

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: P527017

Luminaire Tested: **GALN-SA2A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4941 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

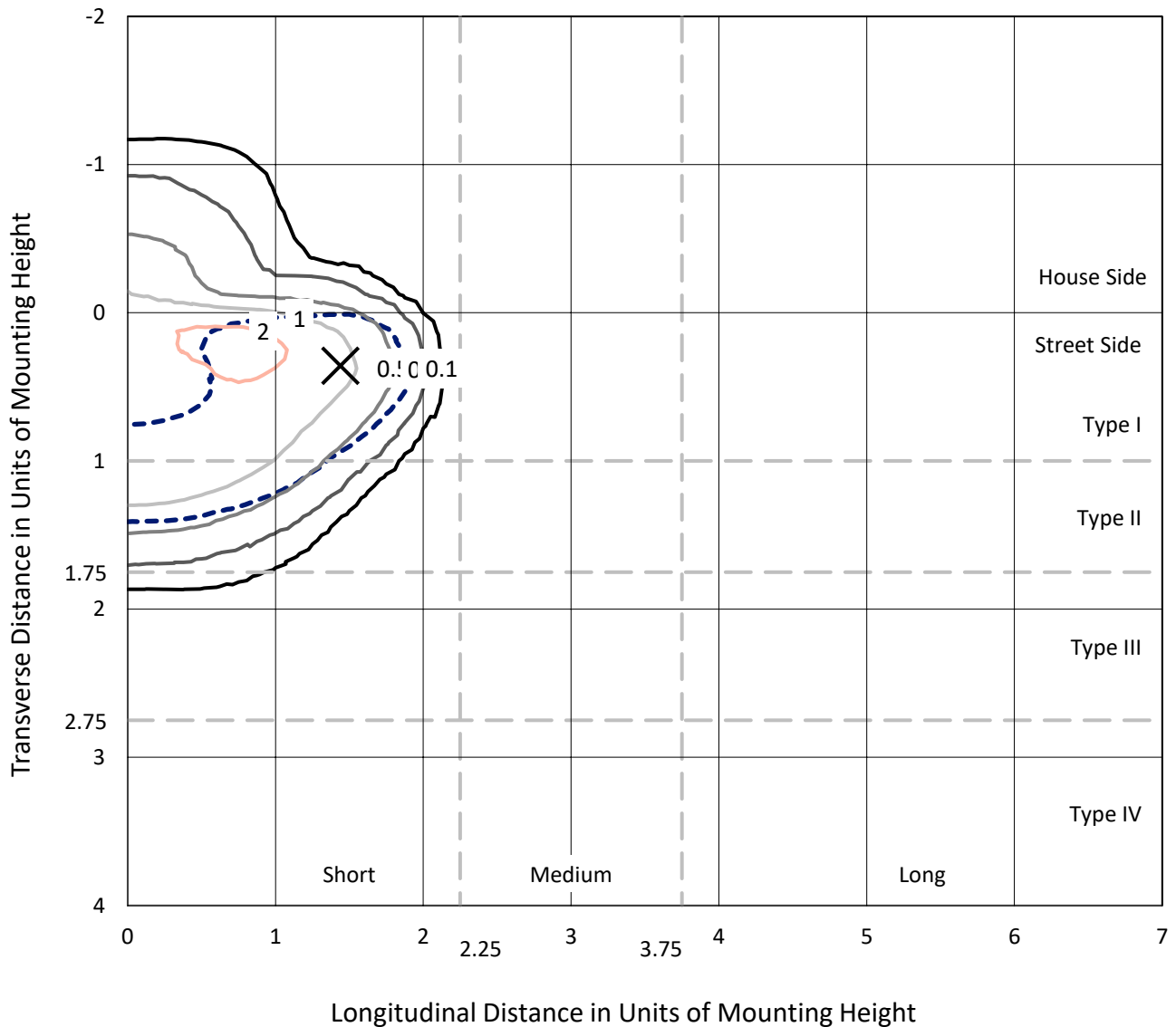
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527017
 CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

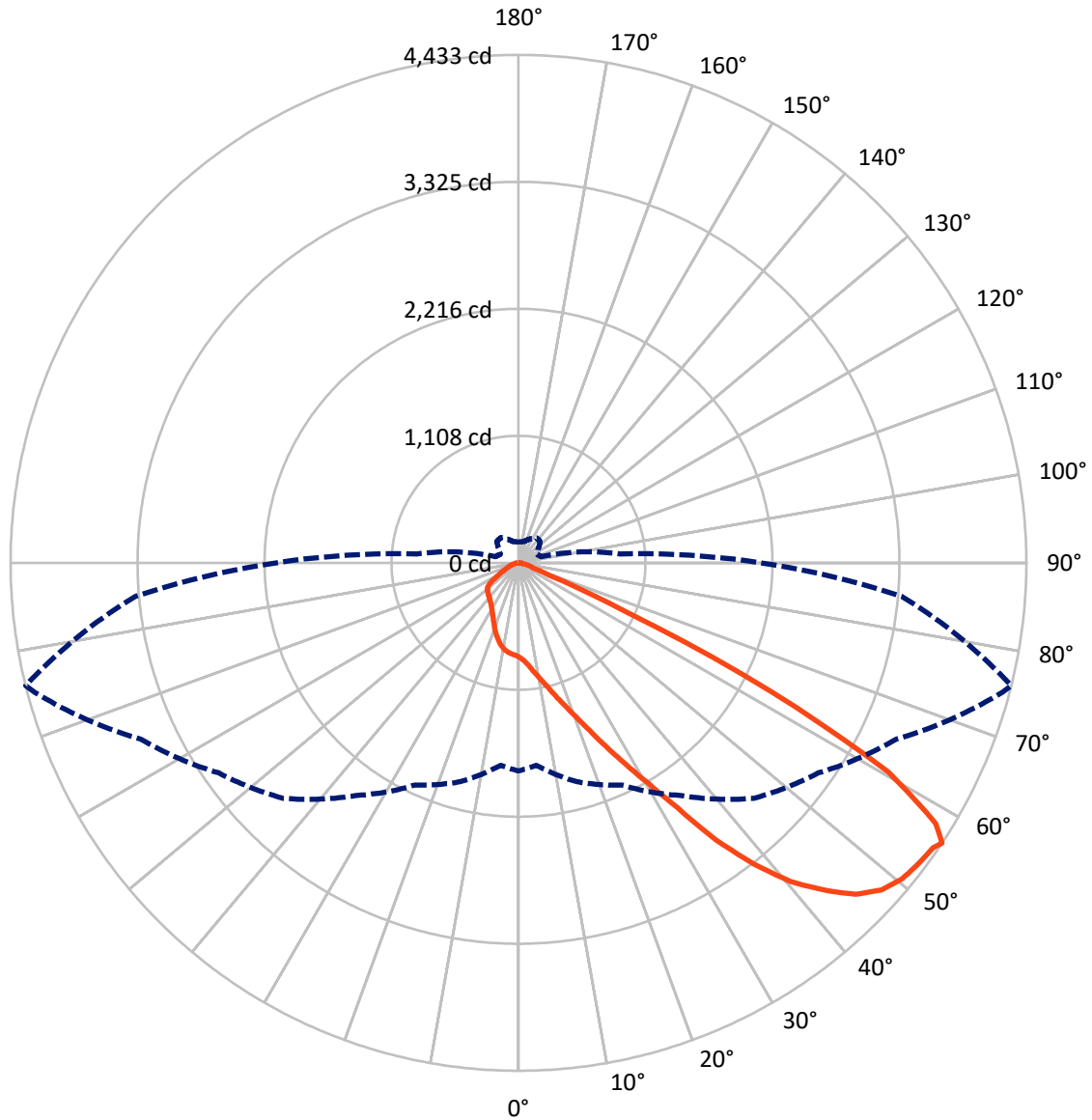
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

REPORT NUMBER: P527017
CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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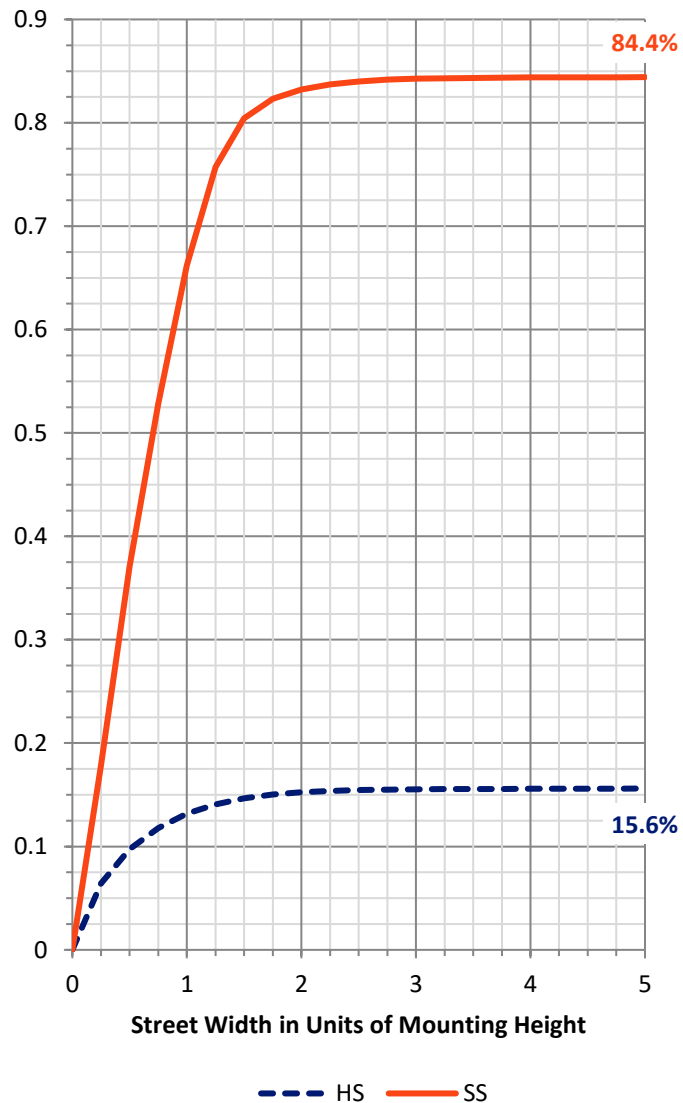
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.2	0.0	776.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4164.8	0.0	4164.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	4941.0	0.0	4941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.7
10°-20°	266.2	5.4
20°-30°	482.6	9.8
30°-40°	832.3	16.8
40°-50°	1352.1	27.4
50°-60°	1425.2	28.8
60°-70°	435.4	8.8
70°-80°	55.8	1.1
80°-90°	8.5	0.2
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°	4941.0	100.0
0°-180°	4941.0	100.0

Coefficient of Utilization

