

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: P652310

Luminaire Tested: **GALN-SA3B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652310
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-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 14254.1 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

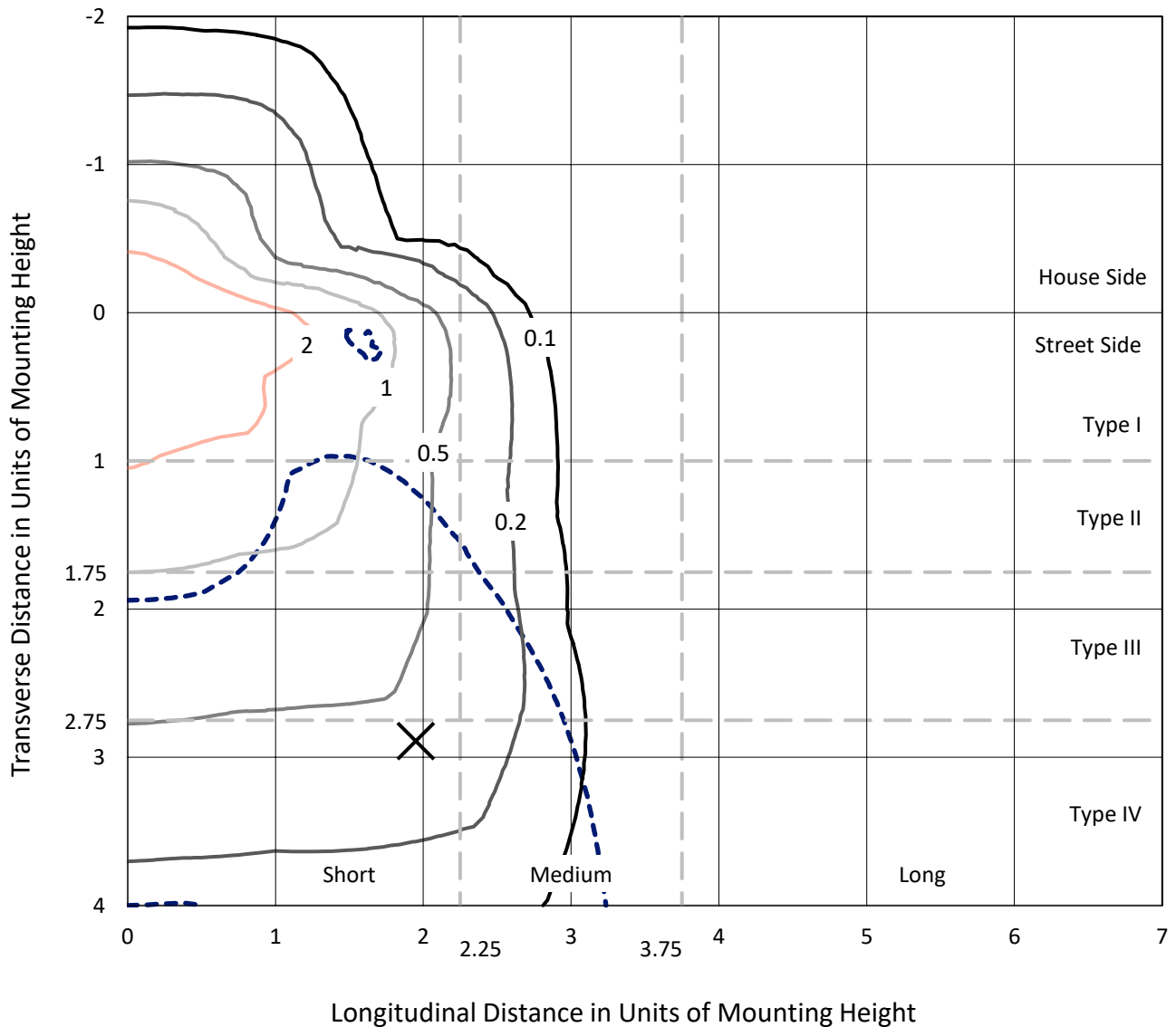
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

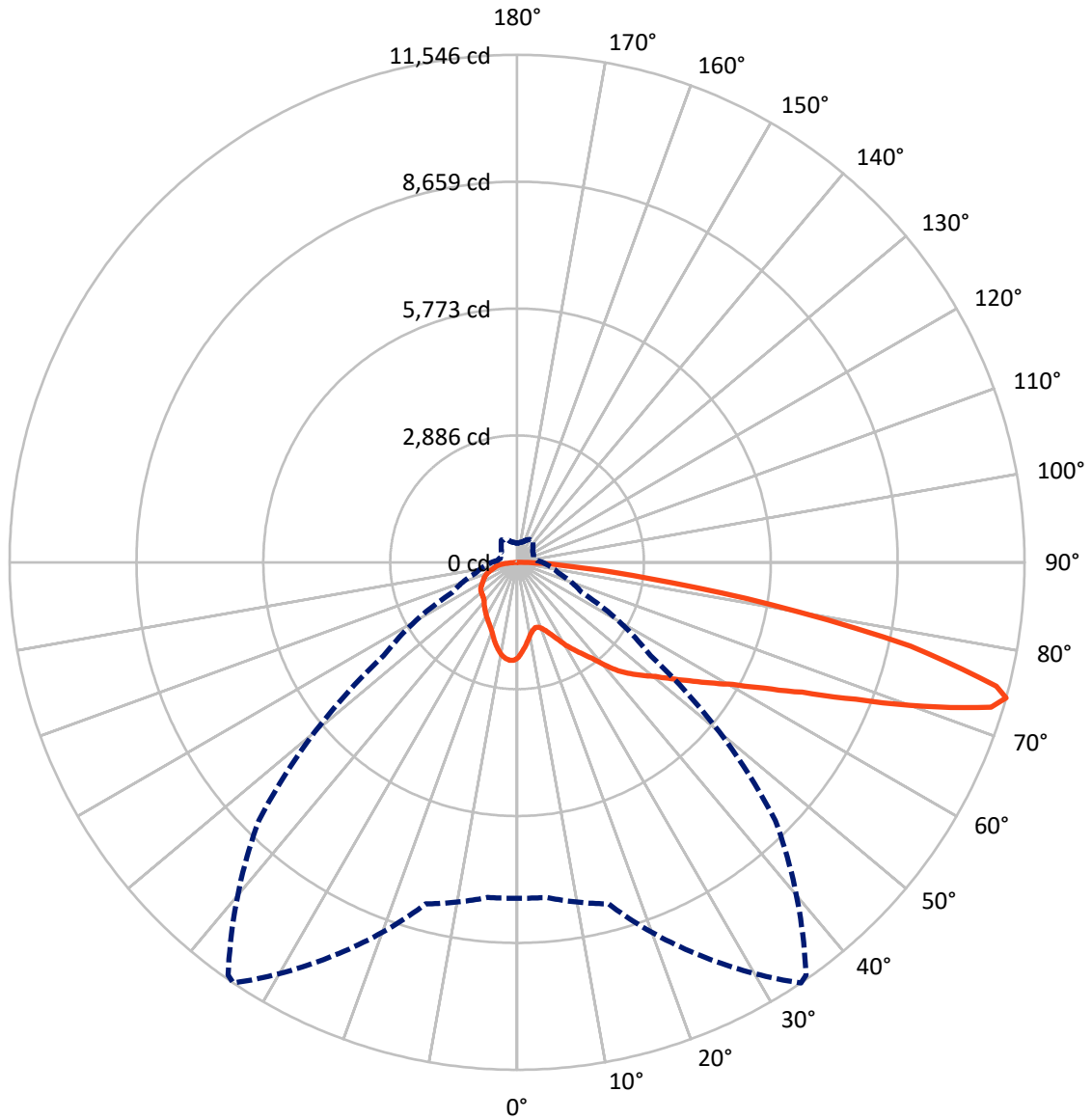
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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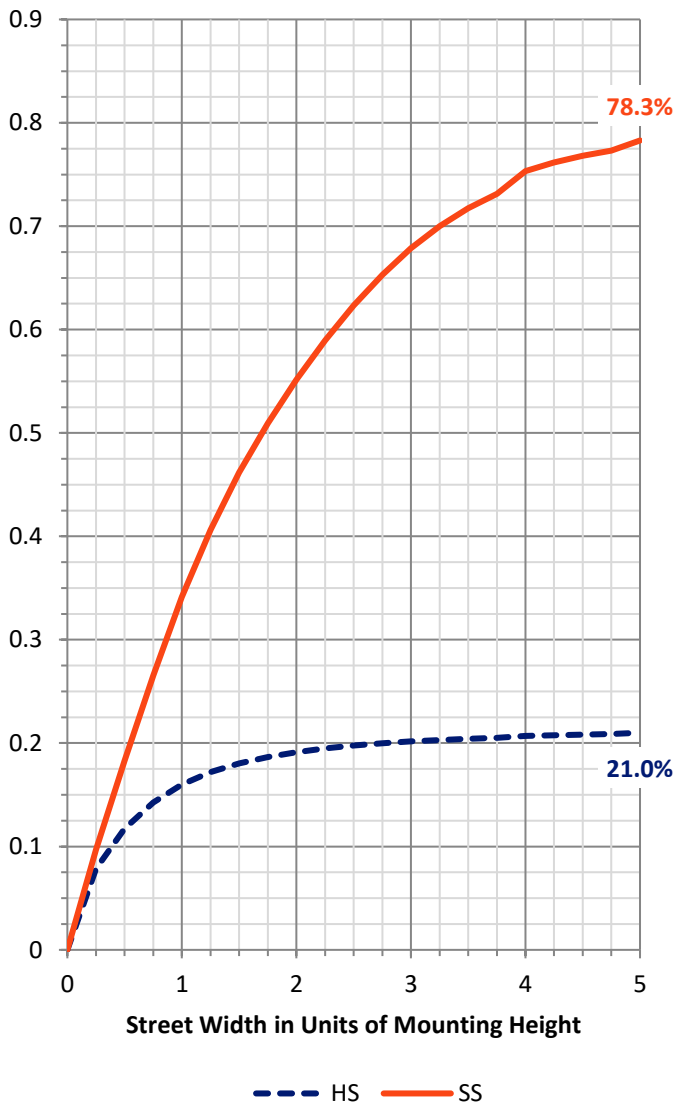
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3033.4	0.0	3033.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11220.7	0.0	11220.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	14254.1	0.0	14254.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.4
10°-20°	541.8	3.8
20°-30°	893.3	6.3
30°-40°	1338.1	9.4
40°-50°	1945.2	13.6
50°-60°	2717.0	19.1
60°-70°	3401.5	23.9
70°-80°	2812.8	19.7
80°-90°	406.4	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°	14254.1	100.0
0°-180°	14254.1	100.0

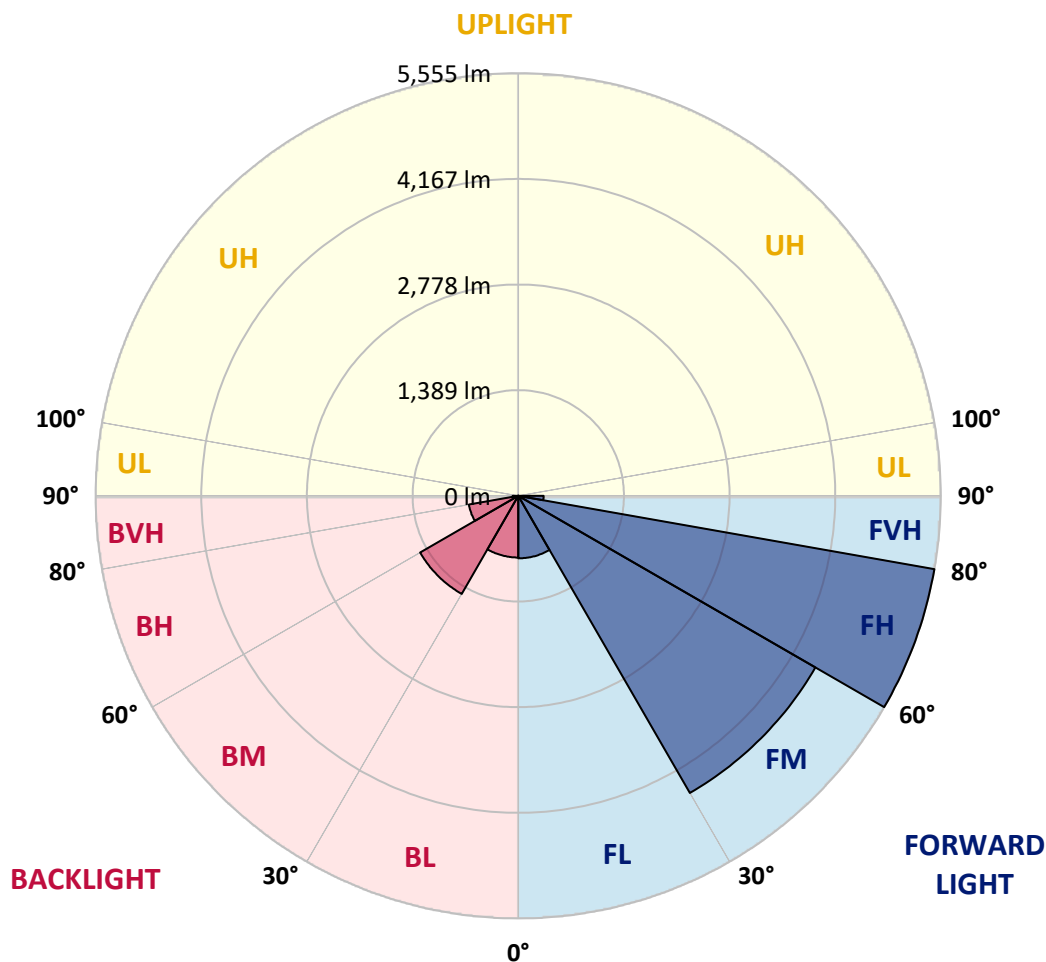


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.7	5.8			
