

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: P452333

Luminaire Tested: **GALN-SA3B-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15436 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

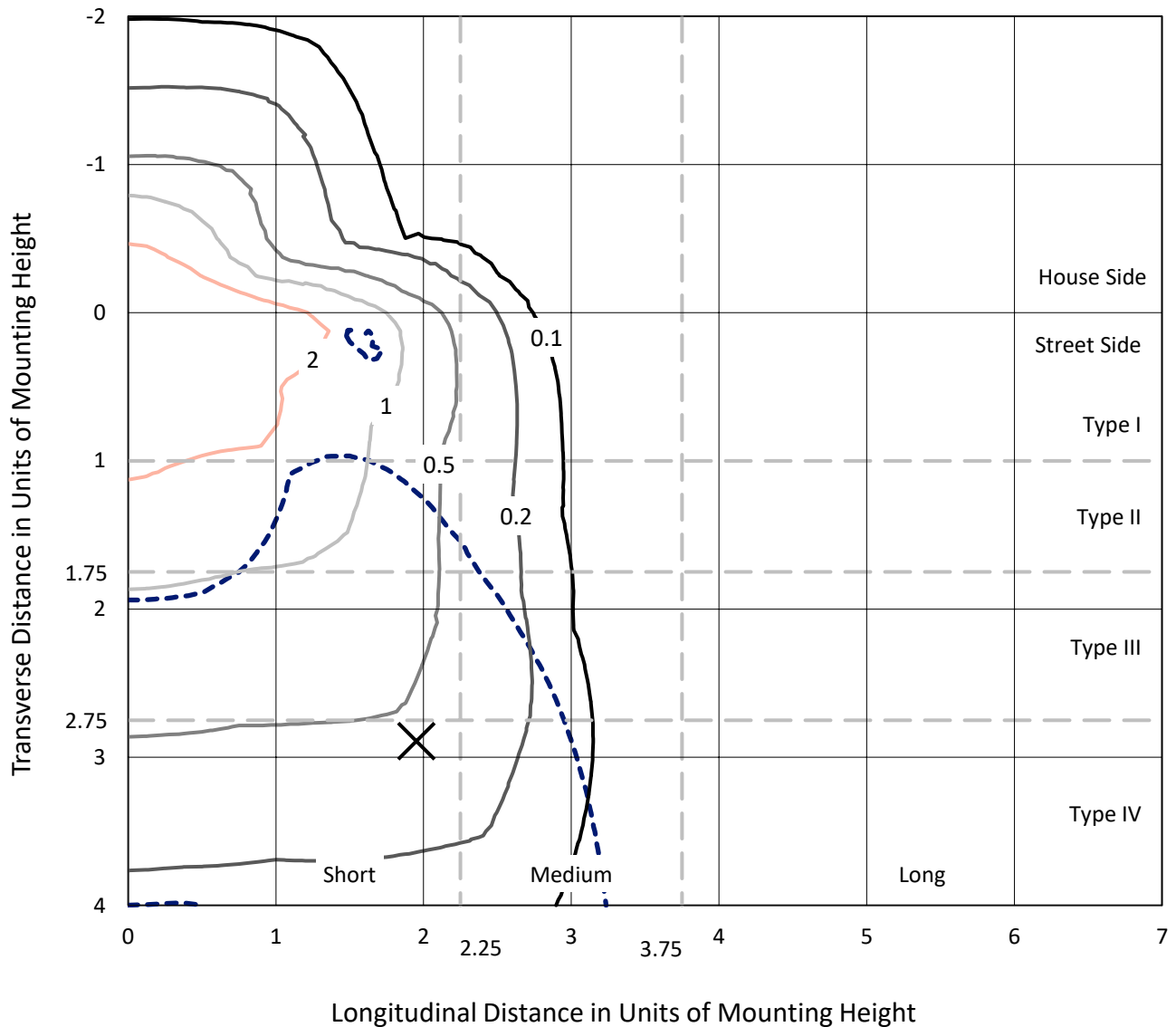
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452333
 CATALOG NUMBER: GALN-SA3B-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

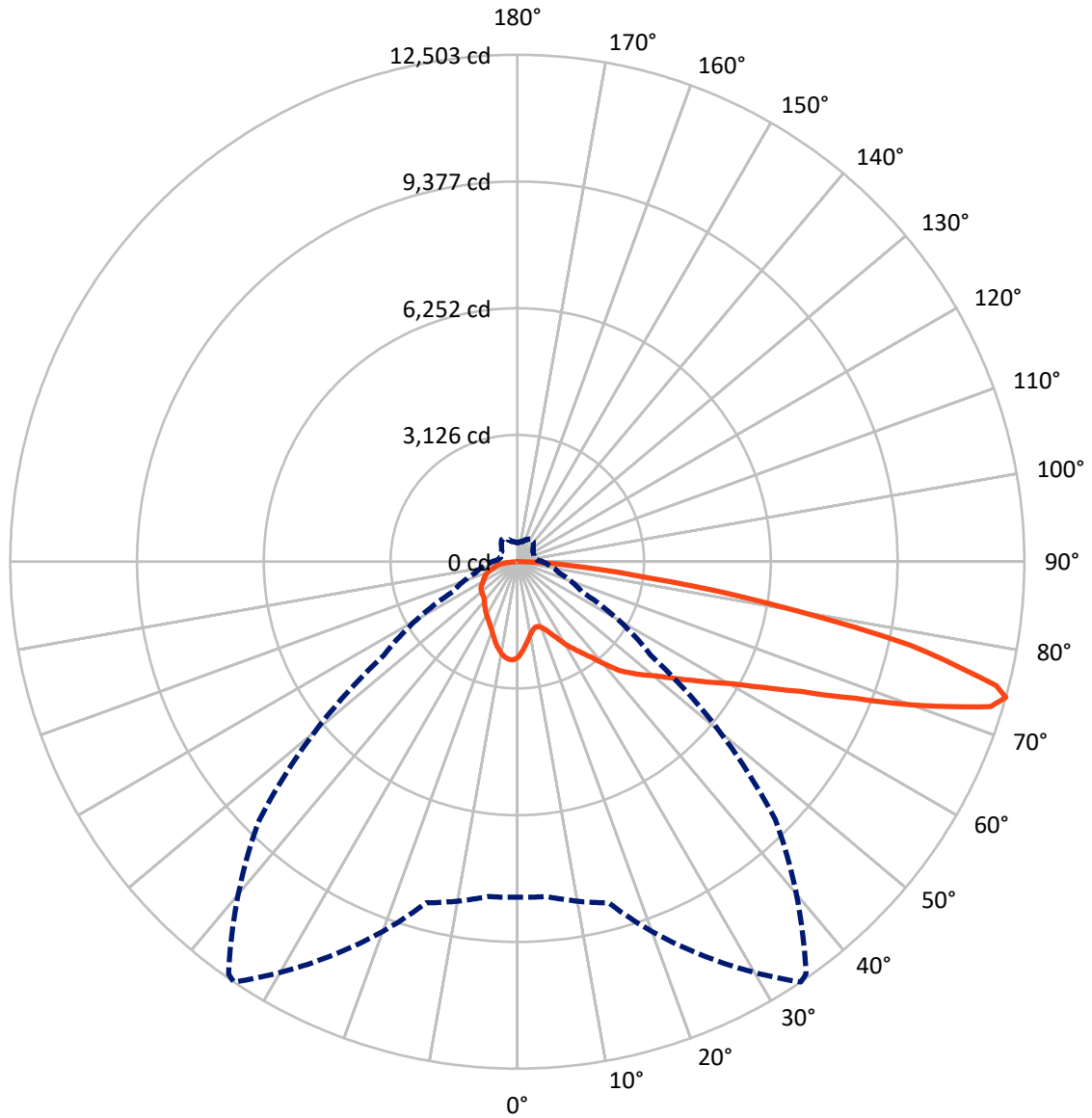
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P452333
CATALOG NUMBER: GALN-SA3B-730-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P452333

CATALOG NUMBER: GALN-SA3B-730-U-T4FT

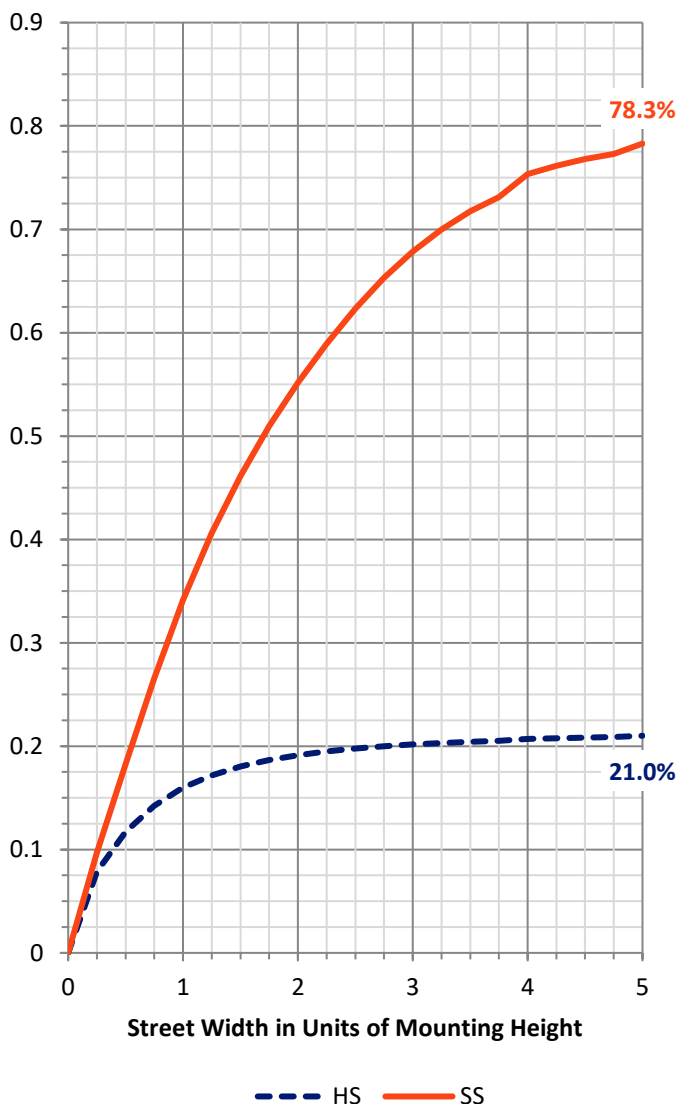
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3284.9	0.0	3284.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	12151.1	0.0	12151.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	15436.0	0.0	15436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	1.4
10°-20°	586.7	3.8
20°-30°	967.4	6.3
30°-40°	1449.0	9.4
40°-50°	2106.5	13.6
50°-60°	2942.3	19.1
60°-70°	3683.6	23.9
70°-80°	3046.0	19.7
80°-90°	440.1	2.9
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°	15436.0	100.0
0°-180°	15436.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452333

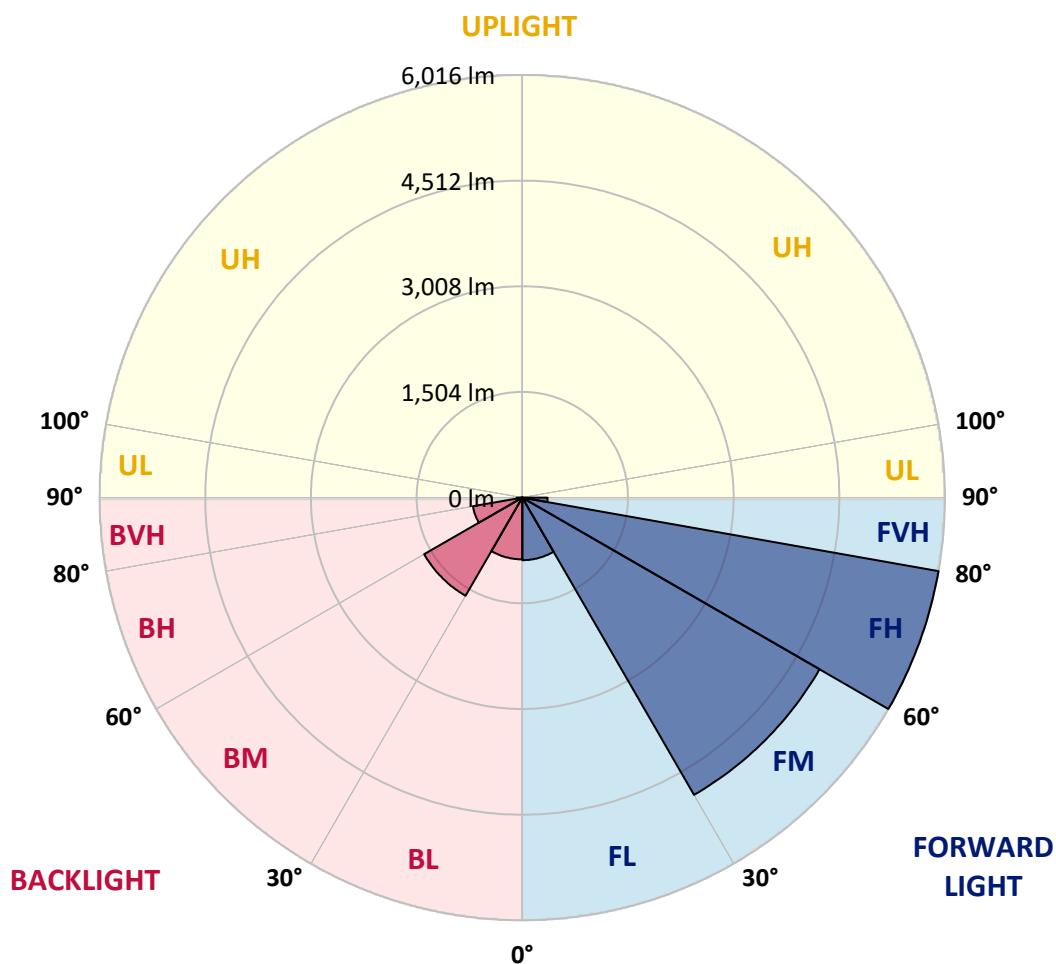
