

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: P454879

Luminaire Tested: **GALN-SA6A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25169 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

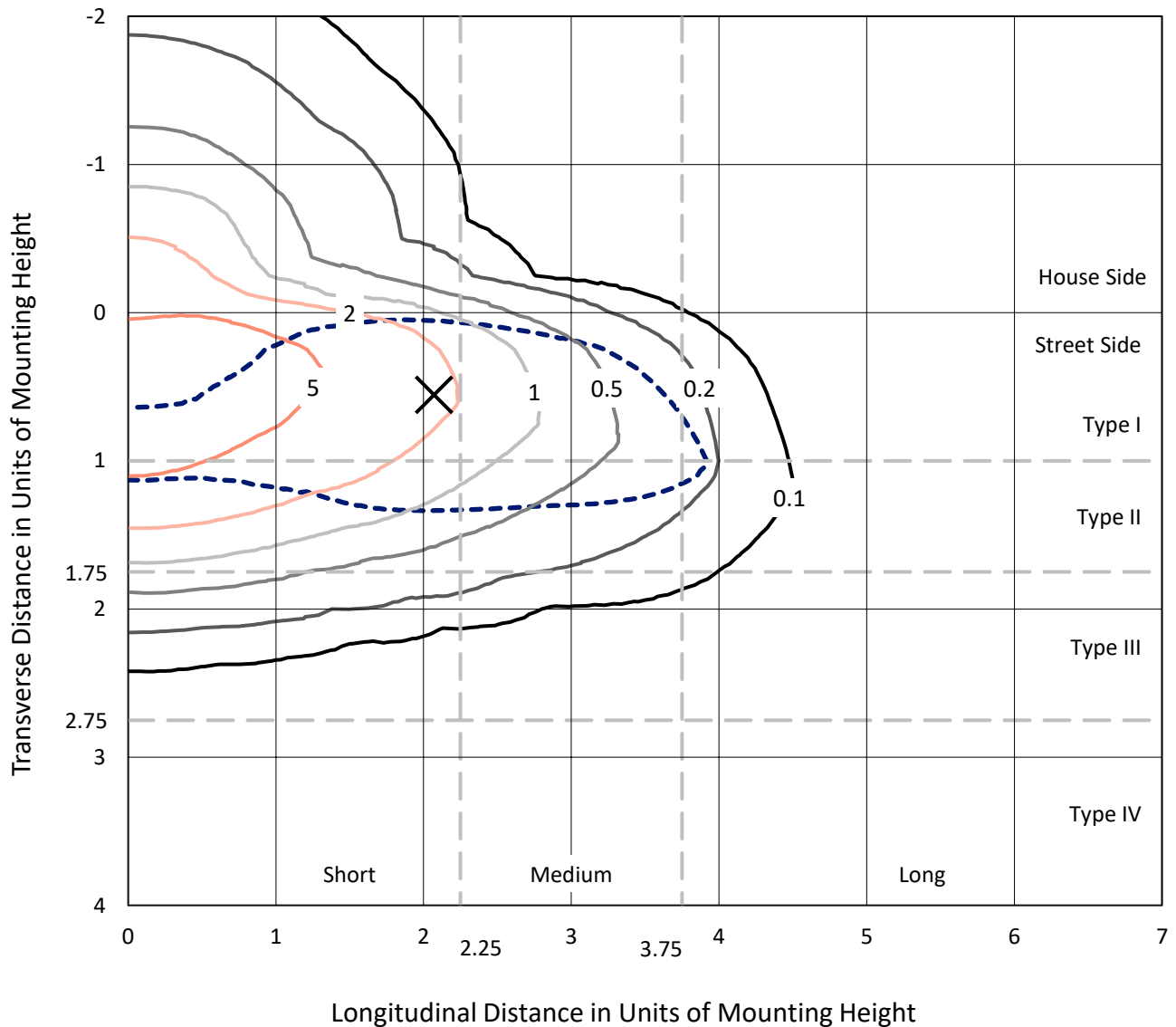
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454879
 CATALOG NUMBER: GALN-SA6A-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

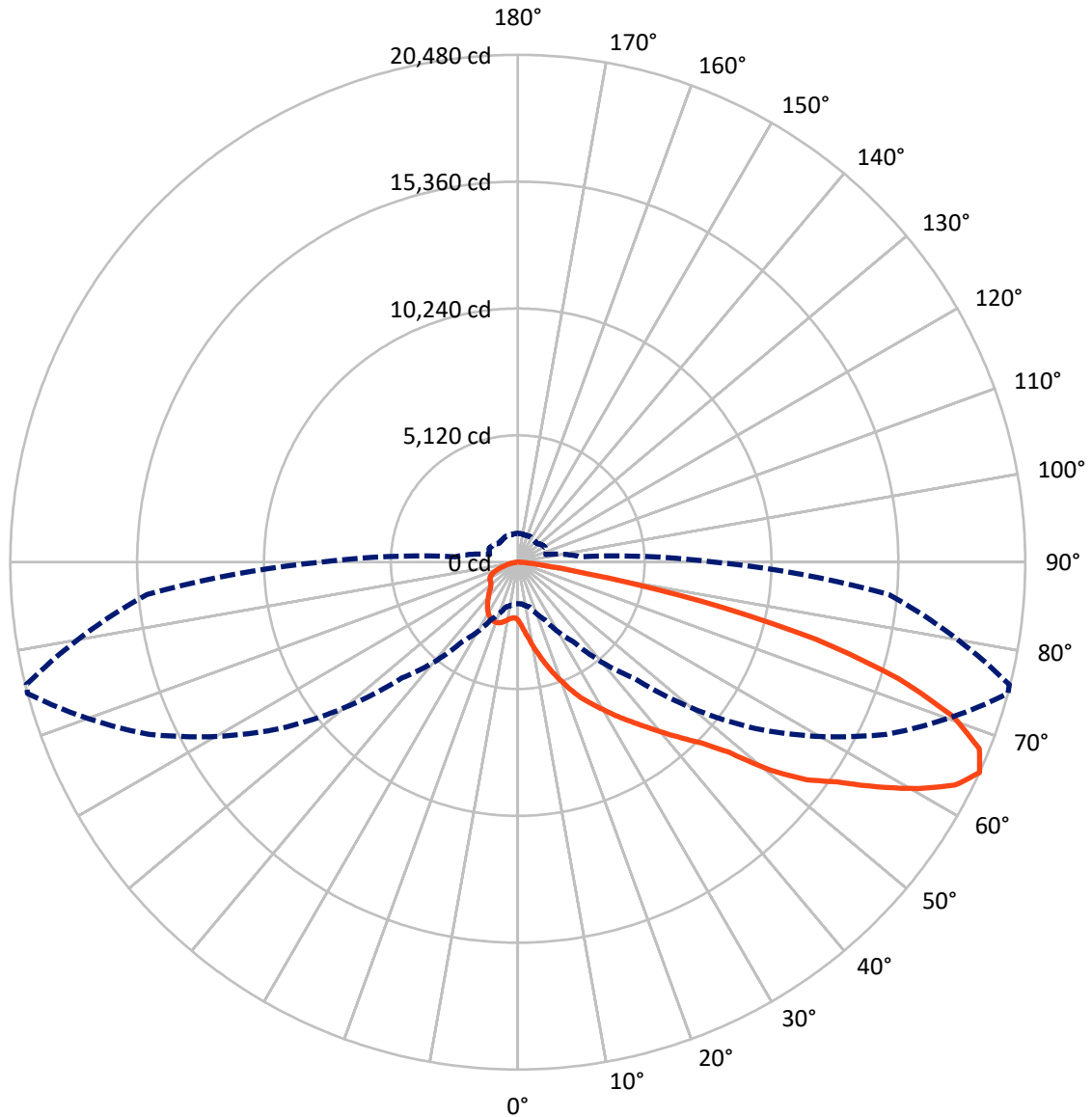
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P454879
CATALOG NUMBER: GALN-SA6A-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P454879

CATALOG NUMBER: GALN-SA6A-730-U-T2R

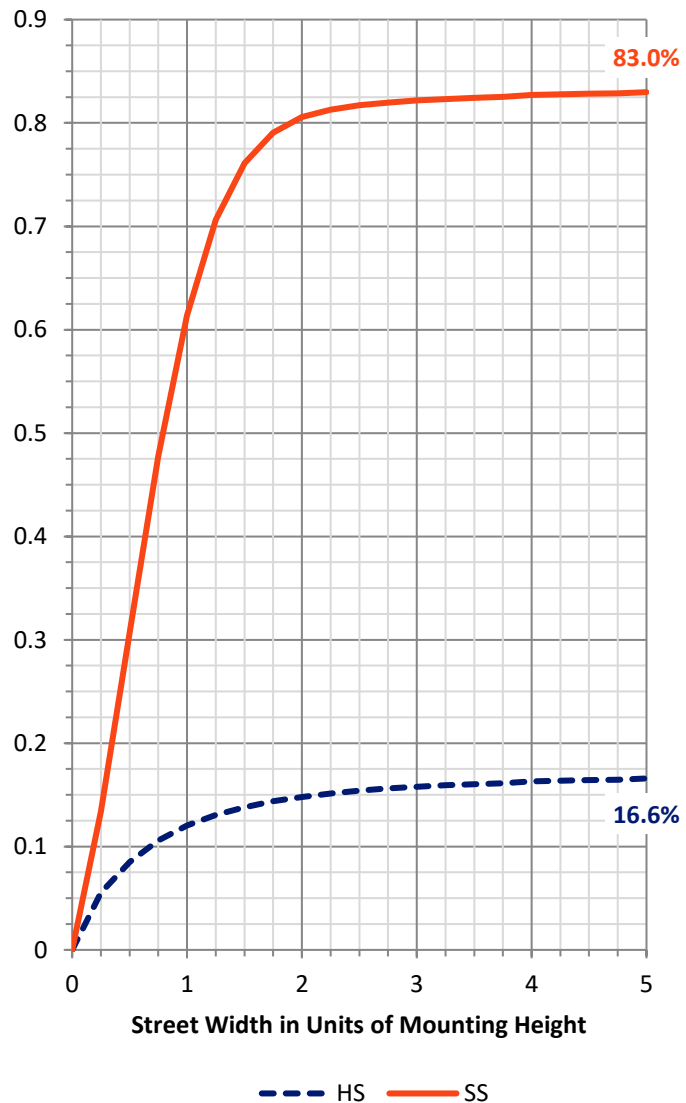
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4231.2	0.0	4231.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20937.8	0.0	20937.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	25169.0	0.0	25169.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	1.1
10°-20°	1112.9	4.4
20°-30°	2149.7	8.5
30°-40°	3491.7	13.9
40°-50°	4803.2	19.1
50°-60°	5671.0	22.5
60°-70°	4968.7	19.7
70°-80°	2372.1	9.4
80°-90°	315.6	1.3
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°	25169.0	100.0
0°-180°	25169.0	100.0



REPORT NUMBER: P454879

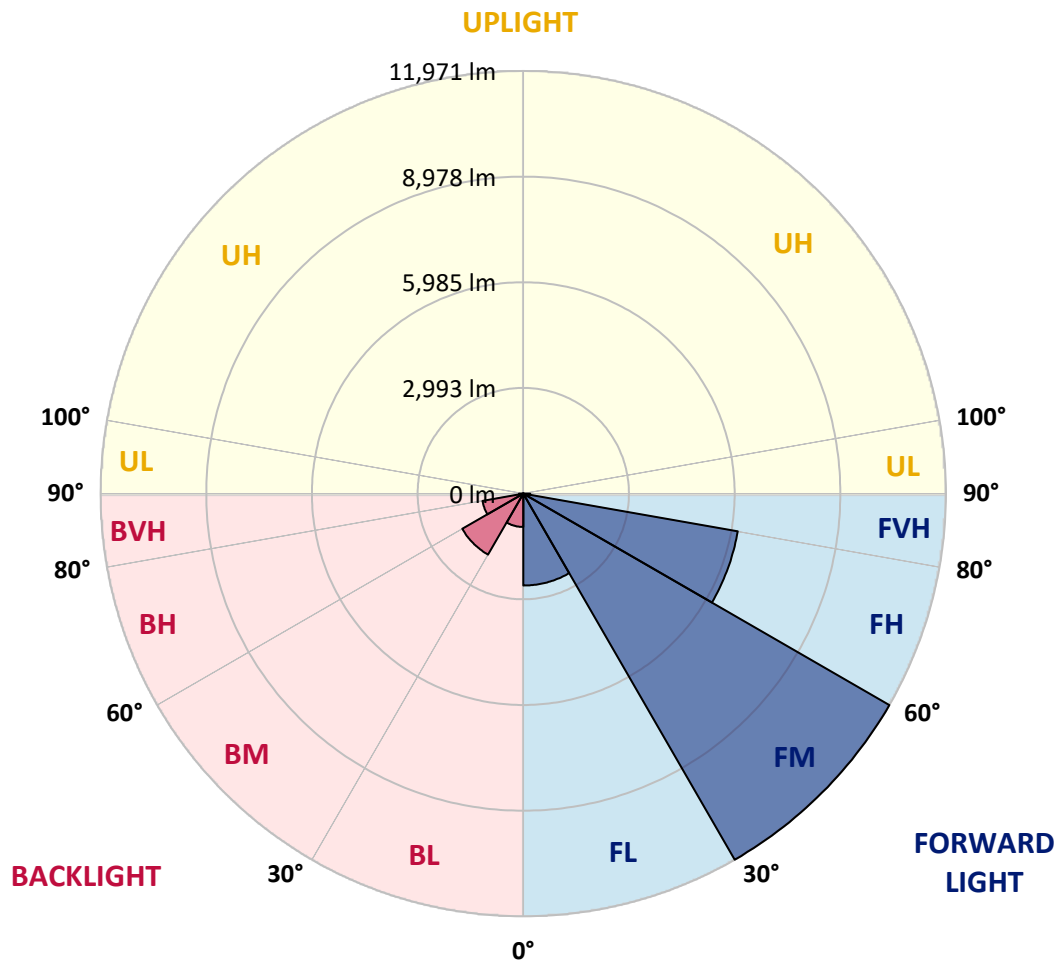