FM (30°-60°)	4510.6	31.6			
FH (60°-80°)	5555.5	39.0			G3/7500
FVH (80°-90°)	333.0	2.3			G3/500
BL (0°-30°)	811.4	5.7	B2/1000		
BM (30°-60°)	1489.7	10.5	B2/2500		
BH (60°-80°)	658.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	73.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3
2.5°	2011.3	2021.5	2027.1	2046.8	2051.5	2057.8	2074.5	2096.5	2125.0	2150.3	2172.4
5°	1843.9	1859.7	1869.1	1886.5	1920.5	1923.6	1967.9	2018.4	2076.0	2129.7	2174.0
7.5°	1685.1	1702.5	1710.4	1742.0	1787.0	1794.1	1858.9	1938.6	2035.0	2116.3	2184.2
10°	1565.9	1574.6	1591.9	1615.6	1669.4	1674.1	1758.6	1865.2	1990.0	2110.0	2201.6
12.5°	1501.2	1505.9	1509.8	1535.1	1588.1	1595.1	1683.6	1804.4	1954.4	2114.7	2230.0
15°	1510.6	1512.2	1494.9	1499.6	1542.2	1552.5	1640.1	1764.1	1932.3	2126.6	2272.6
17.5°	1590.4	1584.9	1542.2	1520.1	1550.1	1554.8	1631.5	1748.4	1922.0	2148.7	2316.9
20°	1716.0	1708.1	1634.6	1585.6	1603.0	1607.0	1659.9	1760.1	1932.3	2185.0	2385.6
22.5°	1872.3	1869.1	1757.8	1698.6	1697.8	1697.8	1725.4	1802.8	1963.1	2234.8	2457.4
25°	2091.1	2074.5	1929.2	1852.6	1831.3	1829.7	1826.5	1873.1	2002.6	2287.7	2542.8
27.5°	2315.3	2286.8	2157.3	2039.7	1993.9	1988.4	1967.9	1972.6	2053.1	2347.7	2639.8