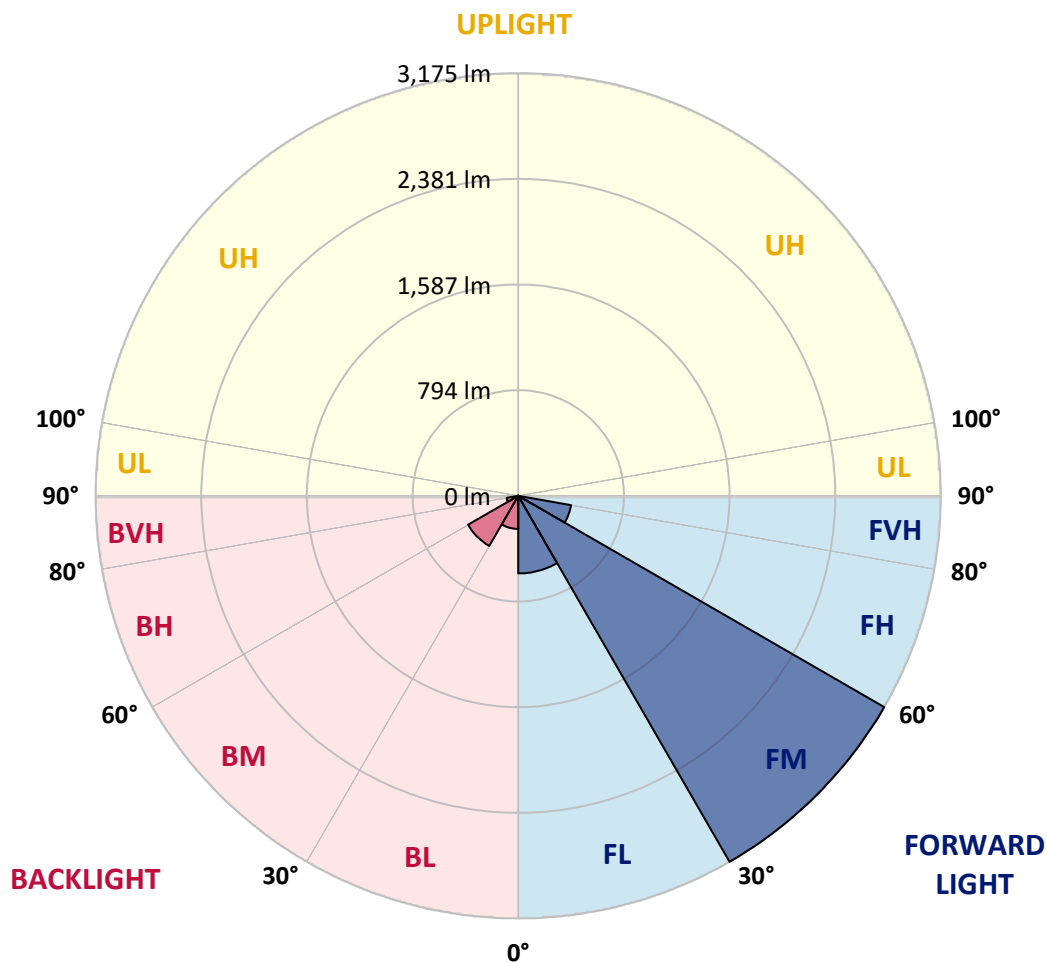


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 CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.3	11.8			
FM (30°-60°)	3174.6	64.3			
FH (60°-80°)	402.7	8.2			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	248.3	5.0	B1/500		
BM (30°-60°)	435.0	8.8	B1/1000		
BH (60°-80°)	88.5	1.8	B0/110		G0/110
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CATALOG NUMBER: GALN-SA2A-730-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4
2.5°	947.2	925.4	926.3	924.4	921.7	911.7	881.6	877.1	857.0	851.6	833.4
5°	1061.1	1041.9	1052.9	1036.5	1021.0	1011.9	962.7	939.9	908.1	896.2	870.7
7.5°	1132.1	1123.0	1119.4	1120.3	1105.7	1082.9	1061.1	1011.0	968.2	959.1	905.3
10°	1166.7	1161.2	1166.7	1164.0	1170.4	1173.1	1134.8	1104.8	1041.9	1026.5	942.7
12.5°	1174.9	1185.8	1190.4	1202.2	1217.7	1244.1	1241.4	1200.4	1116.6	1106.6	1000.0
15°	1194.9	1204.1	1199.5	1218.6	1247.8	1292.4	1316.1	1309.7	1219.5	1201.3	1066.5
17.5°	1213.2	1196.8	1212.3	1250.5	1279.6	1348.0	1405.3	1431.8	1331.6	1310.6	1127.5
20°	1237.8	1233.2	1230.5	1249.6	1301.5	1392.6	1506.4	1554.7	1457.3	1435.4	1215.0
