

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: P529034

Luminaire Tested: **GALN-SA4A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529034
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-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 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: 12972 lumens
Efficiency: N/A
Efficacy: 107.2 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



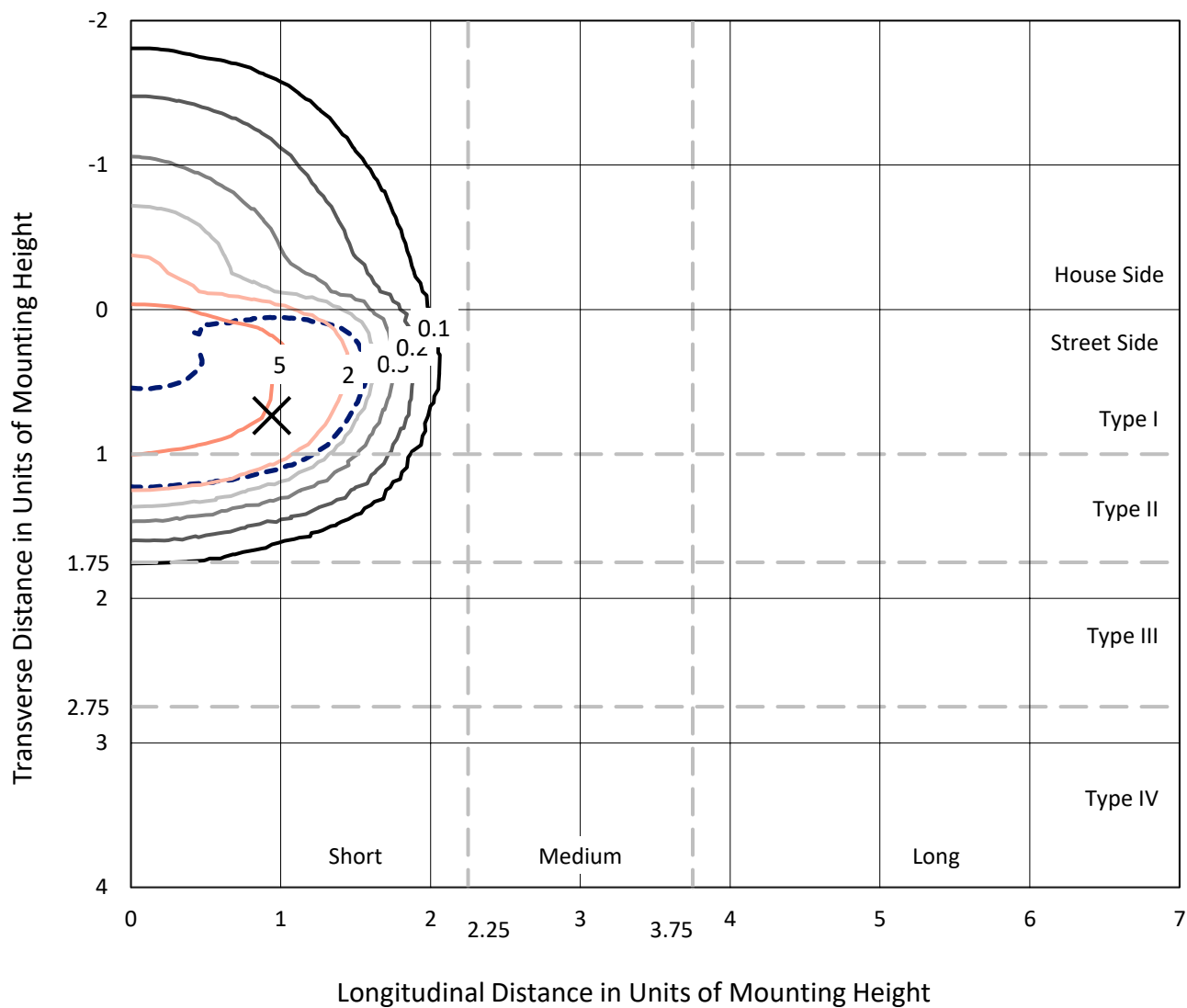
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

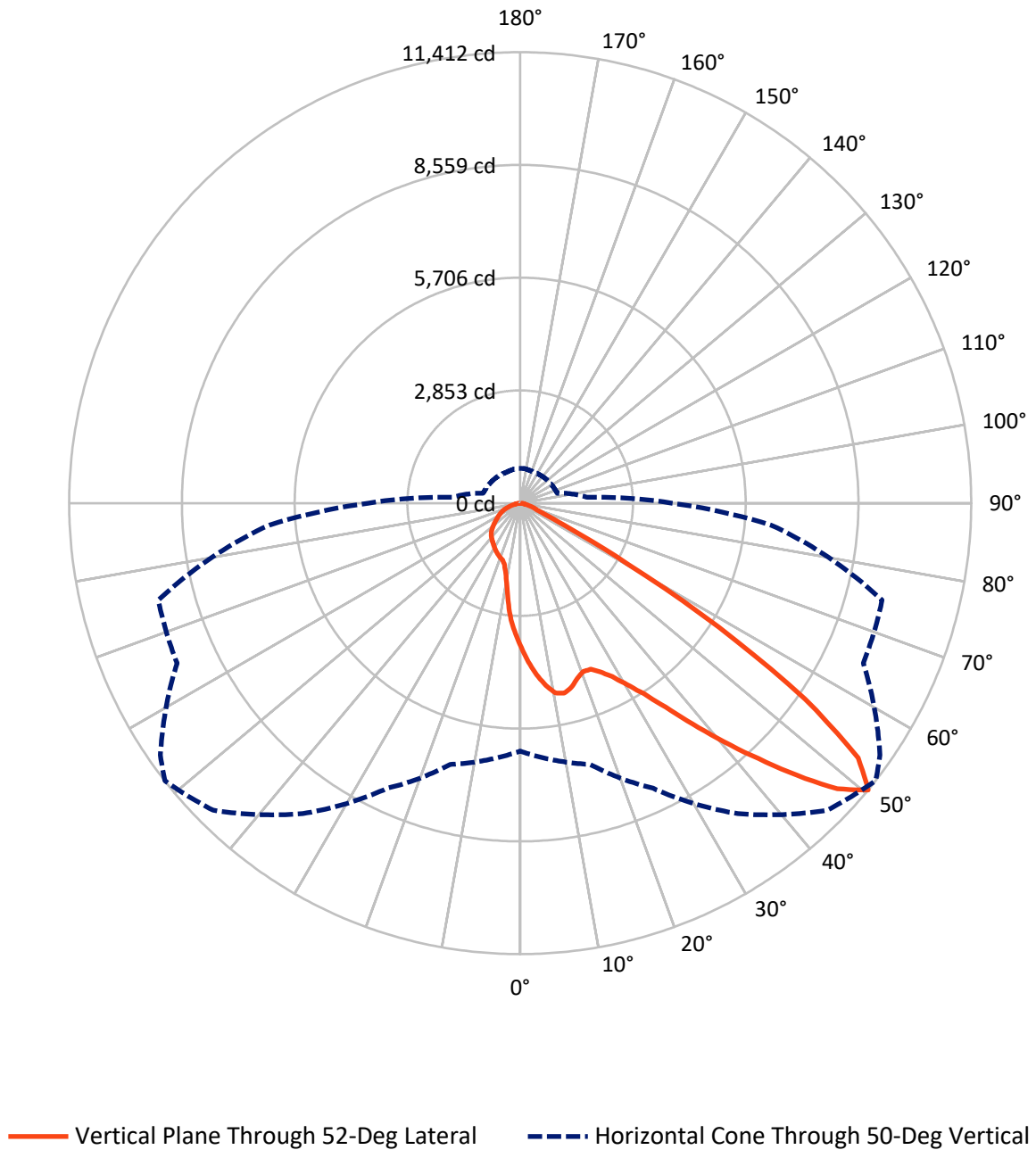
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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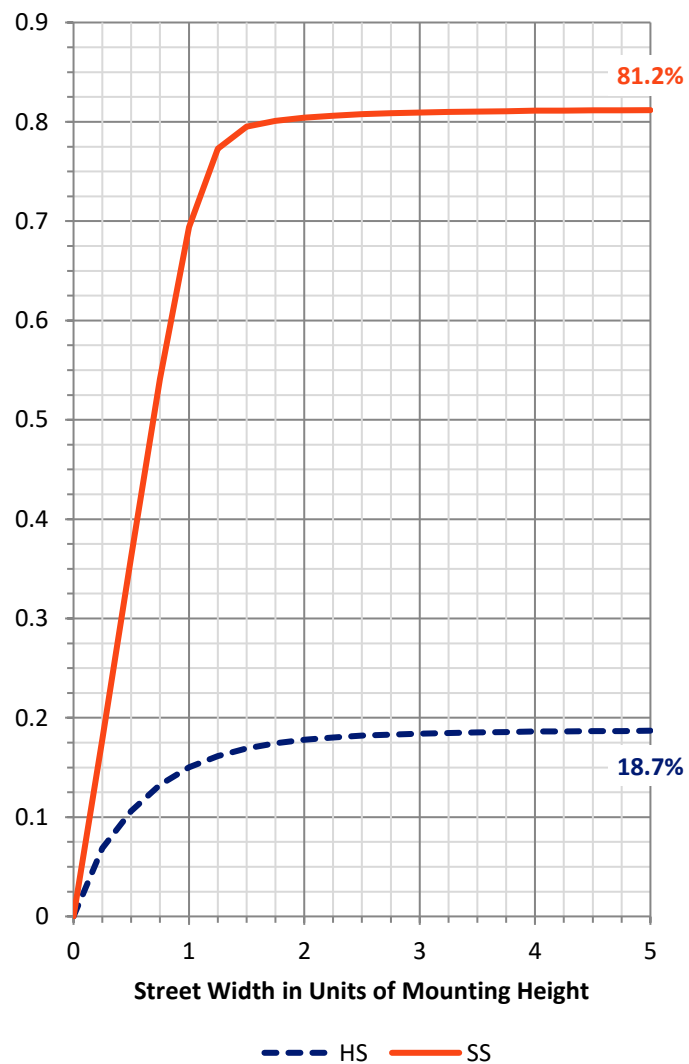
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2438.4	0.0	2438.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10533.6	0.0	10533.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	12972.0	0.0	12972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	2.6
10°-20°	903.3	7.0
20°-30°	1521.6	11.7
30°-40°	2553.4	19.7
40°-50°	3906.0	30.1
50°-60°	2847.8	22.0
60°-70°	633.8	4.9
70°-80°	228.6	1.8
80°-90°	40.5	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°	12972.0	100.0
0°-180°	12972.0	100.0

