

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: McGRAW-EDISON

Report Number: P528878

Luminaire Tested: **GALN-SA4A-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14867 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

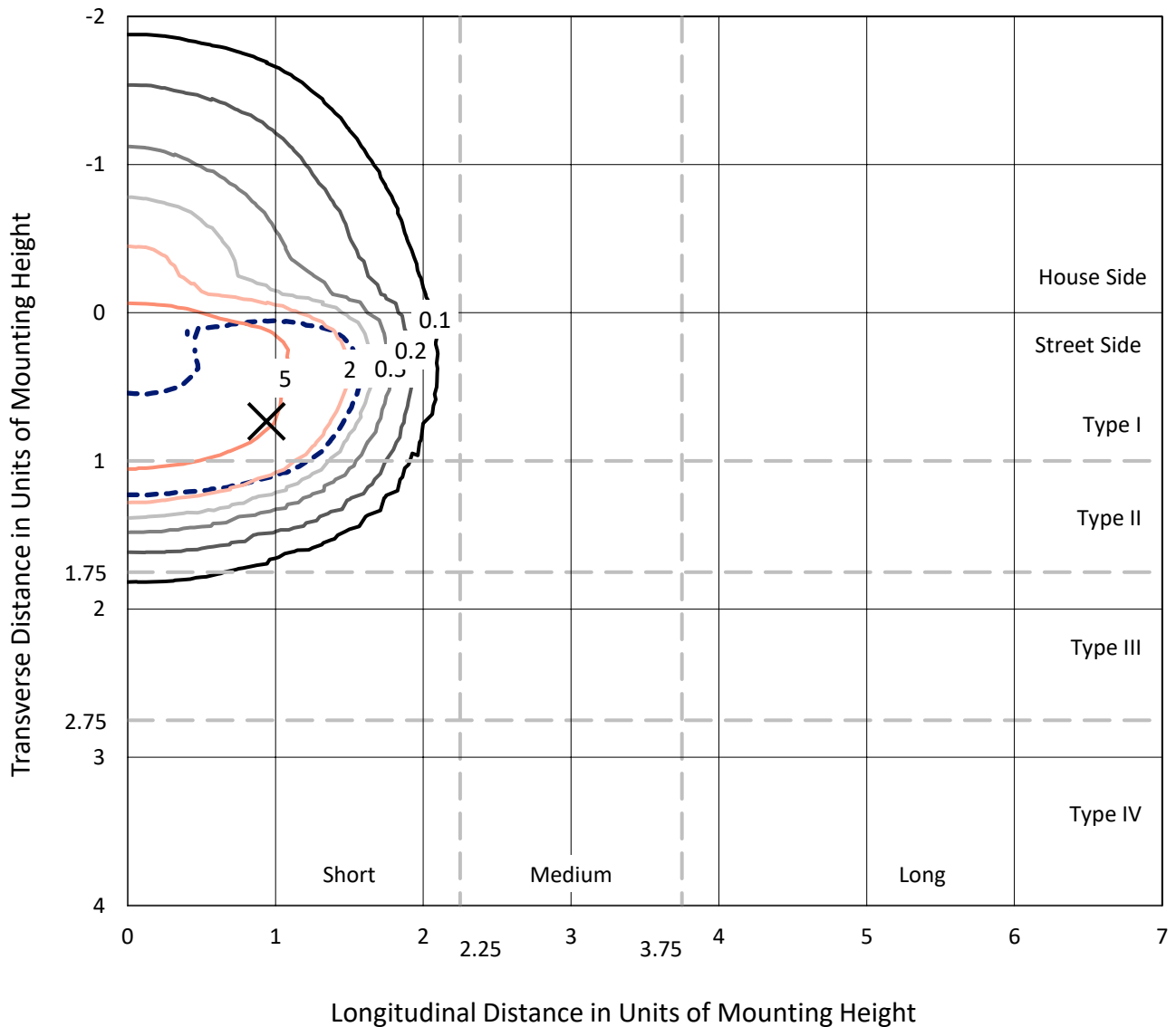
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

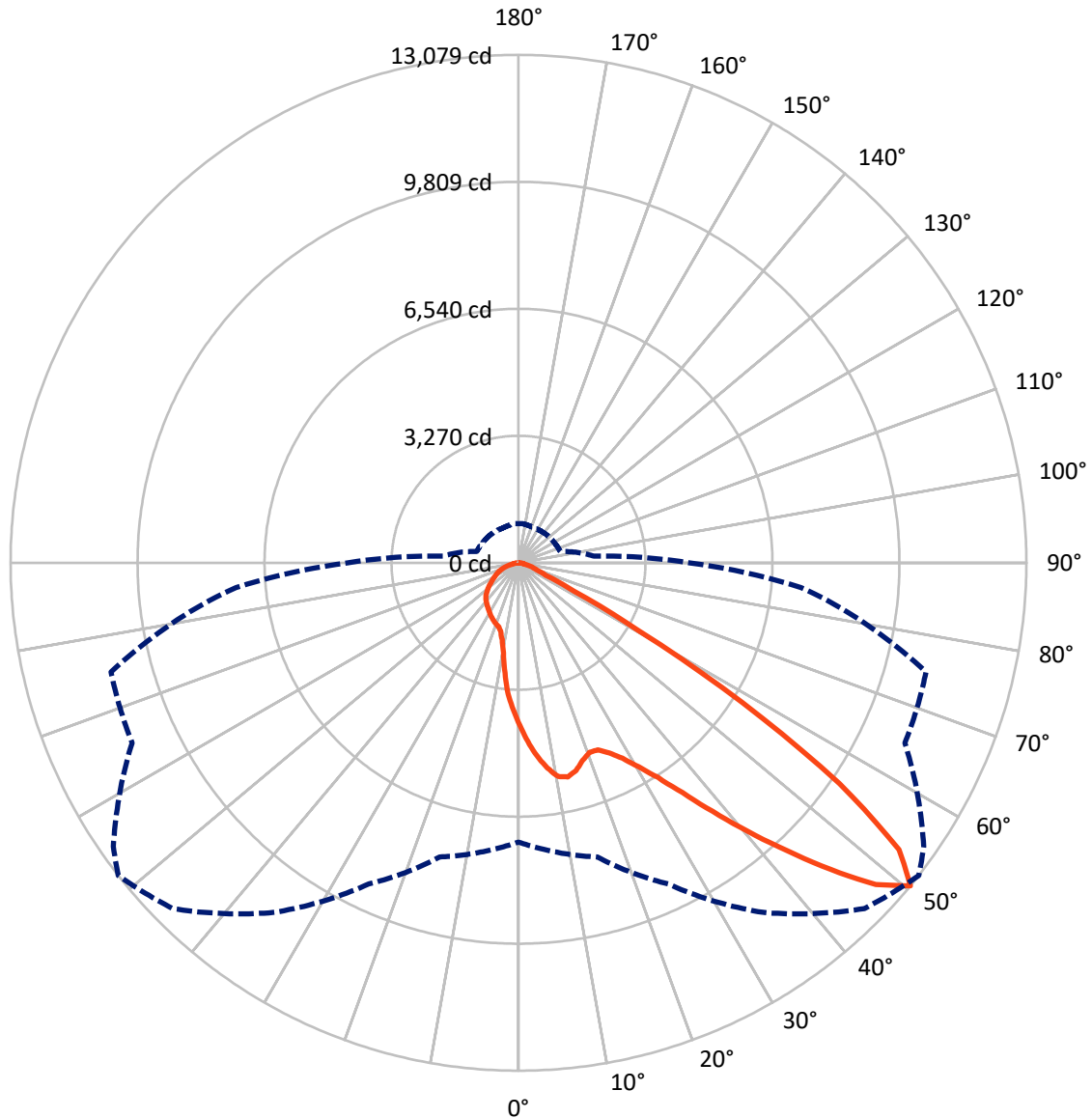
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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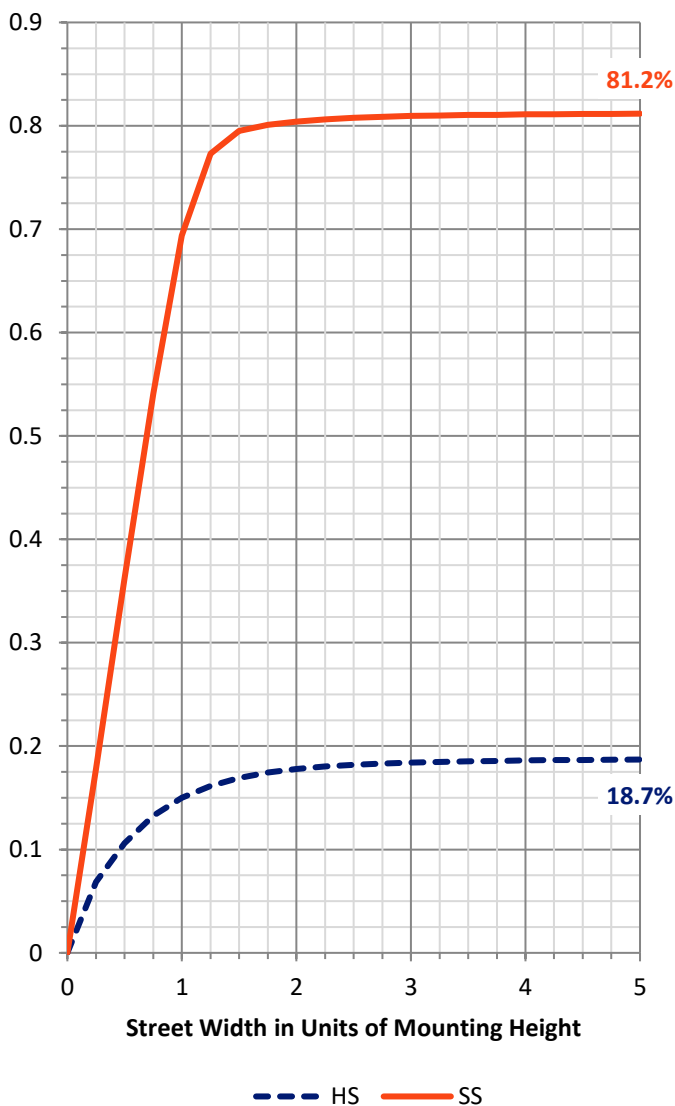
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2794.6	0.0	2794.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12072.4	0.0	12072.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	14867.0	0.0	14867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	2.6
10°-20°	1035.3	7.0
20°-30°	1743.9	11.7
30°-40°	2926.4	19.7
40°-50°	4476.6	30.1
50°-60°	3263.8	22.0
60°-70°	726.4	4.9
70°-80°	262.0	1.8
80°-90°	46.4	0.3
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°	14867.0	100.0
0°-180°	14867.0	100.0

Coefficient of Utilization

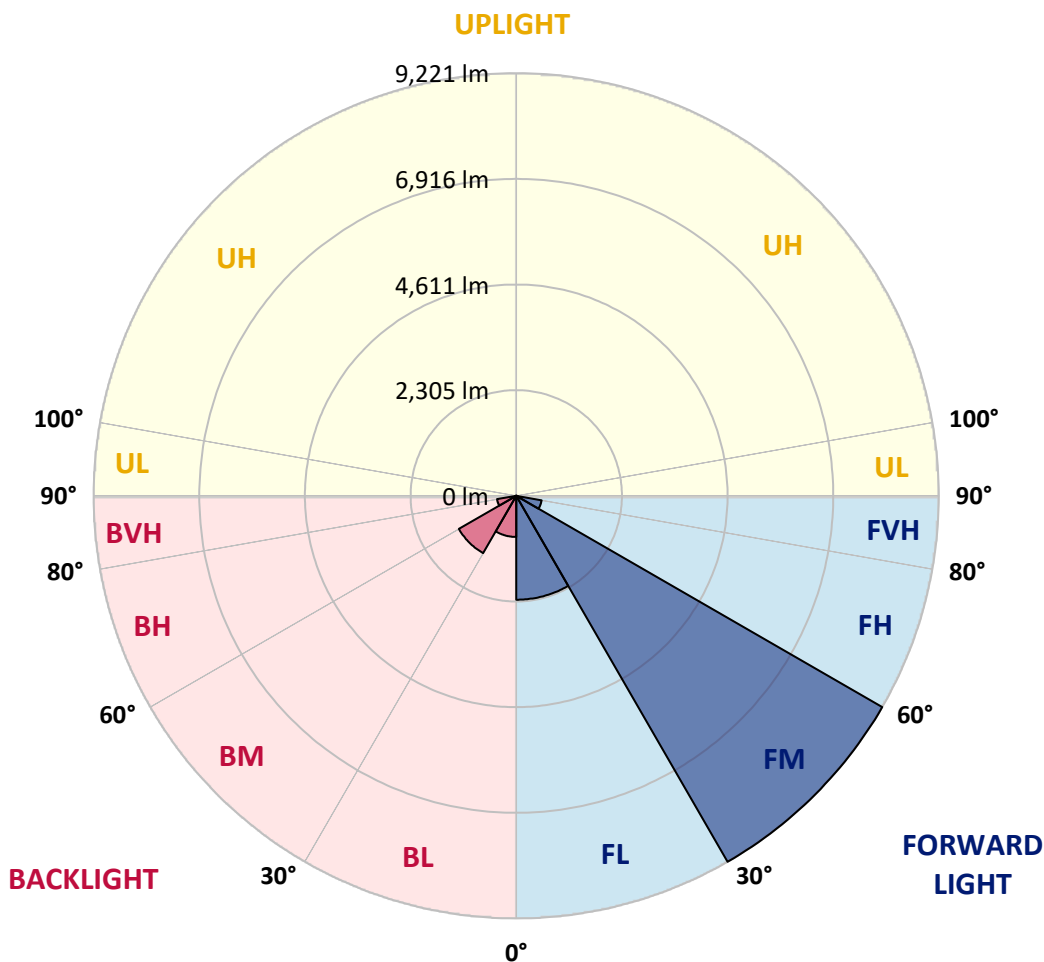


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.7	15.3			