22.5°	1312.4	1313.3	1311.5	1283.3	1320.6	1423.6	1594.8	1714.1	1607.5	1589.3	1314.3
25°	1410.8	1399.0	1389.9	1367.1	1362.5	1451.8	1684.0	1909.0	1787.9	1775.1	1421.7
27.5°	1514.6	1514.6	1487.3	1466.4	1437.2	1521.9	1766.0	2098.4	2005.5	1988.2	1515.5
30°	1627.6	1633.9	1630.3	1585.7	1567.5	1598.4	1849.8	2340.7	2255.1	2233.2	1670.4
32.5°	1794.2	1780.6	1796.1	1758.7	1705.0	1732.3	1981.9	2557.5	2579.3	2548.4	1873.5
35°	2014.7	2006.5	1996.4	1935.4	1871.7	1893.5	2168.6	2824.3	2986.5	2971.0	2078.4
37.5°	2212.3	2207.7	2199.5	2157.6	2083.9	2110.3	2380.8	3102.1	3383.6	3332.6	2368.0
40°	2419.9	2444.5	2418.1	2380.8	2313.4	2371.7	2630.3	3267.0	3717.8	3655.9	2589.4
42.5°	2701.4	2682.3	2694.1	2625.8	2589.4	2653.1	2880.8	3431.8	3977.4	3903.6	2824.3
45°	3001.0	3001.9	2970.1	2948.2	2853.5	2922.7	3034.7	3522.9	4184.1	4126.8	3001.9
47.5°	3193.2	3192.3	3226.9	3261.5	3164.1	3095.8	3139.5	3609.4	4290.7	4264.3	3066.6
50°	3163.1	3172.3	3216.9	3346.2	3397.2	3305.2	3237.8	3583.9	4339.0	4336.2	3122.2
52.5°	2751.5	2781.5	2856.2	3042.9	3299.8	3413.6	3340.8	3631.3	4362.6	4367.2	3205.0
55°	2094.8	2111.2	2253.3	2480.1	2764.2	3154.0	3299.8	3668.6	4380.9	4389.1	3305.2
