

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: P647910

Luminaire Tested: **GALN-SA4A-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647910
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-SA4A-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA 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: 14133.9 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

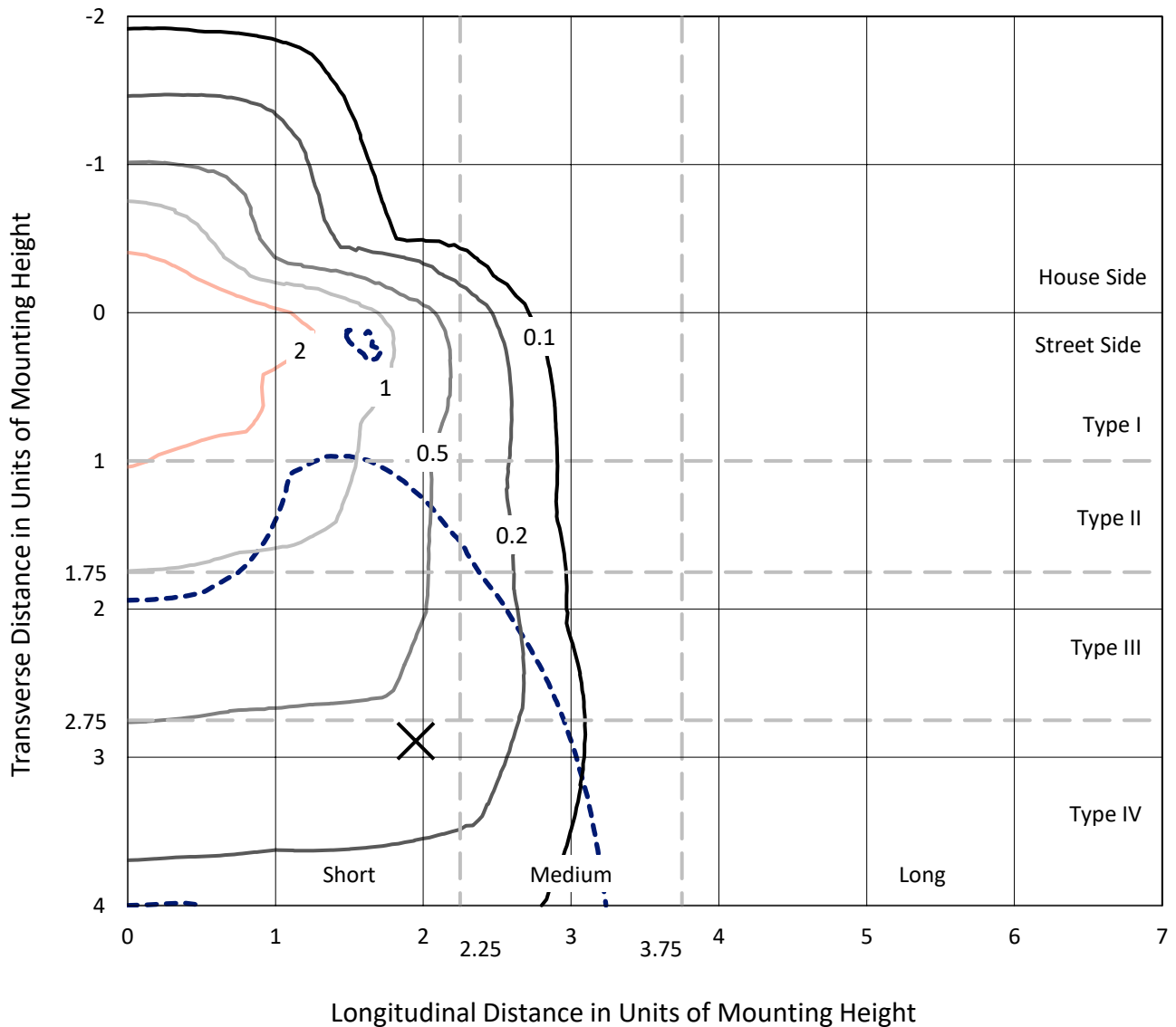
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

