

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: P531699

Luminaire Tested: **GALN-SA7A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19186 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

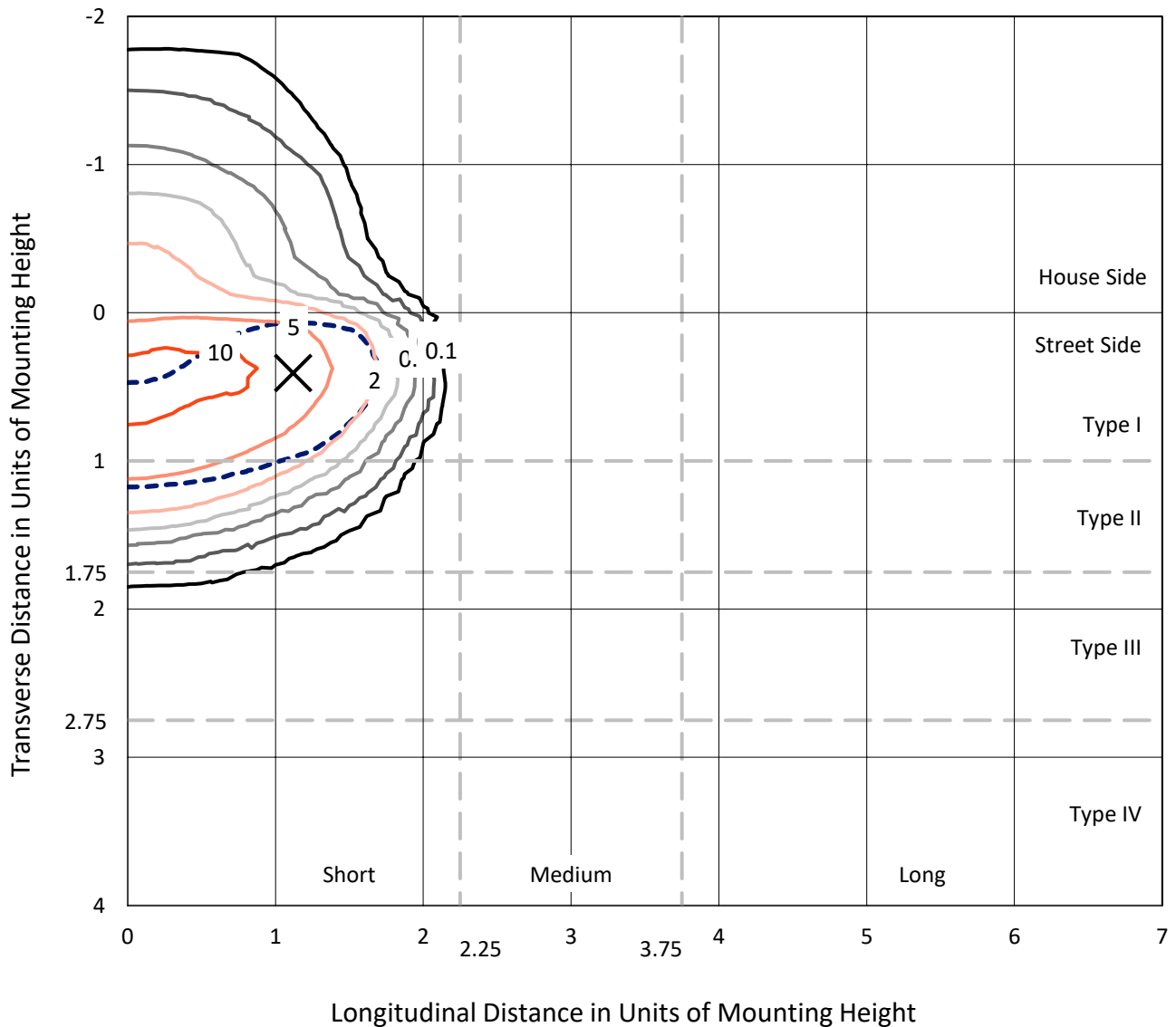
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

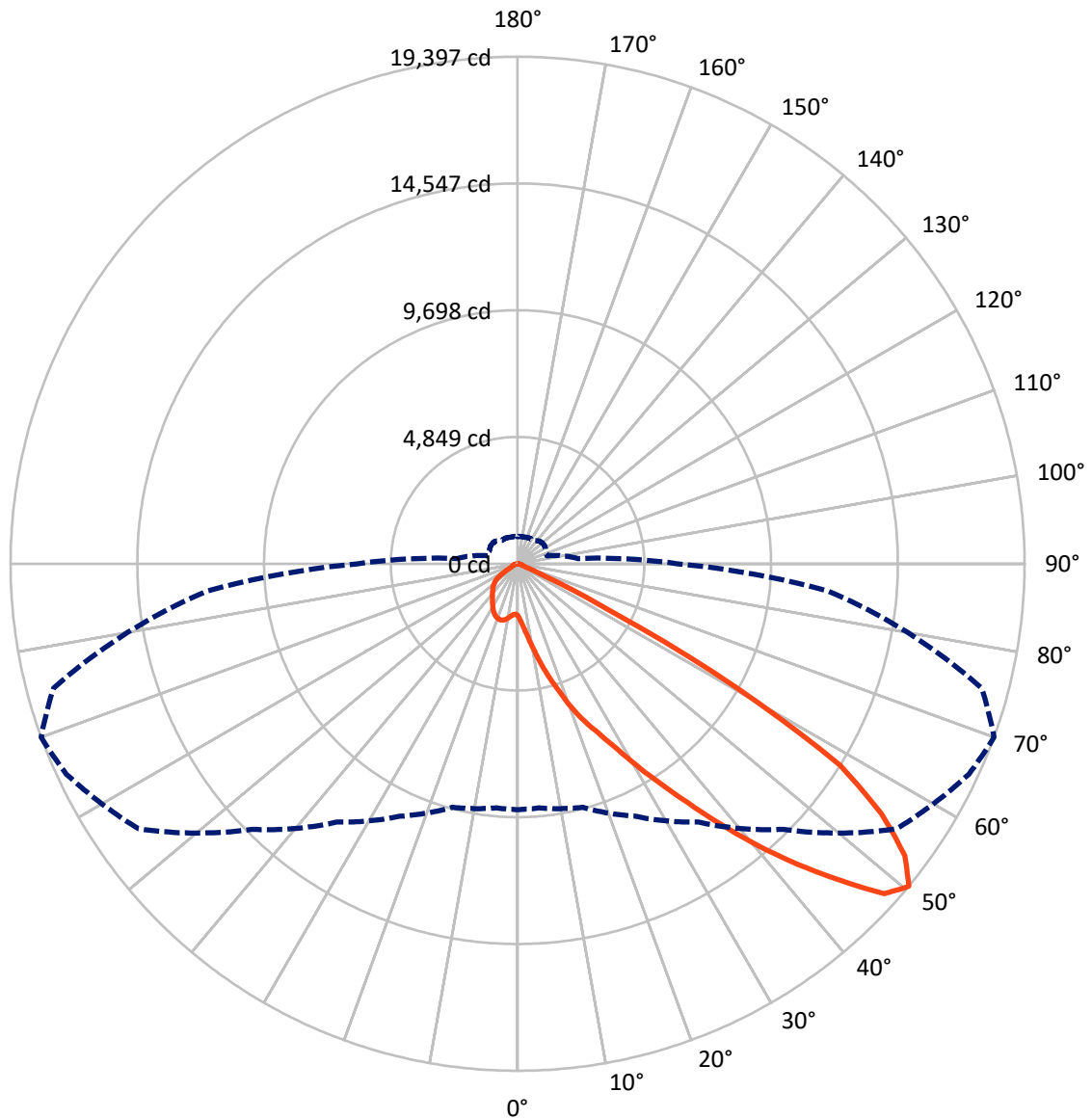
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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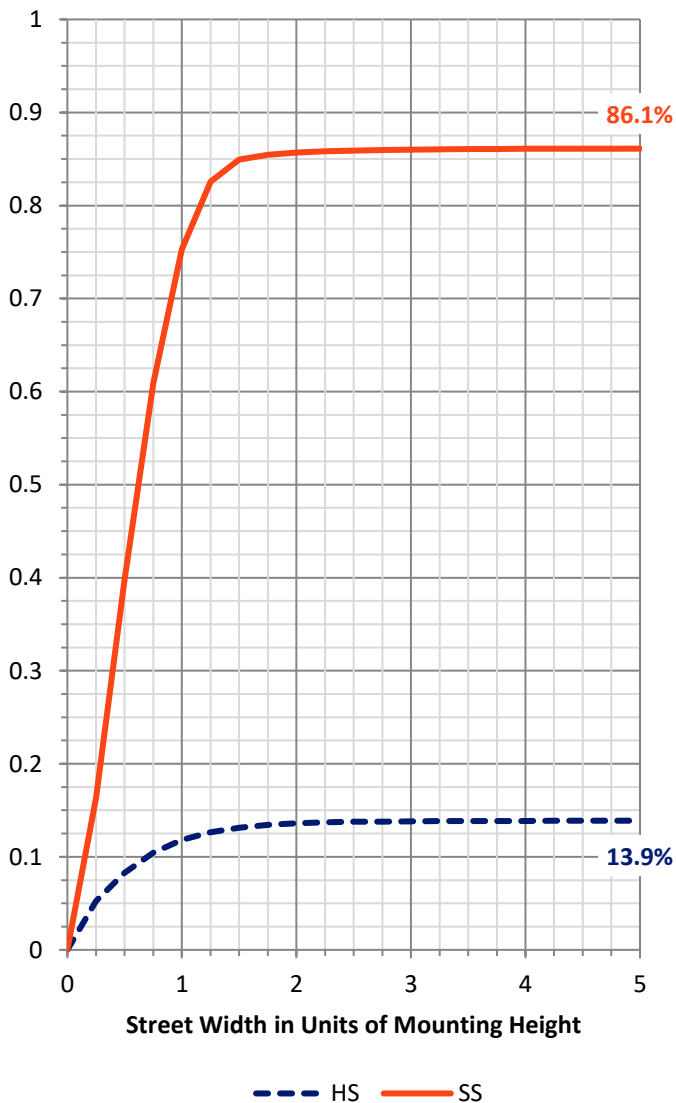
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.5	0.0	2679.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16506.6	0.0	16506.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	19186.0	0.0	19186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.3
10°-20°	1117.8	5.8
20°-30°	2345.0	12.2
30°-40°	4042.0	21.1
40°-50°	5907.4	30.8
50°-60°	4600.9	24.0
60°-70°	779.5	4.1
70°-80°	107.1	0.6
80°-90°	27.7	0.1
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°	19186.0	100.0
0°-180°	19186.0	100.0

Coefficient of Utilization

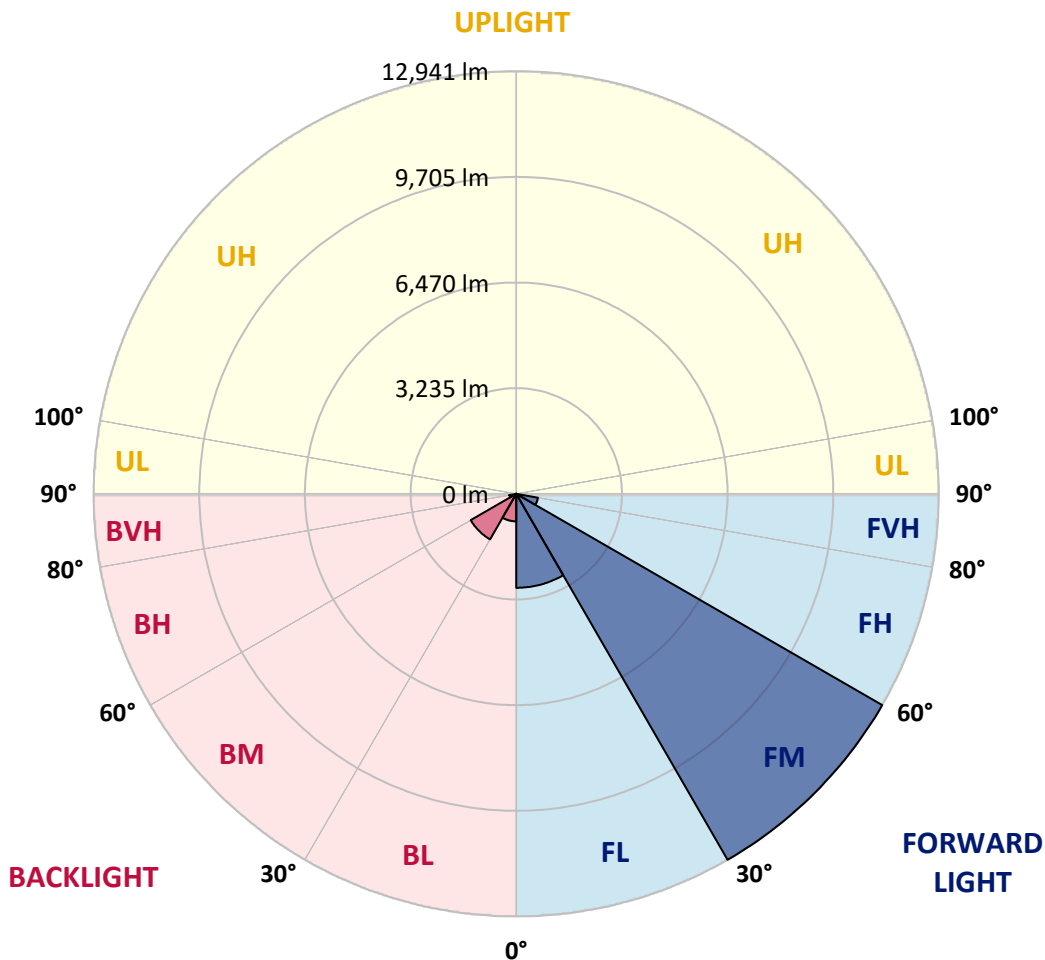


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2878.1	15.0			
FM (30°-60°)	12940.6	67.4			