30°	2516.7	2498.5	2376.9	2246.6	2192.2	2179.5	2122.6	2096.5	2137.7	2455.9	2794.6
32.5°	2670.7	2659.6	2564.8	2446.4	2365.8	2363.5	2280.5	2259.3	2269.5	2586.9	2971.5
35°	2795.4	2799.4	2751.2	2648.6	2556.1	2542.8	2487.4	2460.6	2430.6	2776.5	3194.2
37.5°	2966.0	2974.7	2971.5	2883.0	2770.2	2773.3	2760.7	2716.4	2636.7	2988.1	3441.4
40°	3153.9	3160.2	3159.5	3125.5	3066.3	3069.4	3064.7	3014.1	2894.9	3257.4	3716.2
42.5°	3413.7	3383.7	3305.6	3339.5	3374.3	3389.2	3421.6	3373.4	3210.0	3544.8	3974.4
45°	3704.4	3647.5	3470.6	3486.4	3615.1	3643.5	3822.0	3755.7	3551.9	3874.9	4278.4
47.5°	3887.5	3831.4	3682.2	3679.0	3849.6	3877.3	4193.1	4168.7	3863.0	4231.1	4649.6
50°	4051.0	4043.1	3874.9	3915.2	4081.8	4122.8	4597.4	4574.5	4173.4	4651.2	5053.9
52.5°	4293.4	4229.5	4095.2	4178.1	4398.4	4452.2	4998.6	4931.5	4458.5	5022.3	5446.3
55°	4402.4	4387.4	4379.5	4451.3	4753.8	4792.5	5388.7	5234.7	4701.7	5336.6	5744.8
57.5°	4693.8	4666.1	4744.3	4793.3	5172.3	5231.5	5796.2	5551.4	4914.9	5586.1	5890.1
60°	5071.2	5056.3	5128.1	5216.6	5639.8	5729.8	6260.5	5821.4	5086.2	5711.7	5810.4
62.5°	5635.0	5633.4	5620.1	5809.5	6302.3	6385.2	6793.5	6084.4	5113.1	5617.7	5398.1
65°	6443.7	6415.2	6298.4	6505.3	7126.7	7223.9	7348.7	6231.2	4951.2	5135.2	4545.4