Coefficient of Utilization



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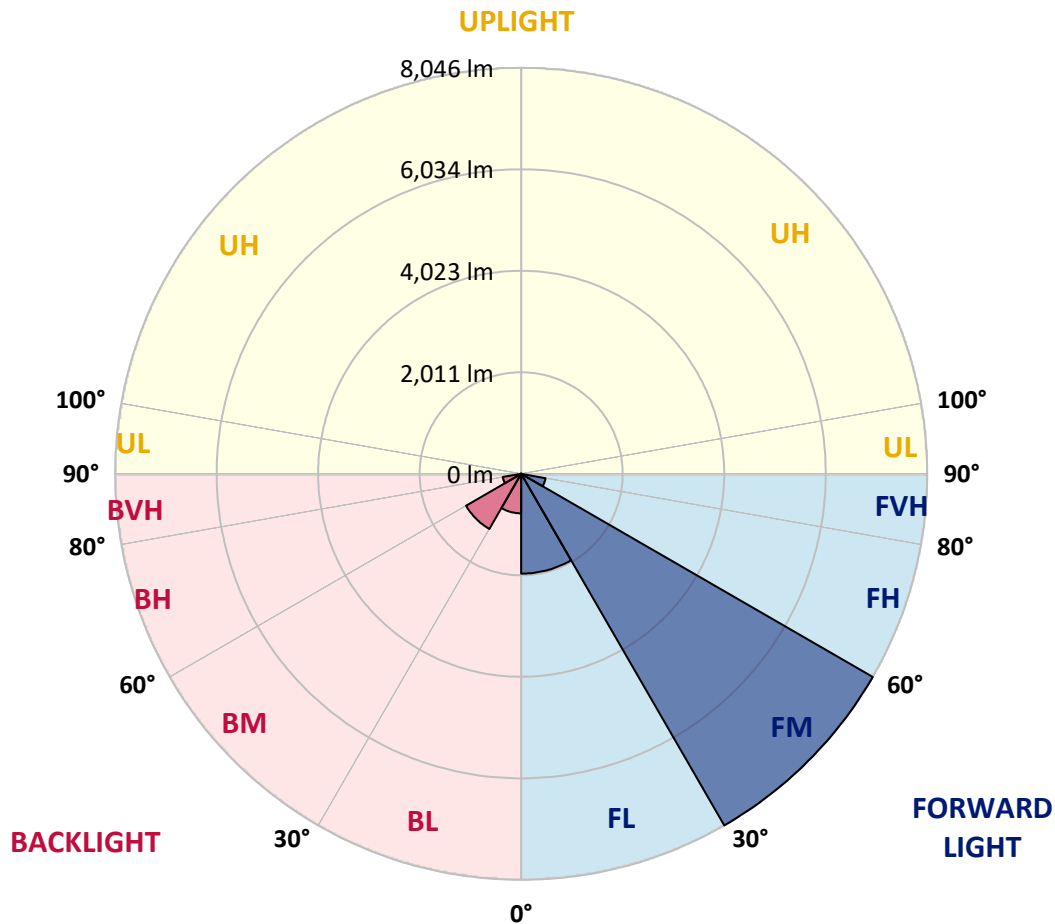
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.7	15.3			
FM	(30°-60°)	8045.9	62.0			
FH	(60°-80°)	490.9	3.8			G0/660
FVH	(80°-90°)	18.1	0.1			G1/100
BL	(0°-30°)	783.3	6.0	B2/1000		
BM	(30°-60°)	1261.3	9.7	B2/2500		
BH	(60°-80°)	371.5	2.9	B1/500		G1/500
BVH	(80°-90°)	22.3	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°	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6
2.5°	4305.4	4222.5	4231.9	4172.5	4108.4	4089.6	4024.0	3961.4	3914.5	3814.5	3722.3
5°	4705.6	4680.6	4643.0	4596.1	4547.7	4428.9	4361.6	4283.5	4111.5	3956.7	3803.5
7.5°	4763.4	4758.7	4779.1	4779.1	4796.2	4750.9	4655.5	4600.8	4417.9	4166.2	3881.7
10°	4357.0	4371.0	4469.5	4597.7	4775.9	4899.4	4883.8	4869.7	4669.6	4325.7	3973.9
12.5°	4033.4	4002.1	4059.9	4169.4	4436.7	4735.3	4936.9	4938.5	4886.9	4580.5	4041.2
15°	3850.4	3872.3	3888.0	3939.6	4141.2	4486.7	4841.6	4946.3	5173.0	4760.3	4147.5
17.5°	3967.7	3894.2	3891.1	3903.6	4006.8	4266.3	4664.9	4844.7	5329.3	4991.7	4278.8
20°	4120.9	4119.3	4075.6	4059.9	4058.4	4289.7	4549.2	4793.1	5412.2	5291.8	4411.7
