

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: P382897

Luminaire Tested: **GAN-SA2C-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14044.9 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

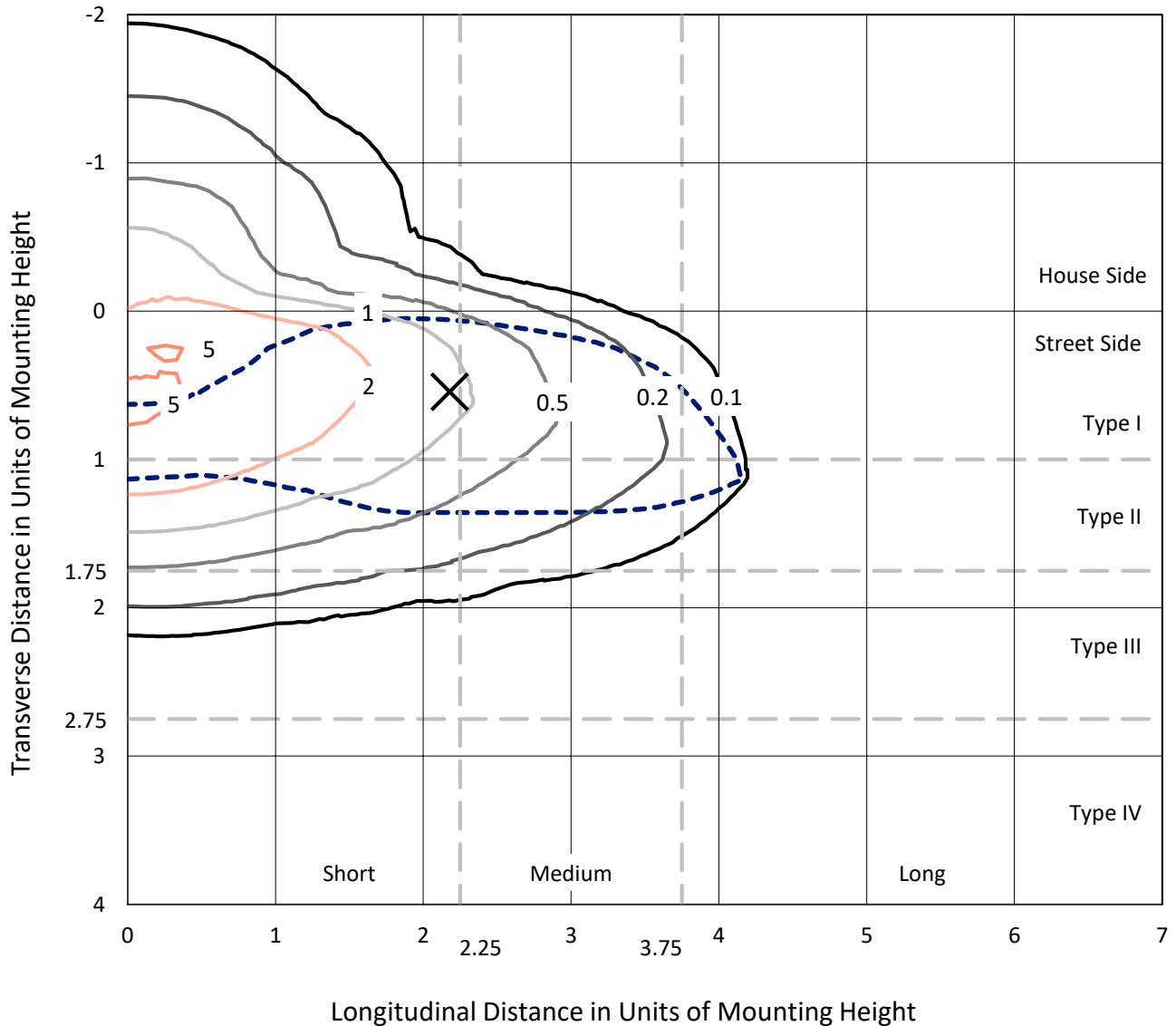




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Iso-Footcandle Lines of Horizontal Illumination

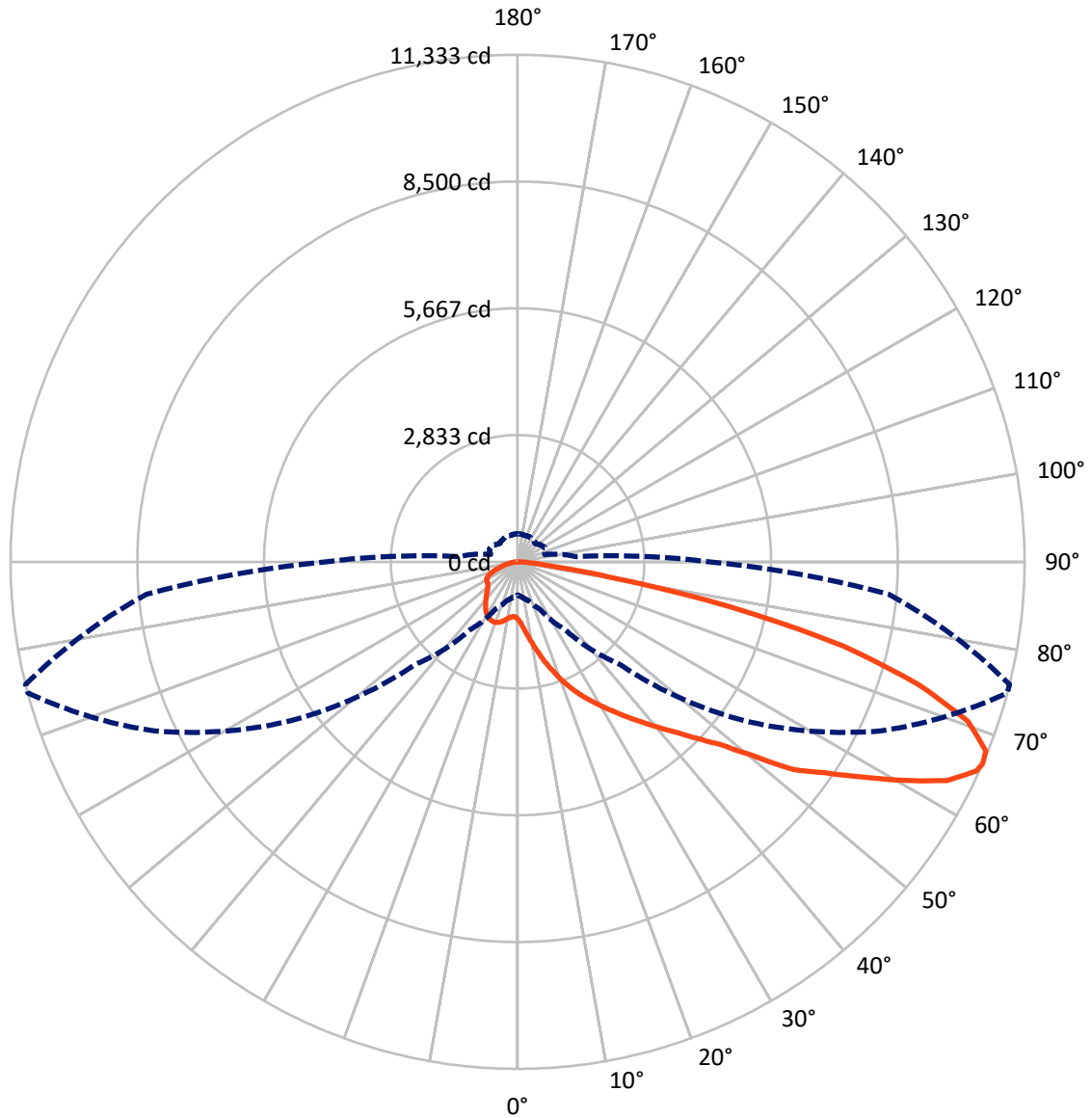
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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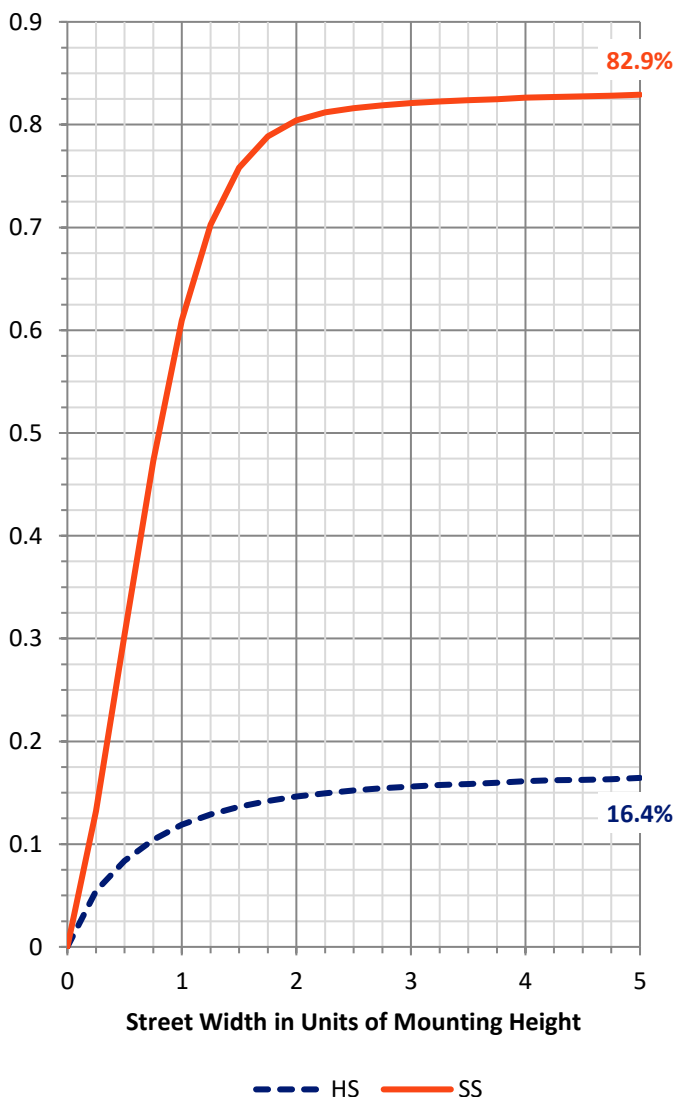
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.3	0.0	2363.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	11681.7	0.0	11681.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	14044.9	0.0	14044.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.1	1.1
10°-20°	612.5	4.4
20°-30°	1190.2	8.5
30°-40°	1942.7	13.8
40°-50°	2654.2	18.9
50°-60°	3091.6	22.0
60°-70°	2771.7	19.7
70°-80°	1400.7	10.0
80°-90°	226.2	1.6
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°	14044.9	100.0
0°-180°	14044.9	100.0

Coefficient of Utilization



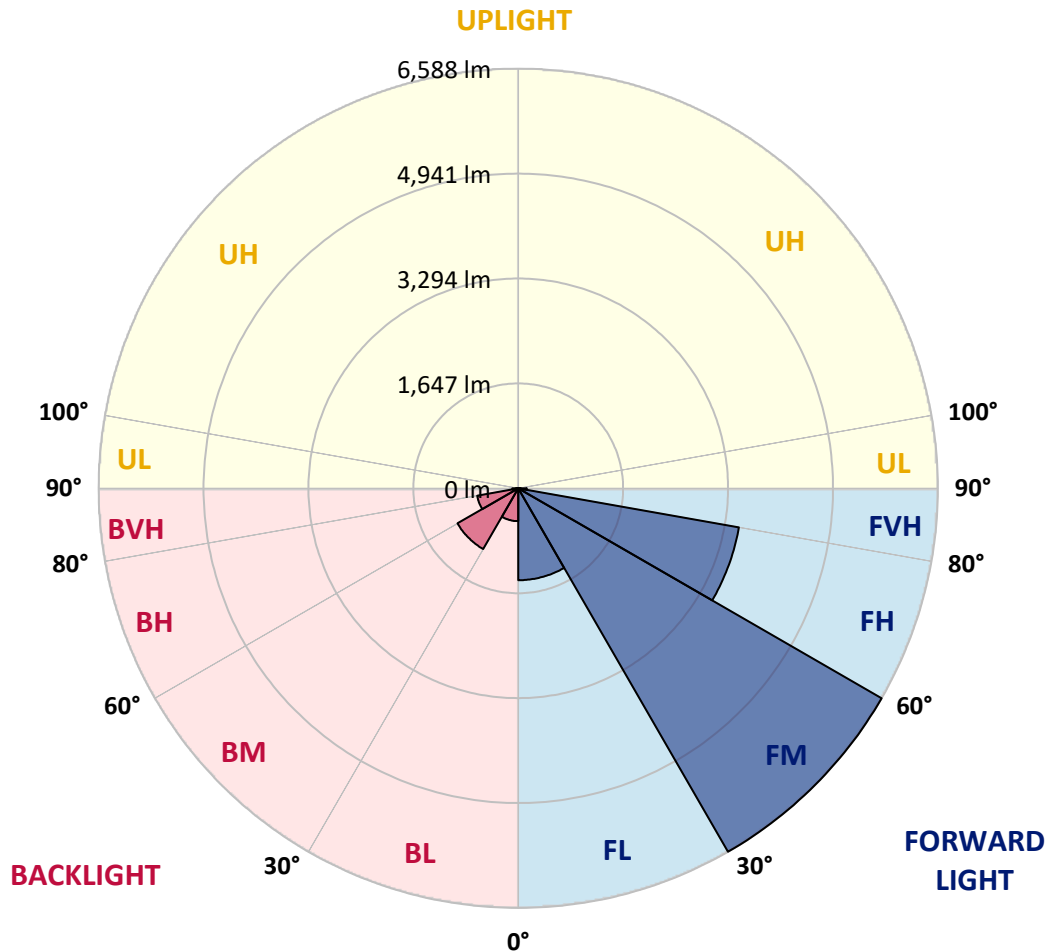
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1442.4	10.3			