67.5°	7289.5	7287.9	7193.1	7461.5	8310.4	8410.8	8042.7	6198.8	4501.9	4159.9	3228.2
70°	7990.6	7956.7	8077.5	8792.9	9822.6	9938.8	8650.0	5817.4	3585.9	2747.2	1918.1
72.5°	8158.8	8160.4	8411.5	9819.5	11274.9	11293.0	8868.8	4715.1	2399.8	1515.4	959.4
74°	7640.8	7654.3	8043.6	9870.8	11545.8	11463.6	8309.7	3705.9	1622.8	989.4	691.7
75°	6974.3	6889.8	7452.9	9528.9	11264.6	11176.1	7655.0	2973.9	1238.2	790.5	605.7
77.5°	3728.8	3814.9	4683.5	7110.9	9151.4	9049.6	5190.5	1426.2	668.8	550.4	435.9
80°	1327.4	1464.0	2057.8	3720.9	5867.2	5898.8	2477.2	653.9	470.6	405.9	308.0
82.5°	541.7	556.7	883.6	1651.2	2979.4	3007.8	1011.6	388.5	336.4	279.5	184.0
85°	211.6	218.0	390.9	742.3	1271.3	1354.3	349.9	205.3	206.9	160.3	93.9
87.5°	71.1	80.6	160.3	247.2	431.9	423.3	101.8	60.8	74.3	69.5	29.2
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°	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3	2176.3
2.5°	2183.4	2198.5	2208.7	2219.7	2230.0	2233.2	2230.8	2237.9	2238.7	2239.5	2240.3
5°	2196.1	2216.6	2236.3	2247.4	2252.1	2248.2	2234.8	2227.6	2221.3	2216.6	2218.1
7.5°	2213.4	2242.6	2260.8	2265.6	2253.0	2234.8	2201.6	2175.5	2158.9	2147.9	2147.1
10°	2240.3	2268.7	2283.7	2270.3	2235.5	2191.3	2139.2	2090.2	2053.1	2042.1	2041.3