FM (30°-60°)	9221.3	62.0			
FH (60°-80°)	562.6	3.8			G0/660
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	897.7	6.0	B2/1000		
BM (30°-60°)	1445.6	9.7	B2/2500		
BH (60°-80°)	425.8	2.9	B1/500		G1/500
BVH (80°-90°)	25.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8
2.5°	4934.3	4839.4	4850.1	4782.0	4708.6	4687.1	4611.8	4540.1	4486.4	4371.7	4266.0
5°	5393.0	5364.3	5321.3	5267.6	5212.0	5075.9	4998.8	4909.2	4712.1	4534.8	4359.2
7.5°	5459.3	5453.9	5477.2	5477.2	5496.9	5444.9	5335.7	5272.9	5063.3	4774.9	4448.8
10°	4993.4	5009.6	5122.4	5269.4	5473.6	5615.2	5597.2	5581.1	5351.8	4957.6	4554.5
12.5°	4622.6	4586.7	4653.0	4778.4	5084.8	5427.0	5658.2	5659.9	5600.8	5249.6	4631.5
15°	4412.9	4438.0	4455.9	4515.1	4746.2	5142.1	5548.9	5668.9	5928.7	5455.7	4753.4
17.5°	4547.3	4463.1	4459.5	4473.8	4592.1	4889.5	5346.4	5552.4	6107.9	5720.9	4903.9
20°	4722.9	4721.1	4670.9	4653.0	4651.2	4916.4	5213.8	5493.3	6202.8	6064.9	5056.1
22.5°	5031.1	5031.1	4948.6	4909.2	4825.0	5041.8	5231.7	5421.7	6360.5	6301.4	5129.6
25°	5547.1	5462.9	5321.3	5224.6	5176.2	5253.2	5421.7	5591.9	6498.5	6552.2	5281.9
27.5°	6023.7	5891.1	5821.2	5654.6	5590.1	5545.3	5699.4	5871.4	6659.7	6942.8	5364.3