CATALOG NUMBER: GALN-SA3B-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.8	5.8			
FM (30°-60°)	4884.6	31.6			
FH (60°-80°)	6016.1	39.0			G3/7500
FVH (80°-90°)	360.6	2.3			G3/500
BL (0°-30°)	878.7	5.7	B2/1000		
BM (30°-60°)	1613.2	10.5	B2/2500		
BH (60°-80°)	713.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	79.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P452333

CATALOG NUMBER: GALN-SA3B-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8
2.5°	2178.0	2189.2	2195.2	2216.5	2221.7	2228.5	2246.5	2270.4	2301.2	2328.6	2352.5
5°	1996.8	2013.9	2024.1	2042.9	2079.7	2083.1	2131.0	2185.7	2248.2	2306.3	2354.2
7.5°	1824.9	1843.7	1852.2	1886.4	1935.2	1942.9	2013.0	2099.4	2203.7	2291.8	2365.3
10°	1695.7	1705.2	1724.0	1749.6	1807.8	1812.9	1904.4	2019.8	2155.0	2284.9	2384.1
12.5°	1625.6	1630.8	1635.0	1662.4	1719.7	1727.4	1823.2	1954.0	2116.5	2290.1	2414.9
15°	1635.9	1637.6	1618.8	1623.9	1670.1	1681.2	1776.1	1910.4	2092.5	2302.9	2461.1
17.5°	1722.3	1716.3	1670.1	1646.1	1678.6	1683.8	1766.7	1893.3	2081.4	2326.8	2509.0
20°	1858.2	1849.7	1770.1	1717.1	1735.9	1740.2	1797.5	1906.1	2092.5	2366.2	2583.4
22.5°	2027.5	2024.1	1903.5	1839.4	1838.6	1838.6	1868.5	1952.3	2125.9	2420.1	2661.2
25°	2264.4	2246.5	2089.1	2006.2	1983.1	1981.4	1977.9	2028.4	2168.6	2477.3	2753.6