FM (30°-60°)	6588.1	46.9			
FH (60°-80°)	3517.7	25.0			G2/5000
FVH (80°-90°)	133.6	1.0			G2/225
BL (0°-30°)	515.4	3.7	B2/1000		
BM (30°-60°)	1100.5	7.8	B2/2500		
BH (60°-80°)	654.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	92.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6
2.5°	1702.7	1677.0	1674.5	1636.9	1628.3	1556.3	1503.4	1448.1	1385.1	1372.7	1323.2
5°	2187.1	2184.8	2151.9	2090.3	2042.1	1919.2	1797.6	1668.9	1527.7	1504.8	1393.2
7.5°	2623.0	2619.1	2593.9	2527.6	2458.0	2306.8	2133.2	1935.8	1707.0	1673.2	1488.1
10°	2953.8	2952.4	2943.8	2895.2	2836.1	2691.1	2499.4	2230.0	1915.4	1869.1	1606.8
12.5°	3209.4	3212.3	3218.0	3200.8	3172.7	3049.2	2852.8	2541.9	2137.5	2091.8	1738.9
15°	3382.4	3391.1	3420.6	3445.0	3459.8	3383.9	3193.7	2860.9	2386.4	2331.6	1885.3
17.5°	3469.7	3479.3	3530.3	3603.7	3671.4	3663.8	3512.7	3165.0	2625.3	2572.4	2042.7
20°	3545.1	3552.3	3609.5	3697.7	3817.4	3870.3	3785.4	3457.8	2887.1	2824.2	2209.5
22.5°	3763.5	3772.5	3789.7	3839.7	3945.6	4042.9	4001.8	3734.9	3126.9	3068.2	2367.8
25°	4185.0	4196.0	4158.7	4116.3	4136.4	4204.1	4211.7	3987.6	3370.1	3303.8	2538.1
27.5°	4692.8	4708.5	4645.1	4535.9	4440.5	4414.3	4405.3	4194.5	3602.3	3525.5	2706.3
