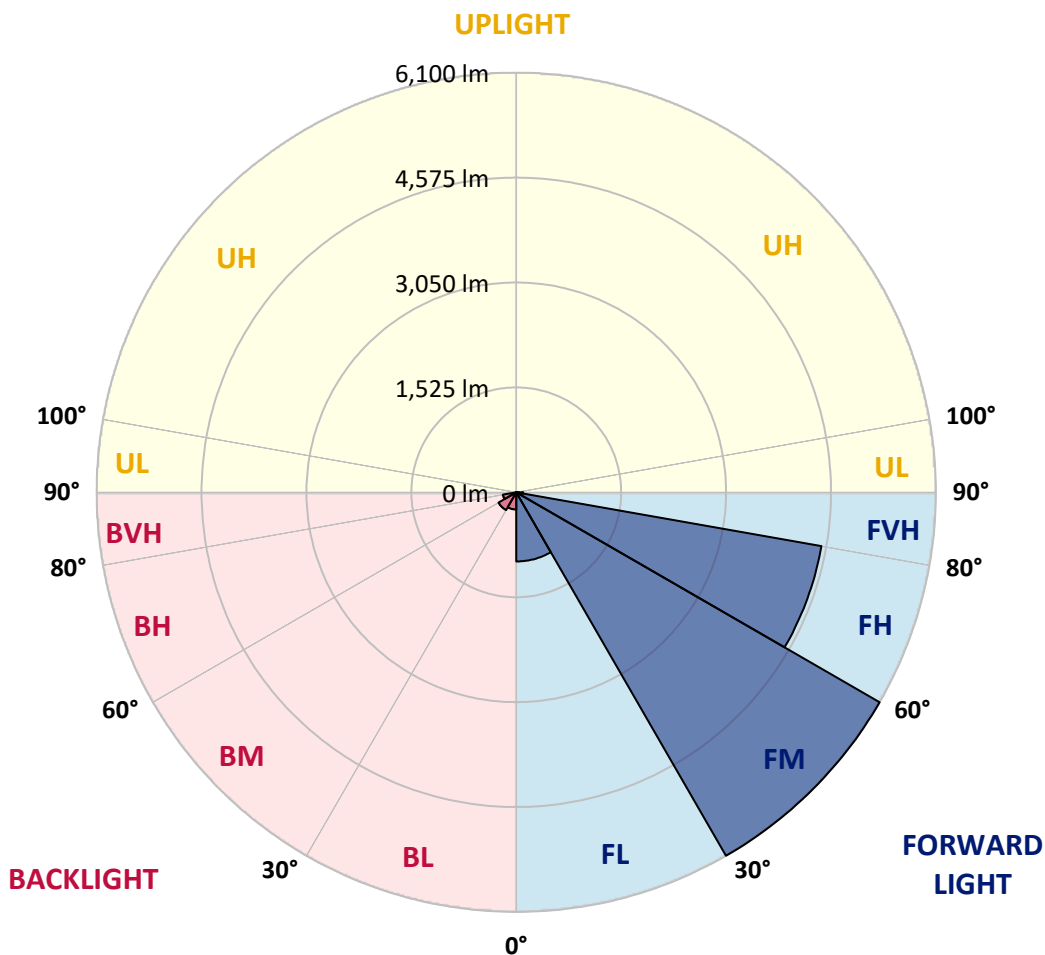


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.2	8.1			
FM (30°-60°)	6099.8	49.0			
FH (60°-80°)	4505.0	36.2			G2/5000
FVH (80°-90°)	100.3	0.8			G2/225
BL (0°-30°)	249.9	2.0	B1/500		
BM (30°-60°)	297.9	2.4	B1/1000		
BH (60°-80°)	196.9	1.6	B1/500		G1/500
BVH (80°-90°)	2.5	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1668.6	1661.5	1658.5	1645.5	1623.0	1605.9	1572.7	1534.3	1527.2	1489.9	1444.4
5°	1885.2	1879.2	1875.1	1856.8	1833.7	1790.5	1730.2	1658.5	1644.9	1573.9	1482.8
7.5°	2036.1	2046.7	2046.7	2034.9	2005.9	1973.3	1899.3	1801.7	1784.6	1675.7	1534.3
10°	2124.2	2137.2	2147.3	2157.4	2153.2	2140.1	2070.4	1960.3	1939.6	1795.2	1594.1
12.5°	2132.5	2145.5	2173.9	2215.9	2256.8	2286.3	2242.5	2136.0	2112.4	1933.7	1665.0
15°	2086.3	2100.0	2143.8	2225.4	2324.2	2410.6	2424.8	2330.7	2306.4	2098.8	1753.8
17.5°	2005.9	2014.8	2077.4	2190.4	2345.5	2504.1	2589.9	2539.6	2517.1	2287.5	1852.6
20°	1946.1	1952.6	2007.7	2129.0	2332.5	2562.7	2746.1	2761.5	2737.8	2489.8	1959.7
22.5°	2048.5	2060.3	2062.1	2119.5	2297.0	2591.7	2883.3	2979.8	2962.0	2704.7	2065.1
25°	2328.3	2341.9	2297.0	2261.5	2327.2	2604.7	3001.1	3203.5	3189.2	2936.1	2171.0
27.5°	2698.1	2712.4	2654.4	2548.4	2485.2	2653.8	3105.9	3430.7	3430.1	3181.0	2285.2
30°	3061.4	3075.7	3016.4	2910.5	2765.0	2792.8	3196.3	3668.5	3672.1	3433.6	2406.5
32.5°	3442.5	3460.2	3399.3	3263.2	3111.2	3033.0	3323.6	3907.6	3927.7	3726.6	2543.1
35°	3875.6	3878.0	3792.2	3649.6	3474.5	3354.3	3527.7	4175.7	4223.5	4089.2	2716.5
37.5°	4300.5	4317.6	4247.2	4022.4	3861.5	3725.4	3831.3	4510.6	4578.6	4532.4	2943.1
40°	4615.3	4651.3	4641.2	4398.7	4246.0	4149.0	4208.2	4908.8	4995.1	5048.4	3228.9
42.5°	4812.9	4840.1	4886.2	4740.1	4601.7	4617.6	4653.2	5372.6	5479.2	5636.5	3557.3
45°	5039.5	5052.5	5091.0	5026.5	4933.0	5094.0	5125.3	5895.1	6006.9	6269.0	3921.8
47.5°	5316.4	5347.2	5357.9	5298.6	5256.1	5515.2	5580.3	6370.2	6527.1	6946.6	4307.6