27.5°	2507.3	2476.5	2336.2	2208.8	2159.2	2153.2	2131.0	2136.1	2223.4	2542.3	2858.7
30°	2725.3	2705.7	2574.0	2432.9	2373.9	2360.2	2298.6	2270.4	2314.9	2659.5	3026.3
32.5°	2892.1	2880.1	2777.5	2649.2	2562.0	2559.4	2469.7	2446.6	2457.7	2801.4	3217.9
35°	3027.2	3031.5	2979.3	2868.1	2768.1	2753.6	2693.7	2664.6	2632.1	3006.7	3459.1
37.5°	3211.9	3221.3	3217.9	3122.1	2999.8	3003.3	2989.6	2941.7	2855.3	3235.9	3726.7
40°	3415.4	3422.3	3421.4	3384.7	3320.5	3323.9	3318.8	3264.1	3135.0	3527.5	4024.3
42.5°	3696.8	3664.3	3579.6	3616.4	3654.0	3670.3	3705.3	3653.2	3476.2	3838.7	4303.9
45°	4011.5	3949.9	3758.3	3775.5	3914.8	3945.6	4138.9	4067.1	3846.4	4196.2	4633.2
47.5°	4209.9	4149.1	3987.5	3984.1	4168.8	4198.7	4540.8	4514.3	4183.4	4581.9	5035.1
50°	4386.9	4378.3	4196.2	4239.8	4420.2	4464.7	4978.6	4953.8	4519.4	5036.8	5472.9
52.5°	4649.4	4580.1	4434.8	4524.6	4763.1	4821.3	5413.1	5340.4	4828.1	5438.7	5897.9
55°	4767.4	4751.2	4742.6	4820.4	5148.0	5189.9	5835.5	5668.7	5091.5	5779.1	6221.2
57.5°	5083.0	5053.0	5137.7	5190.7	5601.2	5665.3	6276.7	6011.6	5322.4	6049.3	6378.5
60°	5491.7	5475.5	5553.3	5649.1	6107.4	6204.9	6779.6	6304.1	5508.0	6185.2	6292.1
62.5°	6102.3	6100.6	6086.0	6291.3	6824.9	6914.7	7356.8	6588.9	5537.0	6083.5	5845.8