CATALOG NUMBER: GALN-SA6A-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.1	10.3			
FM (30°-60°)	11970.9	47.6			
FH (60°-80°)	6167.5	24.5			G3/7500
FVH (80°-90°)	197.3	0.8			G2/225
BL (0°-30°)	944.6	3.8	B2/1000		
BM (30°-60°)	1995.0	7.9	B2/2500		
BH (60°-80°)	1173.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	118.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P454879

CATALOG NUMBER: GALN-SA6A-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5
2.5°	3107.1	3086.6	3064.8	3004.7	2940.6	2868.2	2764.4	2664.8	2532.4	2528.3	2430.0
5°	3968.5	3954.9	3857.9	3802.0	3653.2	3455.2	3287.3	3026.6	2784.9	2756.3	2565.1
7.5°	4760.3	4707.1	4670.2	4569.2	4421.8	4167.8	3842.9	3490.7	3086.6	3048.4	2731.7
10°	5356.9	5351.4	5332.3	5244.9	5134.4	4881.8	4521.4	4016.3	3468.9	3393.8	2933.7
12.5°	5803.3	5807.4	5804.7	5803.3	5724.1	5509.8	5119.3	4586.9	3855.2	3802.0	3167.2
15°	6096.8	6137.8	6154.1	6222.4	6229.2	6085.9	5750.1	5138.5	4290.7	4211.5	3418.4
17.5°	6290.7	6311.1	6387.6	6503.6	6597.8	6571.9	6272.9	5649.0	4735.7	4603.3	3679.1
20°	6476.3	6511.8	6570.5	6728.9	6895.4	6971.9	6761.6	6171.9	5176.7	5092.0	3967.2
22.5°	6862.7	6913.2	6933.6	7014.2	7156.2	7291.3	7195.8	6672.9	5660.0	5545.3	4272.9
25°	7516.6	7569.8	7512.5	7493.4	7539.8	7606.7	7586.2	7145.2	6115.9	5952.1	4562.4