50°	5669.1	5677.3	5695.7	5657.3	5614.6	5877.3	5988.6	6869.0	7011.7	7626.4	4688.0
52.5°	6014.1	6043.6	6107.5	6083.3	6066.1	6185.7	6352.5	7318.7	7477.9	8193.2	5067.9
55°	6113.5	6138.9	6359.6	6510.5	6650.1	6565.5	6700.4	7721.7	7893.8	8699.7	5433.6
57.5°	5716.4	5767.9	6150.2	6543.0	7122.3	7156.1	7178.5	8135.3	8289.7	9087.9	5814.1
60°	4712.9	4722.9	5350.2	6024.1	7044.2	7671.4	7876.7	8579.6	8709.2	9449.4	6269.7
62.5°	2997.5	3099.9	3788.0	4739.5	6218.2	7596.9	8721.1	9251.9	9299.2	9883.2	6922.9
65°	1427.8	1494.0	1989.9	2928.3	4504.0	6642.4	9303.9	10467.8	10489.0	10742.9	7795.7
67.5°	790.5	822.5	1058.5	1576.3	2633.0	4697.5	9068.4	11908.0	11928.1	11621.0	8561.3
69°	618.4	645.6	831.3	1188.1	1785.1	3376.2	8206.3	12329.9	12389.6	11872.5	8588.5
70°	524.8	551.5	716.0	1003.6	1435.4	2608.8	7304.5	12225.1	12288.4	11848.8	8385.6
72.5°	321.3	336.7	477.0	706.5	962.1	1312.4	4504.6	10338.8	10445.9	10868.9	7206.9
75°	216.6	224.9	298.2	487.6	688.1	675.7	2340.1	7287.4	7519.4	8454.8	5323.0
77.5°	155.0	162.7	200.0	315.4	482.3	446.1	1059.7	4528.9	4578.6	5070.9	2902.9
80°	88.1	95.3	141.4	187.6	327.3	297.6	421.2	2163.2	2188.1	2174.5	969.2
82.5°	46.1	52.1	77.5	123.7	210.1	194.7	175.1	724.3	727.8	605.3	212.4
85°	8.8	10.6	38.5	84.6	108.2	84.6	71.6	169.8	173.4	153.2	52.6
87.5°	0.0	0.6	15.4	18.9	21.3	21.9	23.1	33.2	35.5	47.9	14.2
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°	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7	1417.7
2.5°	1424.2	1402.9	1362.1	1314.8	1278.1	1241.9	1213.6	1184.0	1173.4	1168.0	1167.4
5°	1438.4	1393.4	1307.1	1218.3	1145.5	1076.9	1027.8	981.0	959.1	949.1	945.0
7.5°	1462.1	1389.9	1250.9	1115.3	1010.6	924.8	856.7	805.9	780.5	769.8	765.6
10°	1489.9	1385.2	1185.2	1006.4	872.8	784.0	716.5	666.2	638.5	626.7	620.7
12.5°	1522.4	1376.9	1109.5	896.4	755.0	666.2	584.6	522.5	490.6	477.0	470.4
15°	1562.7	1368.6	1030.1	792.8	651.4	543.2	453.8	411.8	405.3	403.0	403.5
17.5°	1602.4	1355.6	943.8	690.6	542.6	424.2	378.7	376.3	377.5	377.5	377.5