FH (60°-80°)	675.0	3.5			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	843.2	4.4	B2/1000		
BM (30°-60°)	1609.7	8.4	B2/2500		
BH (60°-80°)	211.6	1.1	B1/500		G1/500
BVH (80°-90°)	14.9	0.1			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3
2.5°	2602.4	2583.5	2542.5	2466.8	2435.2	2359.5	2315.4	2230.2	2176.6	2116.6	2050.4
5°	3665.4	3567.7	3507.7	3422.6	3173.4	3018.8	2763.3	2545.6	2444.7	2334.3	2182.9
7.5°	4763.2	4700.1	4618.1	4435.1	4264.8	3943.0	3504.6	3025.1	2820.1	2630.8	2331.1
10°	5671.7	5495.0	5485.6	5349.9	5163.8	4779.0	4252.2	3656.0	3290.1	3012.5	2542.5
12.5°	6305.7	6144.8	6217.4	6201.6	6028.1	5674.8	5066.0	4277.4	3895.7	3463.6	2760.1
15°	6883.0	6816.7	6794.6	6775.7	6706.3	6444.5	5898.8	5034.5	4482.4	3962.0	3006.2
17.5°	7447.6	7277.3	7359.3	7375.1	7368.8	7132.2	6621.2	5753.7	5103.9	4488.8	3264.8
20°	7949.2	7964.9	7854.5	7832.5	7813.5	7804.1	7305.7	6466.6	5867.2	5040.8	3602.4
22.5°	8592.7	8482.3	8580.1	8517.0	8393.9	8318.2	7936.5	7097.5	6529.7	5706.4	3946.2
25°	9352.9	9441.2	9210.9	9185.7	9050.1	8788.2	8444.4	7804.1	7166.9	6324.6	4318.4
27.5°	10289.8	10135.2	10075.3	9936.5	9690.4	9580.0	9176.2	8532.7	7936.5	6974.4	4678.0