22.5°	4389.8	4389.8	4317.9	4283.5	4210.0	4399.2	4564.9	4730.6	5549.8	5498.2	4475.8
25°	4840.0	4766.5	4643.0	4558.6	4516.4	4583.6	4730.6	4879.1	5670.1	5717.0	4608.7
27.5°	5255.9	5140.2	5079.2	4933.8	4877.5	4838.5	4972.9	5123.0	5810.8	6057.8	4680.6
30°	5728.0	5707.7	5598.2	5410.6	5271.5	5199.6	5323.1	5471.6	6068.8	6406.5	4846.3
32.5°	6572.2	6387.7	6239.2	6009.4	5782.7	5629.5	5751.4	5849.9	6497.1	6770.7	5027.6
35°	7483.6	7424.2	7167.8	6753.5	6406.5	6268.9	6340.8	6414.3	6995.8	7327.3	5332.5
37.5°	8379.4	8298.1	8087.0	7738.4	7316.3	7036.5	7088.1	7174.0	7555.5	8077.6	5704.5
40°	9023.4	8923.4	8817.1	8765.5	8346.5	7963.5	7933.8	7955.7	8312.1	8781.1	6117.2
42.5°	9070.3	9193.9	9226.7	9434.6	9336.1	9021.9	8839.0	8843.7	9034.4	9476.8	6534.7
45°	8971.9	8857.7	9100.1	9667.5	9992.7	10139.7	9831.7	9792.6	9481.5	9880.1	6742.6
47.5°	7938.5	7969.8	8379.4	9276.7	10216.3	10872.8	10800.9	10671.2	9720.7	9866.1	6709.7
50°	6275.1	6464.3	6844.2	7962.0	9590.9	10988.5	11412.2	11112.0	9578.4	9478.4	6375.2
52.5°	4178.7	4256.9	4507.0	5950.0	7711.8	9822.3	10708.7	10777.5	9447.1	8970.3	5951.5
55°	1860.3	1854.1	2205.8	3107.9	4838.5	7474.2	8749.9	9168.8	8942.2	8452.8	5538.8
57.5°	787.9	814.5	958.3	1342.9	2379.4	4510.2	5928.1	6295.5	6877.0	6941.1	4249.1