27.5°	8368.4	8375.3	8263.3	8156.8	8042.2	8008.0	7945.2	7564.3	6511.8	6375.3	4853.1
30°	9283.1	9250.3	9064.7	8872.2	8678.3	8487.2	8307.0	7968.4	6952.8	6795.8	5138.5
32.5°	10132.2	10114.5	9908.3	9609.4	9281.7	9101.5	8737.0	8376.6	7425.1	7273.6	5432.0
35°	10768.4	10794.3	10567.7	10241.4	9883.8	9724.0	9264.0	8805.3	7913.8	7748.6	5751.4
37.5°	11220.2	11206.6	11005.9	10723.3	10409.3	10270.1	9879.7	9273.5	8439.4	8281.1	6100.9
40°	11381.3	11373.1	11224.3	11018.2	10818.9	10769.7	10524.0	9778.6	9041.5	8855.8	6521.4
42.5°	11278.9	11296.7	11198.4	11142.4	11105.6	11141.1	11164.3	10440.7	9698.1	9527.4	6977.3
45°	10965.0	10955.4	10941.8	11033.2	11240.7	11474.2	11797.7	11066.0	10412.1	10275.6	7588.9
47.5°	10403.9	10472.1	10506.3	10758.8	11212.1	11764.9	12526.7	11904.2	11448.2	11329.5	8521.3
50°	9618.9	9673.5	9875.6	10324.7	11000.5	11874.2	13239.3	13274.8	13176.5	12954.0	9534.3
52.5°	8393.0	8477.6	8894.0	9717.2	10566.3	11829.1	13670.7	14450.2	14579.9	14413.4	10532.2
55°	7021.0	7139.8	7579.4	8659.2	9968.4	11583.4	13968.3	15131.4	15648.8	15494.6	11493.3
57.5°	5677.7	5803.3	6255.2	7300.9	8925.4	11040.0	14163.5	15890.5	17104.1	16903.4	12689.2
60°	4255.2	4386.3	4774.0	5851.1	7440.1	9977.9	14031.1	16548.5	18558.0	18472.0	13886.4