30°	11094.1	11053.1	10753.5	10589.4	10374.9	10371.8	9807.1	9520.1	8939.7	7993.3	5173.3
32.5°	11750.3	11570.5	11460.0	11346.5	11173.0	11220.3	10744.0	10592.6	10009.0	8939.7	5756.8
35°	12188.7	12059.4	11993.1	11819.7	11769.2	11980.5	11781.8	11718.7	11239.2	10270.8	6441.3
37.5°	12327.5	12368.5	12355.9	12138.3	12245.5	12816.5	13072.0	12907.9	12655.6	11674.6	7182.6
40°	12450.5	12478.9	12415.8	12671.4	12977.3	13627.1	14551.4	14280.1	14185.5	13097.2	8214.1
42.5°	12519.9	12497.9	12497.9	12939.5	13403.2	14709.1	15980.3	15800.5	15728.0	14611.3	9406.5
45°	12220.3	12005.8	12236.0	12835.4	13769.1	15242.2	17122.3	17371.5	17267.4	16412.5	10800.8
47.5°	11100.4	11232.9	11362.3	12163.5	13324.3	15078.2	17822.5	18671.1	18863.5	17926.6	11715.6
50°	9406.5	9378.1	9646.3	10655.7	12065.7	14371.6	17686.9	19046.5	19396.6	18380.9	11908.0
52.5°	6842.0	7050.2	7340.4	8343.5	10015.3	12542.0	15936.2	18078.0	18544.9	17822.5	11781.8
55°	3984.0	3753.8	4406.7	5255.3	6832.5	9460.1	13472.6	16024.5	16888.8	16806.8	11144.6
57.5°	1596.1	1545.7	1769.6	2384.8	3564.5	5864.1	9797.7	13166.6	14551.4	15393.6	9794.5
60°	700.3	684.5	804.4	971.6	1457.3	2703.3	5359.4	8188.9	9633.6	10756.6	6741.0