65°	6978.0	6947.2	6820.6	7044.7	7717.7	7822.8	7958.0	6747.9	5361.7	5561.0	4922.2
67.5°	7893.8	7892.1	7789.5	8080.2	8999.5	9108.1	8709.6	6712.9	4875.2	4504.9	3495.8
70°	8653.2	8616.4	8747.2	9522.0	10637.1	10762.8	9367.2	6299.8	3883.2	2975.0	2077.1
72.5°	8835.3	8837.0	9109.0	10633.7	12209.7	12229.4	9604.1	5106.1	2598.8	1641.0	1039.0
74°	8274.4	8288.9	8710.5	10689.3	12503.0	12414.1	8998.7	4013.2	1757.3	1071.5	749.1
75°	7552.6	7461.1	8070.8	10319.0	12198.6	12102.8	8289.7	3220.5	1340.9	856.0	655.9
77.5°	4038.0	4131.2	5071.8	7700.6	9910.2	9799.9	5620.8	1544.4	724.3	596.0	472.0
80°	1437.5	1585.4	2228.5	4029.4	6353.7	6387.9	2682.6	708.1	509.7	439.5	333.5
82.5°	586.6	602.9	956.9	1788.1	3226.5	3257.2	1095.4	420.7	364.3	302.7	199.2
85°	229.2	236.0	423.3	803.8	1376.8	1466.6	378.8	222.3	224.0	173.6	101.8
87.5°	77.0	87.2	173.6	267.7	467.8	458.4	110.3	65.8	80.4	75.3	31.6
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: P452333
 CATALOG NUMBER: GALN-SA3B-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8	2356.8
2.5°	2364.5	2380.7	2391.8	2403.8	2414.9	2418.3	2415.8	2423.5	2424.3	2425.2	2426.0
5°	2378.2	2400.4	2421.8	2433.7	2438.9	2434.6	2420.1	2412.4	2405.5	2400.4	2402.1
7.5°	2397.0	2428.6	2448.3	2453.4	2439.7	2420.1	2384.1	2355.9	2338.0	2326.0	2325.1