62.5°	2745.3	2890.0	3227.2	4118.7	5718.7	8526.8	13322.6	16911.6	19816.7	19712.9	14760.1
65°	1672.3	1688.7	1874.4	2556.9	3913.9	6601.9	11702.1	16429.7	20480.1	20448.7	15026.3
67.5°	1081.2	1107.1	1191.8	1531.7	2346.7	4585.6	9356.8	14839.3	20092.4	20081.5	14476.1
70°	913.3	921.5	959.7	1033.4	1363.8	2780.8	6570.5	12304.2	18619.4	18619.4	13153.3
72.5°	816.4	827.3	840.9	864.1	973.4	1575.4	3920.7	9578.0	16076.1	16182.6	11195.7
75°	741.3	738.6	746.7	750.8	830.0	1029.3	2027.3	7083.8	12436.6	12223.6	8107.7
77.5°	634.8	638.9	634.8	652.5	733.1	783.6	1029.3	4753.5	7537.0	7261.3	4069.5
80°	521.5	528.3	535.1	546.1	626.6	595.2	618.4	2166.5	2787.7	2729.0	1257.3
82.5°	391.8	401.4	412.3	438.2	492.8	393.2	390.4	925.6	1006.1	921.5	462.8
85°	158.4	187.0	282.6	308.5	309.9	215.7	240.3	386.3	410.9	401.4	181.6
87.5°	36.9	43.7	91.5	137.9	127.0	80.5	88.7	125.6	143.3	132.4	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454879
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5	2338.5
2.5°	2384.9	2337.2	2255.2	2192.4	2147.4	2107.8	2083.2	2068.2	2062.8	2061.4	2062.8
5°	2465.5	2380.8	2251.1	2169.2	2124.2	2098.2	2083.2	2081.9	2083.2	2084.6	2080.5
7.5°	2576.1	2454.6	2285.3	2208.8	2174.7	2155.6	2148.8	2146.0	2147.4	2146.0	2146.0
10°	2723.5	2556.9	2352.2	2273.0	2244.3	2222.5	2211.6	2204.7	2199.3	2193.8	2191.1