62.5°	504.7	498.4	558.3	618.3	769.7	1176.6	2252.3	3299.5	4113.4	4968.2	3018.8
65°	406.9	422.7	463.7	495.2	567.8	653.0	794.9	917.9	1126.1	1167.1	665.6
67.5°	331.2	343.8	381.7	416.4	429.0	353.3	365.9	321.8	321.8	287.1	230.3
70°	242.9	246.0	290.2	331.2	265.0	141.9	249.2	249.2	224.0	214.5	195.6
72.5°	179.8	183.0	217.7	205.0	104.1	88.3	183.0	201.9	183.0	173.5	157.7
75°	132.5	135.6	113.6	47.3	44.2	56.8	107.3	138.8	132.5	129.3	119.9
77.5°	25.2	18.9	15.8	22.1	31.5	47.3	69.4	85.2	88.3	94.6	88.3
80°	3.2	3.2	9.5	18.9	34.7	50.5	72.6	82.0	85.2	88.3	82.0
82.5°	0.0	3.2	9.5	18.9	34.7	47.3	63.1	72.6	78.9	82.0	78.9
85°	0.0	3.2	6.3	15.8	28.4	34.7	31.5	22.1	18.9	22.1	15.8
87.5°	0.0	0.0	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3	6.3
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°	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3
2.5°	2012.5	1999.9	1955.7	1908.4	1867.4	1886.3	1867.4	1851.7	1858.0	1851.7	1845.3
5°	2122.9	2066.2	1971.5	1930.5	1895.8	1892.7	1883.2	1880.0	1883.2	1883.2	1854.8
7.5°	2227.0	2135.6	2034.6	1990.4	1949.4	1952.6	1930.5	1930.5	1927.4	1911.6	1905.3
10°	2384.8	2261.7	2132.4	2053.5	2003.1	1993.6	1971.5	1949.4	1949.4	1949.4	1917.9