30°	6564.7	6541.5	6416.0	6201.0	6041.6	5959.2	6100.7	6270.9	6955.3	7342.3	5554.2
32.5°	7532.3	7320.8	7150.6	6887.3	6627.5	6451.9	6591.6	6704.5	7446.3	7759.8	5762.1
35°	8576.8	8508.7	8214.9	7740.1	7342.3	7184.7	7267.1	7351.3	8017.8	8397.6	6111.5
37.5°	9603.5	9510.3	9268.4	8868.9	8385.1	8064.4	8123.5	8222.1	8659.2	9257.7	6537.9
40°	10341.6	10227.0	10105.1	10046.0	9565.8	9126.9	9092.8	9117.9	9526.4	10063.9	7010.9
42.5°	10395.4	10536.9	10574.5	10812.8	10700.0	10339.8	10130.2	10135.6	10354.2	10861.2	7489.3
45°	10282.5	10151.7	10429.4	11079.8	11452.5	11620.9	11267.9	11223.1	10866.6	11323.5	7727.6
47.5°	9098.2	9134.0	9603.5	10631.9	11708.7	12461.2	12378.8	12230.1	11140.7	11307.3	7689.9
50°	7191.8	7408.6	7844.0	9125.1	10992.0	12593.8	13079.3	12735.3	10977.7	10863.0	7306.5
52.5°	4789.2	4878.8	5165.4	6819.2	8838.4	11257.2	12273.1	12351.9	10827.2	10280.7	6821.0
55°	2132.1	2124.9	2528.1	3561.9	5545.3	8566.1	10028.1	10508.3	10248.5	9687.7	6348.0
57.5°	903.0	933.5	1098.3	1539.1	2727.0	5169.0	6794.1	7215.1	7881.6	7955.1	4869.8
60°	611.0	614.5	659.3	770.4	1141.3	2427.7	3563.7	4068.9	4545.5	4513.3	2583.6
62.5°	480.2	492.7	526.8	571.5	677.3	1101.9	1594.6	1875.9	1906.4	1603.6	980.1