56°	1817.0	1773.3	1978.2	2139.4	2479.2	2905.4	3195.9	3639.5	4369.9	4432.8	3355.3
57.5°	1371.6	1342.5	1508.3	1709.5	2036.5	2486.4	2873.5	3502.0	4296.2	4295.3	3283.4
60°	834.3	805.1	932.6	1051.0	1234.1	1531.0	1941.8	2788.8	3632.2	3708.7	2658.6
62.5°	496.4	514.6	640.3	712.2	771.4	802.4	1004.6	1657.6	2423.6	2478.2	1649.4
65°	330.6	337.0	431.7	550.1	576.5	459.0	408.9	671.2	1051.0	1017.3	680.4
67.5°	204.0	218.6	289.6	413.5	458.1	335.2	194.0	250.5	289.6	289.6	196.7
70°	123.9	131.2	193.1	281.4	314.2	215.9	141.2	141.2	139.3	136.6	117.5
72.5°	59.2	63.8	98.4	144.8	147.5	113.8	109.3	119.3	116.6	115.7	97.5
75°	25.5	27.3	34.6	45.5	51.9	48.3	66.5	85.6	88.3	85.6	70.1
77.5°	8.2	9.1	12.8	16.4	17.3	20.9	28.2	35.5	41.0	38.3	34.6
80°	0.9	1.8	3.6	8.2	12.8	16.4	20.9	23.7	26.4	26.4	24.6
82.5°	0.9	0.9	3.6	7.3	11.8	15.5	20.0	22.8	26.4	27.3	25.5
85°	0.0	0.9	2.7	6.4	10.0	10.0	9.1	9.1	6.4	6.4	6.4
87.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4	822.4
2.5°	829.7	827.9	803.3	787.8	779.6	763.2	753.2	745.9	740.5	734.1	735.0
5°	840.7	834.3	793.3	765.1	731.4	713.1	697.7	684.9	676.7	674.9	671.2
7.5°	871.6	837.9	776.0	725.0	682.2	664.0	650.3	642.1	645.7	637.5	643.9