12.5°	2558.2	2403.7	2227.0	2135.6	2075.6	2028.3	1993.6	1987.3	1952.6	1946.3	1930.5
15°	2709.7	2514.1	2290.1	2163.9	2088.2	2025.1	1971.5	1936.8	1921.0	1911.6	1899.0
17.5°	2857.9	2608.7	2324.8	2163.9	2081.9	2009.4	1952.6	1921.0	1883.2	1889.5	1864.3
20°	3056.6	2709.7	2334.3	2122.9	2022.0	1952.6	1876.9	1861.1	1839.0	1820.1	1826.4
22.5°	3249.1	2782.2	2305.9	2072.5	1927.4	1845.3	1807.5	1788.6	1779.1	1763.3	1741.2
25°	3422.6	2861.1	2261.7	1981.0	1826.4	1766.5	1731.8	1728.6	1706.5	1706.5	1665.5
27.5°	3599.2	2889.5	2186.0	1873.7	1738.1	1703.4	1687.6	1681.3	1671.8	1649.8	1621.4
30°	3801.1	2898.9	2075.6	1763.3	1659.2	1621.4	1643.5	1659.2	1618.2	1577.2	1589.8
32.5°	3968.3	2876.8	1943.1	1659.2	1602.5	1583.5	1627.7	1643.5	1596.1	1552.0	1529.9
35°	4170.2	2823.2	1813.8	1577.2	1545.7	1583.5	1621.4	1621.4	1526.7	1473.1	1460.5
37.5°	4476.1	2763.3	1693.9	1507.8	1485.7	1564.6	1615.1	1580.4	1432.1	1365.9	1350.1
40°	4804.2	2725.4	1577.2	1438.4	1454.2	1533.1	1561.4	1454.2	1302.8	1261.8	1249.2
42.5°	5280.5	2649.7	1473.1	1378.5	1425.8	1488.9	1488.9	1296.5	1239.7	1217.6	1214.5
45°	5873.6	2596.1	1381.6	1328.0	1384.8	1400.6	1350.1	1214.5	1173.4	1167.1	1170.3
47.5°	6163.8	2492.0	1287.0	1268.1	1309.1	1312.2	1179.8	1148.2	1113.5	1104.1	1097.7