12.5°	2274.2	2306.6	2305.9	2266.3	2205.5	2126.6	2042.1	1985.2	1934.7	1909.4	1919.7
15°	2318.5	2342.9	2320.1	2249.0	2152.6	2044.5	1940.2	1862.8	1806.0	1779.1	1780.7
17.5°	2369.8	2391.1	2330.3	2218.1	2078.4	1939.4	1818.6	1745.2	1700.2	1680.4	1678.8
20°	2433.8	2440.1	2330.3	2164.5	1982.8	1817.0	1701.8	1650.4	1625.1	1614.9	1618.0
22.5°	2502.5	2489.8	2317.7	2088.7	1857.3	1689.1	1611.7	1588.8	1576.2	1574.6	1576.2
25°	2579.9	2544.3	2291.6	1986.0	1726.2	1578.6	1533.6	1537.5	1539.9	1539.9	1545.3
27.5°	2674.6	2603.6	2248.2	1856.5	1573.0	1475.9	1463.3	1490.9	1503.5	1505.9	1509.8
30°	2799.4	2668.2	2176.3	1694.6	1442.7	1383.5	1405.6	1442.7	1456.9	1465.6	1464.0
32.5°	2947.8	2739.4	2079.2	1532.7	1337.7	1318.8	1345.6	1383.5	1399.3	1404.0	1397.7
35°	3122.4	2819.9	1951.3	1381.1	1246.1	1257.1	1288.7	1300.6	1314.8	1314.8	1317.9
37.5°	3310.3	2884.6	1794.9	1242.2	1175.0	1215.3	1238.2	1227.1	1220.8	1212.9	1216.8
40°	3501.4	2932.8	1591.9	1104.7	1104.0	1171.8	1178.2	1146.6	1121.3	1113.4	1109.4
42.5°	3668.0	2962.8	1408.8	998.1	1036.9	1129.2	1133.9	1083.5	1043.2	1019.5	1011.6
45°	3864.6	2997.6	1229.5	909.7	974.5	1095.2	1107.1	1039.2	980.0	930.2	917.6
47.5°	4133.9	3076.5	1088.2	841.0	929.5	1074.0	1090.5	1002.9	924.7	859.9	849.7