65°	410.3	412.1	446.1	483.8	530.3	641.4	768.6	783.0	791.9	763.3	720.3
67.5°	338.6	342.2	369.1	412.1	455.1	490.9	526.8	544.7	585.9	666.5	655.8
70°	268.8	274.1	297.4	333.3	372.7	394.2	439.0	455.1	492.7	555.4	580.5
72.5°	204.3	206.0	225.8	250.8	286.7	308.2	345.8	363.7	388.8	442.5	465.8
75°	146.9	152.3	166.6	179.2	184.5	198.9	234.7	254.4	290.3	313.5	315.3
77.5°	77.0	80.6	84.2	84.2	102.1	129.0	152.3	163.0	188.1	206.0	197.1
80°	30.5	32.3	41.2	55.5	71.7	93.2	109.3	114.7	136.2	146.9	152.3
82.5°	17.9	19.7	26.9	39.4	52.0	66.3	78.8	84.2	98.5	111.1	114.7
85°	9.0	10.8	16.1	25.1	34.0	41.2	39.4	37.6	37.6	35.8	37.6
87.5°	3.6	3.6	5.4	5.4	5.4	7.2	9.0	9.0	9.0	10.8	10.8
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°	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8	4190.8
2.5°	4196.1	4124.5	4058.2	3936.3	3803.8	3766.1	3612.0	3556.5	3517.1	3470.5	3456.2
5°	4217.6	4122.7	3909.5	3664.0	3468.7	3217.9	3053.0	2875.7	2746.7	2714.4	2705.5
7.5°	4262.4	4099.4	3732.1	3361.2	2961.7	2621.2	2361.4	2221.7	2098.1	2090.9	2078.4
10°	4312.6	4029.5	3538.6	2956.3	2445.7	2130.3	1974.4	1913.5	1883.1	1875.9	1872.3
12.5°	4353.8	4015.2	3321.8	2562.1	2080.2	1890.2	1843.6	1838.3	1850.8	1854.4	1861.6