12.5°	2885.9	2670.3	2424.5	2348.1	2307.1	2273.0	2248.4	2230.7	2218.4	2206.1	2203.4
15°	3067.5	2790.4	2505.1	2398.6	2339.9	2289.4	2247.1	2218.4	2196.5	2178.8	2177.4
17.5°	3240.9	2903.7	2559.7	2421.8	2335.8	2264.8	2208.8	2169.2	2141.9	2118.7	2116.0
20°	3426.6	3011.5	2584.2	2406.8	2294.8	2208.8	2135.1	2087.3	2055.9	2030.0	2025.9
22.5°	3613.6	3103.0	2581.5	2359.0	2223.8	2122.8	2045.0	1994.5	1957.6	1931.7	1922.1
25°	3792.4	3176.7	2547.4	2282.5	2125.6	2020.4	1941.3	1894.8	1862.1	1830.7	1830.7
27.5°	3953.5	3220.4	2483.2	2189.7	2024.5	1914.0	1851.2	1808.8	1778.8	1758.3	1746.0
30°	4111.9	3240.9	2395.9	2072.3	1918.0	1823.9	1773.3	1748.8	1721.5	1698.3	1695.5
32.5°	4253.8	3236.8	2286.6	1957.6	1817.0	1750.1	1729.7	1710.5	1681.9	1649.1	1640.9
35°	4391.7	3209.5	2157.0	1832.0	1732.4	1706.4	1711.9	1684.6	1632.7	1591.8	1585.0
37.5°	4541.9	3160.3	2015.0	1729.7	1661.4	1686.0	1699.6	1639.6	1554.9	1490.8	1475.7
40°	4715.3	3104.4	1867.5	1627.3	1605.4	1666.9	1666.9	1556.3	1440.2	1400.7	1389.7
42.5°	4918.7	3058.0	1744.7	1541.3	1559.0	1620.4	1613.6	1445.7	1397.9	1377.4	1372.0
45°	5240.8	3041.6	1617.7	1466.2	1520.8	1565.8	1509.9	1407.5	1380.2	1363.8	1358.3
47.5°	5750.1	3060.7	1505.8	1410.2	1477.1	1511.2	1393.8	1381.5	1362.4	1339.2	1336.5