10°	895.3	845.2	755.0	681.3	638.5	624.8	617.5	623.9	633.0	629.4	624.8
12.5°	924.4	852.5	721.3	639.4	599.3	589.3	602.0	613.9	632.1	639.4	630.3
15°	957.2	860.7	678.5	591.1	565.6	573.8	595.7	616.6	634.8	643.9	649.4
17.5°	997.3	858.0	636.6	552.8	533.7	557.4	583.8	602.9	630.3	643.9	640.3
20°	1034.6	848.8	590.2	514.6	515.5	537.4	559.2	590.2	604.8	623.0	616.6
22.5°	1070.2	832.5	541.9	488.2	488.2	521.9	532.8	552.8	565.6	574.7	573.8
25°	1120.3	801.5	501.8	462.7	473.6	495.5	504.6	510.9	505.5	512.8	513.7
27.5°	1155.8	769.6	469.1	439.9	459.9	476.3	473.6	470.0	457.2	447.2	453.6
30°	1194.0	732.3	440.8	424.4	435.4	449.9	439.0	428.1	408.0	391.6	392.5
32.5°	1248.7	715.0	416.2	406.2	420.8	422.6	410.8	394.4	374.3	358.8	357.9
35°	1350.7	704.0	395.3	394.4	397.1	398.0	386.2	366.1	357.9	345.2	349.7
37.5°	1452.7	698.6	380.7	377.1	376.2	377.1	363.4	344.3	359.8	358.8	360.7
40°	1582.9	723.2	359.8	355.2	356.1	356.1	338.8	333.3	360.7	363.4	364.3
42.5°	1715.0	754.1	346.1	331.5	335.2	335.2	326.1	319.7	338.8	320.6	317.9
45°	1829.8	799.7	331.5	307.8	317.0	321.5	318.8	307.8	296.0	265.0	265.0
47.5°	1867.1	839.7	314.2	285.1	292.4	312.4	304.2	281.4	260.5	235.0	233.2