30°	5190.1	5217.2	5134.8	4993.2	4818.2	4695.2	4604.1	4397.2	3831.2	3757.8	2865.2
32.5°	5675.9	5665.0	5545.3	5407.1	5202.0	5048.0	4827.7	4614.6	4088.7	4004.3	3023.0
35°	6008.8	6012.6	5901.4	5737.5	5542.0	5423.7	5127.1	4849.2	4351.4	4273.7	3202.3
37.5°	6292.0	6274.3	6148.5	5995.4	5827.1	5776.5	5477.6	5107.6	4636.0	4551.2	3393.0
40°	6386.4	6365.9	6283.4	6173.3	6038.3	6034.0	5864.3	5400.4	4957.9	4874.0	3608.1
42.5°	6329.2	6302.9	6269.1	6239.0	6197.6	6216.7	6227.6	5743.6	5311.7	5217.7	3856.9
45°	6117.9	6078.3	6102.2	6167.5	6257.7	6365.5	6555.7	6123.7	5707.9	5629.2	4149.2
47.5°	5793.2	5757.5	5831.9	5971.6	6216.7	6489.3	6866.1	6543.3	6180.9	6102.7	4565.4
50°	5336.5	5347.0	5453.3	5707.4	6077.9	6546.6	7248.5	7098.8	6868.5	6795.5	5133.4
52.5°	4586.9	4588.8	4888.3	5305.4	5831.9	6517.0	7460.7	7808.7	7807.3	7719.1	5674.1
55°	3890.8	3933.2	4170.2	4724.7	5433.3	6398.8	7609.0	8153.9	8423.8	8320.3	6178.0
57.5°	3210.9	3235.6	3460.2	4017.1	4864.4	6083.7	7761.0	8568.3	9134.3	9068.9	6804.6
60°	2437.5	2475.6	2707.8	3222.3	4136.8	5524.4	7775.3	9000.7	9983.5	9917.6	7504.1
62.5°	1582.0	1647.8	1865.2	2347.3	3256.6	4720.0	7443.5	9283.5	10788.3	10765.0	8124.9
65°	909.3	958.8	1110.0	1481.9	2246.7	3710.1	6654.3	9174.8	11283.7	11270.3	8357.1