10°	2426.0	2456.8	2473.1	2458.5	2420.9	2373.0	2316.6	2263.6	2223.4	2211.4	2210.5
12.5°	2462.8	2497.9	2497.0	2454.3	2388.4	2302.9	2211.4	2149.8	2095.1	2067.7	2078.9
15°	2510.7	2537.2	2512.4	2435.4	2331.1	2214.0	2101.1	2017.3	1955.7	1926.6	1928.3
17.5°	2566.3	2589.4	2523.5	2402.1	2250.7	2100.2	1969.4	1889.9	1841.1	1819.7	1818.0
20°	2635.5	2642.4	2523.5	2343.9	2147.3	1967.7	1842.8	1787.2	1759.9	1748.8	1752.2
22.5°	2709.9	2696.3	2509.8	2261.9	2011.3	1829.1	1745.3	1720.5	1706.9	1705.2	1706.9
25°	2793.7	2755.3	2481.6	2150.7	1869.3	1709.4	1660.7	1665.0	1667.5	1667.5	1673.5
27.5°	2896.4	2819.4	2434.6	2010.4	1703.4	1598.3	1584.6	1614.5	1628.2	1630.8	1635.0
30°	3031.5	2889.5	2356.8	1835.1	1562.3	1498.2	1522.2	1562.3	1577.7	1587.1	1585.4
32.5°	3192.2	2966.5	2251.6	1659.8	1448.6	1428.1	1457.2	1498.2	1515.3	1520.4	1513.6
35°	3381.2	3053.7	2113.1	1495.6	1349.4	1361.4	1395.6	1408.4	1423.8	1423.8	1427.2
37.5°	3584.8	3123.8	1943.7	1345.1	1272.5	1316.1	1340.9	1328.9	1322.0	1313.5	1317.8
40°	3791.7	3176.0	1724.0	1196.3	1195.5	1269.0	1275.9	1241.7	1214.3	1205.8	1201.5
42.5°	3972.1	3208.5	1525.6	1080.9	1122.8	1222.9	1228.0	1173.3	1129.6	1104.0	1095.4
45°	4185.1	3246.1	1331.5	985.1	1055.2	1186.1	1198.9	1125.4	1061.2	1007.4	993.7
47.5°	4476.7	3331.6	1178.4	910.7	1006.5	1163.0	1181.0	1086.0	1001.4	931.2	920.1