50°	6119.6	2305.9	1164.0	1189.2	1246.0	1214.5	1075.7	1082.0	1050.4	1047.3	1031.5
52.5°	5810.5	2012.5	1041.0	1100.9	1164.0	1072.5	990.5	984.2	984.2	943.2	927.4
55°	5151.2	1621.4	892.7	968.4	1044.1	902.2	880.1	873.8	858.0	820.2	810.7
57.5°	4078.7	1189.2	671.9	753.9	886.4	766.5	763.4	735.0	694.0	665.6	665.6
60°	2425.8	684.5	422.7	460.5	586.7	621.4	690.8	678.2	608.8	564.6	552.0
62.5°	1107.2	353.3	268.1	274.4	315.4	403.8	542.6	627.7	529.9	454.2	447.9
65°	372.2	261.8	220.8	211.3	217.7	242.9	324.9	444.8	422.7	350.1	337.5
67.5°	227.1	233.4	208.2	192.4	192.4	189.3	186.1	201.9	249.2	242.9	246.0
70°	195.6	214.5	192.4	173.5	167.2	157.7	132.5	110.4	94.6	110.4	116.7
72.5°	157.7	170.3	164.0	148.3	132.5	119.9	94.6	72.6	53.6	47.3	47.3
75°	116.7	126.2	132.5	113.6	100.9	85.2	69.4	47.3	28.4	18.9	18.9
77.5°	85.2	94.6	97.8	88.3	75.7	59.9	44.2	31.5	15.8	6.3	6.3
80°	72.6	85.2	94.6	88.3	78.9	56.8	41.0	22.1	12.6	3.2	3.2
82.5°	69.4	85.2	94.6	85.2	75.7	53.6	41.0	25.2	9.5	3.2	3.2
85°	15.8	22.1	28.4	34.7	41.0	41.0	31.5	18.9	9.5	3.2	3.2
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	3.2	3.2	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)