15°	4371.7	3957.8	3060.2	2209.2	1852.6	1782.7	1802.4	1823.9	1832.9	1856.2	1838.3
17.5°	4405.8	3884.4	2737.7	1929.6	1725.4	1737.9	1772.0	1797.1	1811.4	1827.5	1804.2
20°	4423.7	3818.1	2434.9	1763.0	1680.6	1703.9	1750.5	1770.2	1788.1	1795.3	1768.4
22.5°	4407.6	3681.9	2167.9	1628.6	1637.6	1668.1	1709.3	1730.8	1720.0	1691.4	1675.2
25°	4364.6	3490.2	1890.2	1542.6	1576.7	1630.4	1662.7	1646.6	1626.9	1610.7	1605.4
27.5°	4362.8	3255.5	1689.6	1463.8	1524.7	1598.2	1587.4	1573.1	1582.1	1569.5	1555.2
30°	4371.7	3028.0	1524.7	1419.0	1487.1	1522.9	1535.5	1521.1	1531.9	1508.6	1515.8
32.5°	4325.1	2805.8	1417.2	1367.1	1442.3	1440.5	1481.7	1492.5	1467.4	1419.0	1426.2
35°	4344.8	2626.6	1325.8	1343.8	1392.1	1392.1	1424.4	1411.9	1345.6	1316.9	1324.1
37.5°	4481.0	2451.0	1281.1	1311.5	1343.8	1358.1	1347.4	1293.6	1277.5	1277.5	1281.1
40°	4610.0	2300.5	1254.2	1304.3	1299.0	1307.9	1229.1	1234.5	1234.5	1236.3	1227.3
42.5°	4724.7	2198.4	1232.7	1261.3	1270.3	1223.7	1175.3	1170.0	1182.5	1180.7	1173.6
45°	4765.9	2114.2	1202.2	1213.0	1220.1	1143.1	1119.8	1109.1	1123.4	1128.8	1135.9
47.5°	4608.2	2044.3	1168.2	1146.7	1132.3	1082.2	1051.7	1032.0	1049.9	1080.4	1087.6