60°	533.1	536.2	575.3	672.2	995.8	2118.3	3109.4	3550.3	3966.1	3938.0	2254.3
62.5°	419.0	429.9	459.6	498.7	590.9	961.4	1391.3	1636.8	1663.4	1399.2	855.1
65°	358.0	359.6	389.3	422.1	462.7	559.7	670.7	683.2	691.0	666.0	628.5
67.5°	295.5	298.6	322.0	359.6	397.1	428.3	459.6	475.2	511.2	581.6	572.2
70°	234.5	239.2	259.5	290.8	325.2	343.9	383.0	397.1	429.9	484.6	506.5
72.5°	178.2	179.8	197.0	218.9	250.1	268.9	301.7	317.4	339.2	386.1	406.5
75°	128.2	132.9	145.4	156.3	161.0	173.5	204.8	222.0	253.3	273.6	275.1
77.5°	67.2	70.3	73.5	73.5	89.1	112.6	132.9	142.3	164.1	179.8	172.0
80°	26.6	28.1	36.0	48.5	62.5	81.3	95.4	100.1	118.8	128.2	132.9
82.5°	15.6	17.2	23.4	34.4	45.3	57.8	68.8	73.5	86.0	96.9	100.1
85°	7.8	9.4	14.1	21.9	29.7	36.0	34.4	32.8	32.8	31.3	32.8
87.5°	3.1	3.1	4.7	4.7	4.7	6.3	7.8	7.8	7.8	9.4	9.4
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°	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6	3656.6
2.5°	3661.3	3598.7	3540.9	3434.6	3318.9	3286.1	3151.6	3103.2	3068.8	3028.1	3015.6
5°	3680.0	3597.2	3411.2	3197.0	3026.6	2807.7	2663.9	2509.1	2396.6	2368.4	2360.6
7.5°	3719.1	3576.9	3256.4	2932.8	2584.2	2287.1	2060.4	1938.5	1830.6	1824.4	1813.4