20°	1637.8	1326.0	849.7	602.9	439.0	358.0	348.5	344.4	341.4	339.1	336.1
22.5°	1665.6	1286.4	759.1	516.0	358.6	327.8	313.0	300.0	289.3	282.3	278.7
25°	1684.6	1233.6	676.3	432.5	322.5	298.2	271.5	249.7	233.2	223.1	218.9
27.5°	1698.8	1176.9	602.3	362.1	297.6	263.9	229.0	203.0	185.8	176.9	173.4
30°	1708.8	1112.4	537.2	318.3	269.8	227.8	190.5	165.1	152.7	147.9	145.6
32.5°	1718.3	1040.8	475.7	297.6	243.8	194.7	159.8	140.2	132.6	126.6	124.8
35°	1742.0	974.5	417.1	275.7	217.1	166.3	137.3	123.1	115.4	111.8	110.7
37.5°	1798.2	925.4	361.0	253.3	190.5	143.7	120.1	110.0	102.9	99.4	98.2
40°	1888.7	900.5	313.6	229.0	164.5	126.6	108.9	99.4	91.8	86.4	85.2
42.5°	2021.8	904.2	280.5	204.8	143.7	113.0	98.2	87.0	78.7	74.0	72.8
45°	2183.4	930.2	257.4	181.1	126.6	102.4	86.4	74.5	66.9	62.7	61.6
47.5°	2358.5	972.2	238.5	159.8	113.0	92.3	74.5	62.1	55.6	52.1	51.5
50°	2543.1	1013.0	218.9	139.1	101.2	82.3	62.7	51.5	46.1	43.2	42.0
52.5°	2730.1	1060.3	201.2	120.1	91.1	70.4	52.1	42.0	37.9	35.5	34.3
55°	2931.3	1095.9	184.0	105.4	81.0	59.8	43.2	34.9	31.4	28.4	27.9
57.5°	3168.0	1150.8	166.3	91.1	69.2	49.7	35.5	27.9	24.9	21.9	21.3
60°	3487.4	1215.4	147.4	80.5	56.8	40.8	29.0	22.5	18.9	16.6	15.9
62.5°	3908.8	1286.9	123.7	70.4	46.1	33.2	23.1	17.8	13.6	10.6	10.6
65°	4443.1	1403.5	101.2	59.2	37.9	27.2	17.8	13.0	7.7	4.8	4.8
67.5°	4754.9	1423.6	81.7	48.5	30.7	23.1	14.8	8.8	2.3	0.6	0.0
69°	4654.9	1307.1	69.2	41.5	26.6	21.9	13.6	6.5	1.2	0.0	0.0
70°	4466.8	1195.3	60.9	36.7	24.2	20.7	13.0	4.8	1.2	0.0	0.0
72.5°	3691.1	850.9	46.1	27.2	17.8	18.4	11.8	3.0	1.2	0.0	0.0
75°	2688.7	517.1	33.2	18.9	11.3	13.6	8.3	1.2	0.6	0.0	0.0
77.5°	1495.8	243.8	20.7	10.6	7.1	8.3	4.1	0.0	0.0	0.0	0.0
80°	485.8	66.2	9.5	6.0	4.1	4.8	1.8	0.0	0.0	0.0	0.0
82.5°	89.9	18.9	5.3	3.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	19.6	7.7	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.3	0.6	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)