50°	4405.8	1952.9	1114.4	1073.2	1042.8	1021.3	999.8	980.1	992.6	1014.1	1008.7
52.5°	4106.6	1809.6	1046.3	1003.3	951.4	956.8	937.1	926.3	933.5	933.5	928.1
55°	3680.1	1487.1	931.7	901.2	858.2	872.6	876.1	861.8	847.5	860.0	849.3
57.5°	2511.9	1049.9	831.3	831.3	788.3	808.1	806.3	772.2	738.2	741.8	734.6
60°	1453.1	836.7	766.8	759.7	714.9	731.0	734.6	711.3	659.3	662.9	655.8
62.5°	826.0	714.9	670.1	659.3	650.4	664.7	664.7	634.3	589.5	593.0	585.9
65°	702.3	662.9	598.4	596.6	593.0	596.6	582.3	550.0	510.6	494.5	496.3
67.5°	637.8	612.8	550.0	533.9	523.2	521.4	494.5	464.0	446.1	431.8	430.0
70°	559.0	539.3	492.7	471.2	460.5	435.4	408.5	388.8	363.7	356.5	363.7
72.5°	442.5	440.8	422.8	399.5	376.3	356.5	333.3	306.4	283.1	277.7	265.2
75°	306.4	310.0	313.5	310.0	290.3	265.2	238.3	216.8	188.1	172.0	168.4
77.5°	200.7	206.0	211.4	204.3	191.7	168.4	150.5	123.6	102.1	89.6	87.8
80°	146.9	154.1	157.7	152.3	138.0	120.0	100.3	78.8	62.7	52.0	52.0
82.5°	112.9	120.0	123.6	114.7	100.3	86.0	71.7	55.5	43.0	34.0	32.3
85°	39.4	37.6	44.8	46.6	55.5	52.0	43.0	32.3	25.1	17.9	16.1
87.5°	10.8	10.8	12.5	12.5	10.8	9.0	9.0	9.0	7.2	5.4	5.4
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)