50°	4438.0	3184.7	978.4	794.4	894.7	1055.0	1075.6	965.7	873.4	801.5	793.7
52.5°	4716.7	3243.1	883.6	752.5	860.8	1020.2	1055.8	938.9	822.8	743.1	736.0
55°	4869.1	3148.4	790.5	711.5	814.2	975.2	1028.1	901.8	773.9	712.2	702.0
57.5°	4889.6	2952.6	705.9	667.2	765.2	920.0	976.8	856.8	742.3	691.0	682.3
60°	4730.9	2660.4	640.4	630.9	715.4	857.6	919.2	817.3	709.9	667.2	658.6
62.5°	4336.0	2342.9	594.6	597.8	664.9	792.1	876.5	779.4	679.1	641.2	633.3
65°	3656.9	1933.9	550.4	563.8	619.9	740.7	837.8	747.8	648.3	621.5	614.4
67.5°	2540.3	1396.1	514.1	528.3	577.3	688.6	792.8	713.8	613.6	599.4	588.3
70°	1406.4	859.2	471.5	488.0	533.0	630.2	742.3	662.5	563.0	556.7	540.9
72.5°	739.2	547.2	423.3	441.4	473.0	555.1	664.9	606.4	513.3	486.4	465.9
74°	577.3	448.5	390.9	409.8	431.2	510.9	619.1	566.2	477.8	446.2	430.3
75°	503.0	399.6	363.2	387.7	406.7	480.9	583.6	537.7	458.0	428.0	413.8
77.5°	355.3	299.3	296.9	326.1	336.4	421.7	525.9	489.6	408.2	376.7	363.2
80°	249.5	224.3	235.3	253.5	267.7	372.7	488.0	423.3	334.8	297.7	293.0
82.5°	162.6	146.8	168.2	184.8	189.6	274.8	394.0	321.4	244.0	198.2	184.0
85°	75.0	73.4	96.4	93.9	93.2	134.2	233.7	188.0	140.5	105.0	98.7
87.5°	18.9	18.2	23.7	19.8	23.7	20.5	21.4	5.6	0.8	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)