10°	3762.9	3515.9	3087.5	2579.5	2133.9	1858.8	1722.8	1669.6	1643.0	1636.8	1633.7
12.5°	3798.9	3503.4	2898.4	2235.5	1815.0	1649.3	1608.7	1604.0	1614.9	1618.0	1624.3
15°	3814.5	3453.4	2670.1	1927.6	1616.5	1555.5	1572.7	1591.5	1599.3	1619.6	1604.0
17.5°	3844.2	3389.3	2388.7	1683.7	1505.5	1516.4	1546.1	1568.0	1580.5	1594.6	1574.3
20°	3859.8	3331.4	2124.5	1538.3	1466.4	1486.7	1527.4	1544.6	1560.2	1566.4	1543.0
22.5°	3845.8	3212.6	1891.6	1421.1	1428.9	1455.4	1491.4	1510.2	1500.8	1475.8	1461.7
25°	3808.2	3045.3	1649.3	1346.0	1375.7	1422.6	1450.8	1436.7	1419.5	1405.4	1400.7
27.5°	3806.7	2840.5	1474.2	1277.2	1330.4	1394.5	1385.1	1372.6	1380.4	1369.5	1357.0
30°	3814.5	2642.0	1330.4	1238.1	1297.6	1328.8	1339.8	1327.3	1336.6	1316.3	1322.6
32.5°	3773.8	2448.1	1236.6	1192.8	1258.5	1256.9	1292.9	1302.2	1280.4	1238.1	1244.4
35°	3791.0	2291.8	1156.9	1172.5	1214.7	1214.7	1242.8	1231.9	1174.0	1149.0	1155.3
37.5°	3909.8	2138.6	1117.8	1144.3	1172.5	1185.0	1175.6	1128.7	1114.6	1114.6	1117.8
40°	4022.4	2007.3	1094.3	1138.1	1133.4	1141.2	1072.4	1077.1	1077.1	1078.7	1070.9
42.5°	4122.5	1918.2	1075.6	1100.6	1108.4	1067.7	1025.5	1020.8	1031.8	1030.2	1024.0
45°	4158.4	1844.7	1049.0	1058.4	1064.6	997.4	977.1	967.7	980.2	984.9	991.1