66°	742.9	773.8	889.7	1158.2	1853.9	3258.1	6195.6	8945.5	11332.8	11333.3	8330.4
67.5°	594.1	607.9	659.9	829.2	1368.0	2582.4	5376.1	8439.5	11271.8	11288.5	8158.2
70°	491.6	498.8	515.0	555.9	746.7	1557.3	3815.9	7124.9	10659.1	10672.0	7486.4
72.5°	441.1	445.4	451.5	457.3	526.9	870.2	2330.6	5699.8	9345.5	9362.1	6462.7
75°	399.5	402.0	401.0	401.5	442.0	554.6	1204.4	4255.5	7556.5	7523.1	4950.7
77.5°	350.9	353.3	348.6	349.5	391.0	426.3	599.4	2979.1	5099.5	4864.0	2789.3
80°	296.6	298.5	296.6	300.0	340.5	321.8	348.6	1675.9	2254.8	2132.8	991.7
82.5°	224.1	232.2	237.9	251.2	280.4	228.9	233.2	652.7	686.6	653.7	304.2
85°	98.2	119.7	179.3	192.2	210.7	137.3	153.1	266.0	279.4	270.8	110.6
87.5°	25.7	28.1	88.7	111.6	116.8	61.9	79.6	121.1	127.8	121.1	36.7
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°	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6	1282.6
2.5°	1296.9	1273.5	1231.6	1194.4	1166.3	1147.2	1128.1	1118.6	1112.9	1107.1	1108.1
5°	1338.4	1291.2	1219.2	1168.2	1139.6	1121.5	1111.9	1108.1	1105.7	1100.0	1100.0
7.5°	1400.9	1334.1	1235.0	1182.5	1160.1	1146.3	1140.5	1138.6	1135.7	1129.1	1130.1
10°	1479.6	1386.0	1267.8	1216.8	1196.3	1181.0	1172.9	1170.1	1164.8	1157.3	1158.2