50°	1932.7	883.5	300.6	258.7	274.1	298.7	290.5	267.8	244.1	225.9	226.8
52.5°	2000.1	933.6	275.1	227.7	246.8	287.8	287.8	262.3	225.9	213.1	211.3
55°	2101.2	931.7	229.5	186.7	220.4	271.4	276.0	235.0	202.2	192.2	192.2
56°	2115.7	889.8	206.7	174.9	208.6	266.9	267.8	227.7	193.1	182.2	182.2
57.5°	2006.5	803.3	181.2	160.3	194.0	258.7	259.6	221.3	185.8	170.3	168.5
60°	1543.8	543.7	151.2	143.0	175.8	233.2	237.7	201.3	163.0	151.2	150.3
62.5°	871.6	301.5	133.0	129.3	151.2	198.6	212.2	175.8	138.4	132.1	133.9
65°	398.0	165.8	112.0	104.7	122.0	153.0	171.2	144.8	113.8	106.6	106.6
67.5°	145.7	112.9	95.6	82.9	85.6	99.3	111.1	93.8	75.6	64.7	67.4
70°	103.8	94.7	83.8	72.0	66.5	64.7	63.8	52.8	37.3	29.1	31.0
72.5°	83.8	78.3	70.1	61.0	51.9	43.7	37.3	27.3	17.3	11.8	10.9
75°	60.1	57.4	51.0	43.7	36.4	31.0	25.5	17.3	9.1	4.6	4.6
77.5°	31.0	31.0	30.1	27.3	22.8	18.2	14.6	10.0	5.5	1.8	1.8
80°	23.7	25.5	26.4	23.7	20.9	16.4	11.8	7.3	3.6	0.9	0.9
82.5°	22.8	26.4	28.2	24.6	20.9	15.5	11.8	7.3	3.6	0.9	0.9
85°	5.5	5.5	8.2	9.1	11.8	12.8	10.0	6.4	2.7	0.9	0.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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)