47.5°	4020.8	1783.7	1019.3	1000.5	988.0	944.2	917.7	900.5	916.1	942.7	948.9
50°	3844.2	1704.0	972.4	936.4	909.8	891.1	872.3	855.1	866.1	884.8	880.1
52.5°	3583.1	1578.9	913.0	875.5	830.1	834.8	817.6	808.2	814.5	814.5	809.8
55°	3211.0	1297.6	812.9	786.3	748.8	761.3	764.5	752.0	739.4	750.4	741.0
57.5°	2191.8	916.1	725.4	725.4	687.9	705.1	703.5	673.8	644.1	647.2	641.0
60°	1267.8	730.1	669.1	662.8	623.8	637.8	641.0	620.6	575.3	578.4	572.2
62.5°	720.7	623.8	584.7	575.3	567.5	580.0	580.0	553.4	514.3	517.5	511.2
65°	612.8	578.4	522.1	520.6	517.5	520.6	508.1	479.9	445.5	431.5	433.0
67.5°	556.5	534.7	479.9	465.9	456.5	454.9	431.5	404.9	389.3	376.8	375.2
70°	487.8	470.6	429.9	411.2	401.8	379.9	356.4	339.2	317.4	311.1	317.4
72.5°	386.1	384.6	368.9	348.6	328.3	311.1	290.8	267.3	247.0	242.3	231.4
75°	267.3	270.5	273.6	270.5	253.3	231.4	207.9	189.2	164.1	150.1	147.0
77.5°	175.1	179.8	184.5	178.2	167.3	147.0	131.3	107.9	89.1	78.2	76.6
80°	128.2	134.4	137.6	132.9	120.4	104.7	87.5	68.8	54.7	45.3	45.3
82.5°	98.5	104.7	107.9	100.1	87.5	75.0	62.5	48.5	37.5	29.7	28.1
85°	34.4	32.8	39.1	40.6	48.5	45.3	37.5	28.1	21.9	15.6	14.1
87.5°	9.4	9.4	10.9	10.9	9.4	7.8	7.8	7.8	6.3	4.7	4.7
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)