12.5°	1572.1	1450.4	1311.2	1257.9	1233.0	1212.5	1199.2	1191.1	1182.0	1172.0	1172.4
15°	1673.2	1520.6	1357.9	1294.6	1260.7	1232.1	1210.6	1196.8	1182.5	1170.1	1169.7
17.5°	1775.6	1588.3	1393.7	1314.6	1268.8	1231.1	1202.1	1180.6	1162.9	1147.7	1146.3
20°	1886.3	1649.3	1413.7	1312.6	1253.5	1208.7	1170.1	1143.4	1123.8	1108.5	1106.2
22.5°	1998.8	1706.5	1417.1	1293.1	1219.7	1164.8	1124.3	1094.8	1074.7	1059.0	1053.3
25°	2101.8	1750.8	1403.3	1255.4	1172.4	1113.4	1073.8	1043.7	1027.5	1009.0	1003.2
27.5°	2195.8	1781.9	1375.6	1207.3	1119.5	1061.4	1024.1	998.4	980.8	966.5	961.7
30°	2280.1	1798.5	1330.3	1150.1	1065.2	1012.3	980.8	963.1	947.9	929.8	926.4
32.5°	2360.2	1798.5	1272.1	1087.6	1011.3	968.9	950.3	939.3	922.1	904.5	899.8
35°	2440.3	1787.5	1203.5	1022.3	961.7	937.9	937.0	924.1	897.8	874.0	867.8
37.5°	2524.7	1765.2	1126.2	961.3	921.2	924.1	932.2	903.6	866.3	832.5	823.5
40°	2620.1	1734.2	1046.1	908.4	887.3	917.9	919.3	874.0	801.5	770.5	762.4
42.5°	2732.1	1703.1	971.7	861.6	860.7	899.2	894.9	810.1	766.8	751.0	746.7
45°	2879.4	1685.5	901.2	817.2	839.7	869.2	853.5	774.9	756.7	747.7	743.8
47.5°	3111.6	1694.6	836.3	781.9	818.6	839.2	776.3	760.5	747.7	736.7	732.8
50°	3402.5	1689.4	783.9	757.6	794.9	807.7	741.4	741.9	735.3	722.9	717.1