50°	6222.4	3042.9	1426.6	1378.8	1438.9	1445.7	1346.0	1350.1	1339.2	1313.3	1307.8
52.5°	6608.7	2987.0	1376.1	1362.4	1406.1	1331.0	1301.0	1316.0	1311.9	1279.2	1273.7
55°	7033.3	2952.8	1351.5	1362.4	1384.3	1231.4	1258.7	1280.5	1275.1	1251.9	1250.5
57.5°	7548.0	2959.7	1333.8	1366.5	1362.4	1180.9	1216.4	1242.3	1240.9	1234.1	1234.1
60°	8074.9	2962.4	1306.5	1365.2	1336.5	1141.3	1172.7	1209.5	1212.3	1216.4	1216.4
62.5°	8249.7	2843.6	1253.2	1340.6	1279.2	1103.0	1131.7	1182.2	1179.5	1190.4	1191.8
65°	7923.4	2514.6	1174.0	1284.6	1205.4	1075.7	1100.3	1146.7	1131.7	1160.4	1165.8
67.5°	7212.1	2080.5	1051.2	1183.6	1123.5	1047.1	1079.8	1097.6	1070.3	1126.3	1127.6
70°	6233.3	1624.5	895.5	1040.3	1030.7	1017.0	1063.5	1036.2	997.9	1066.2	1052.5
72.5°	5212.2	1240.9	715.3	850.5	906.5	972.0	1034.8	957.0	903.7	924.2	899.6
75°	3915.3	917.4	574.7	666.2	754.9	907.8	1008.9	861.4	779.5	760.4	754.9
77.5°	1995.9	599.3	430.0	498.3	566.5	820.5	973.4	749.5	645.7	615.7	602.0
80°	712.6	372.7	303.1	344.0	382.2	705.8	850.5	619.8	501.0	495.6	501.0
82.5°	330.4	240.3	203.4	225.3	226.6	471.0	648.5	462.8	380.9	578.8	488.7
85°	142.0	120.1	114.7	111.9	103.8	210.2	364.5	248.5	387.7	173.4	159.7
87.5°	42.3	47.8	42.3	31.4	23.2	23.2	36.9	13.7	9.6	6.8	6.8
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)