50°	4805.9	3448.8	1059.5	860.3	968.9	1142.5	1164.7	1045.8	945.8	868.0	859.4
52.5°	5107.8	3512.1	956.9	815.0	932.1	1104.8	1143.3	1016.8	891.1	804.7	797.0
55°	5272.8	3409.5	856.0	770.5	881.7	1056.1	1113.4	976.6	838.0	771.3	760.2
57.5°	5295.0	3197.4	764.5	722.6	828.6	996.2	1057.8	927.8	803.8	748.2	738.8
60°	5123.2	2881.0	693.5	683.3	774.8	928.7	995.4	885.1	768.8	722.6	713.2
62.5°	4695.6	2537.2	643.9	647.3	720.0	857.7	949.2	844.0	735.4	694.4	685.8
65°	3960.2	2094.2	596.0	610.6	671.3	802.1	907.3	809.8	702.1	673.0	665.3
67.5°	2751.0	1511.9	556.7	572.1	625.1	745.7	858.6	773.0	664.4	649.1	637.1
70°	1523.0	930.4	510.5	528.5	577.2	682.4	803.8	717.5	609.7	602.9	585.8
72.5°	800.4	592.6	458.4	478.0	512.2	601.2	720.0	656.7	555.8	526.8	504.5
74°	625.1	485.7	423.3	443.8	466.9	553.3	670.4	613.1	517.4	483.2	466.1
75°	544.7	432.7	393.4	419.9	440.4	520.8	632.0	582.4	496.0	463.5	448.1
77.5°	384.8	324.1	321.5	353.2	364.3	456.6	569.5	530.2	442.1	407.9	393.4
80°	270.2	242.9	254.8	274.5	289.9	403.6	528.5	458.4	362.6	322.4	317.3
82.5°	176.2	159.1	182.1	200.1	205.2	297.6	426.7	348.0	264.2	214.6	199.2
85°	81.2	79.5	104.3	101.8	100.9	145.4	253.1	203.5	152.2	113.7	106.9
87.5°	20.5	19.7	25.7	21.4	25.7	22.2	23.1	6.0	0.9	0.0	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)