52.5°	3621.4	1648.4	750.0	743.8	773.8	751.9	719.5	723.8	720.5	702.4	696.1
55°	3832.6	1613.1	732.8	738.6	758.6	682.4	693.7	704.2	700.9	683.3	680.4
57.5°	4095.4	1606.4	722.3	740.0	745.7	647.5	668.9	682.8	680.4	672.8	671.4
60°	4417.2	1608.3	712.8	742.4	731.5	621.7	645.6	663.3	664.7	663.3	662.3
62.5°	4594.1	1556.3	689.0	735.7	706.1	599.4	621.2	647.1	647.5	650.4	649.8
65°	4443.9	1400.9	644.6	712.4	663.7	580.7	600.3	628.4	621.2	634.2	634.2
66°	4298.0	1311.2	622.7	697.1	645.6	573.6	593.7	618.9	609.9	627.5	627.5
67.5°	4000.0	1160.1	583.1	664.7	619.9	563.6	586.0	603.2	590.8	617.0	615.1
70°	3455.5	897.4	503.5	591.3	577.4	548.8	575.5	571.7	553.6	593.7	586.0
72.5°	2913.3	681.8	404.3	494.9	513.0	530.2	560.7	531.6	508.7	536.9	520.2
75°	2260.6	512.5	319.4	384.8	433.4	501.2	543.1	485.4	452.5	449.7	440.5
77.5°	1222.1	351.8	253.2	293.7	344.3	464.9	531.2	435.8	386.2	374.8	367.6
80°	483.9	228.9	184.1	222.6	240.8	412.4	502.6	378.1	318.5	307.0	296.1
82.5°	199.8	135.4	118.8	149.2	156.9	352.9	451.1	309.9	246.0	340.5	361.4
85°	85.8	74.3	70.6	77.2	88.7	247.4	359.0	236.5	265.6	237.0	188.4
87.5°	25.7	31.5	30.0	29.5	32.4	59.2	191.2	131.6	195.0	73.9	55.3
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)