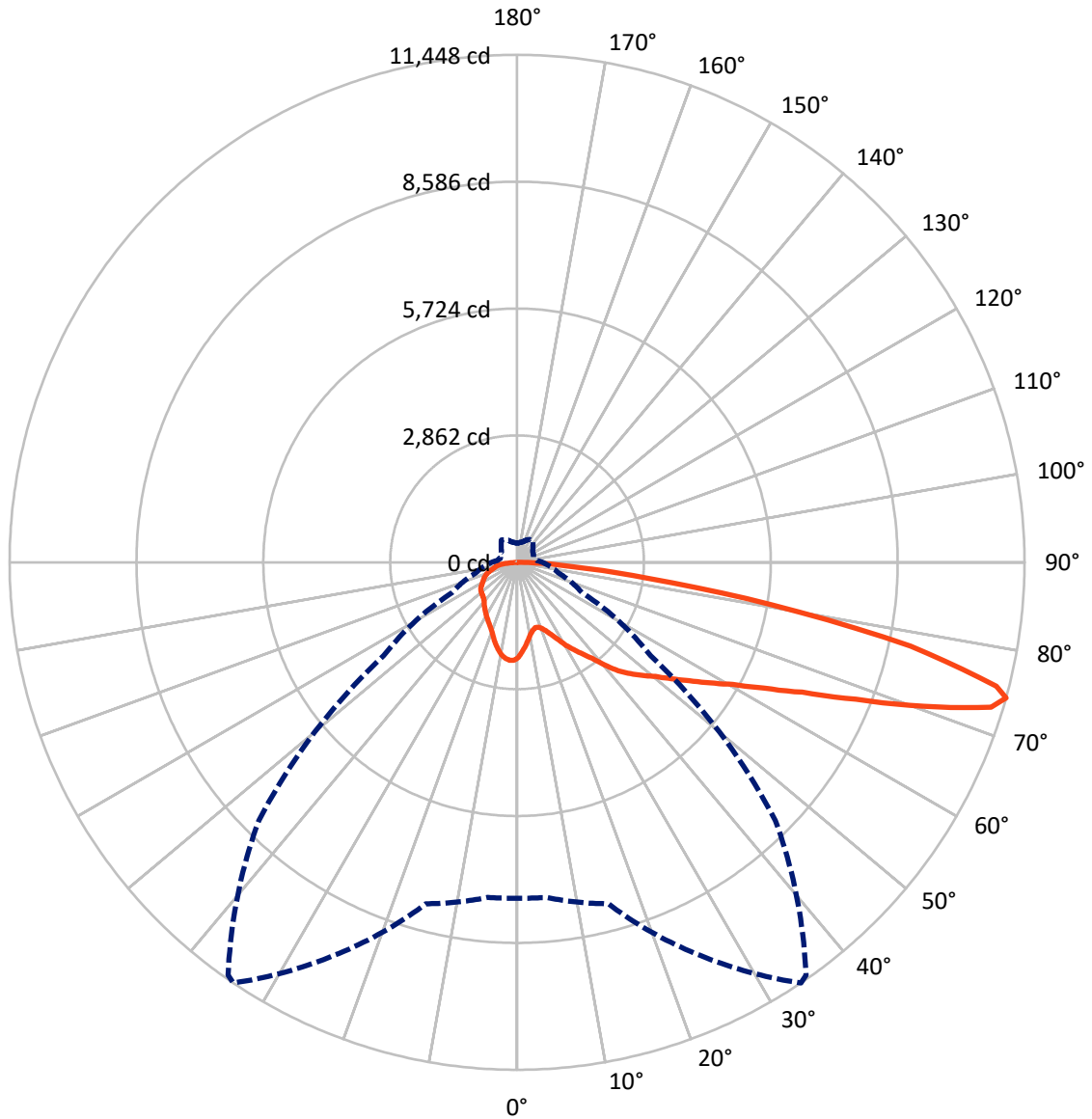
✕ Max cd
 - - - 1/2 Max cd



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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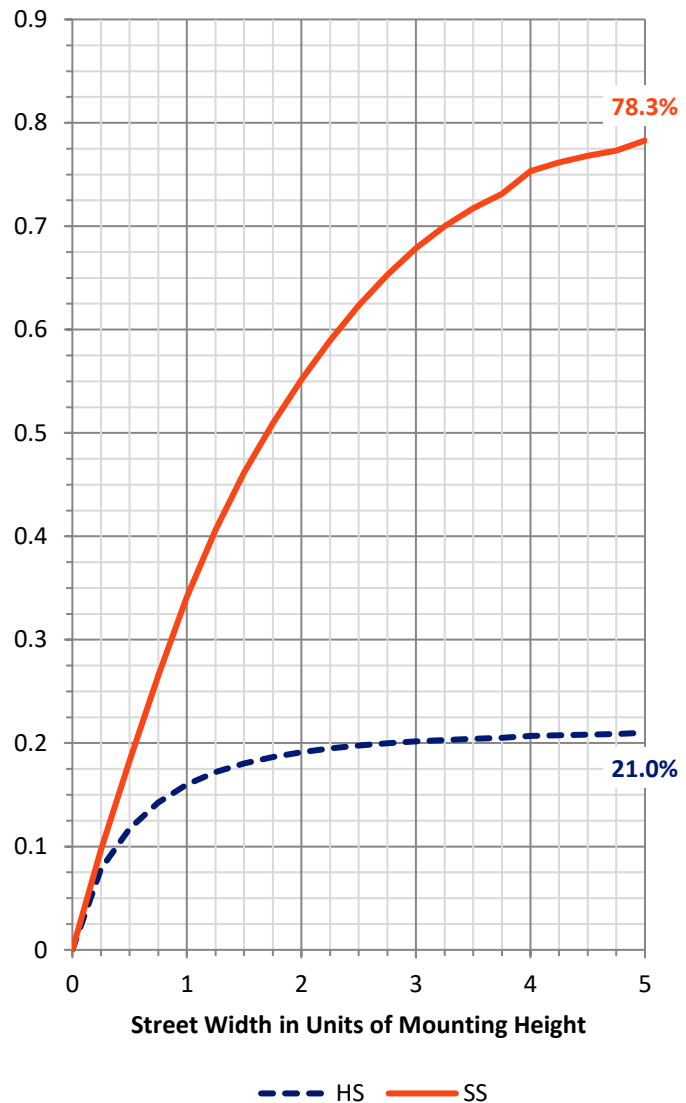
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3007.8	0.0	3007.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	11126.1	0.0	11126.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	14133.9	0.0	14133.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.4
10°-20°	537.2	3.8
20°-30°	885.8	6.3
30°-40°	1326.8	9.4
40°-50°	1928.8	13.6
50°-60°	2694.1	19.1
60°-70°	3372.9	23.9
70°-80°	2789.1	19.7
80°-90°	403.0	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°	14133.9	100.0
0°-180°	14133.9	100.0

Coefficient of Utilization

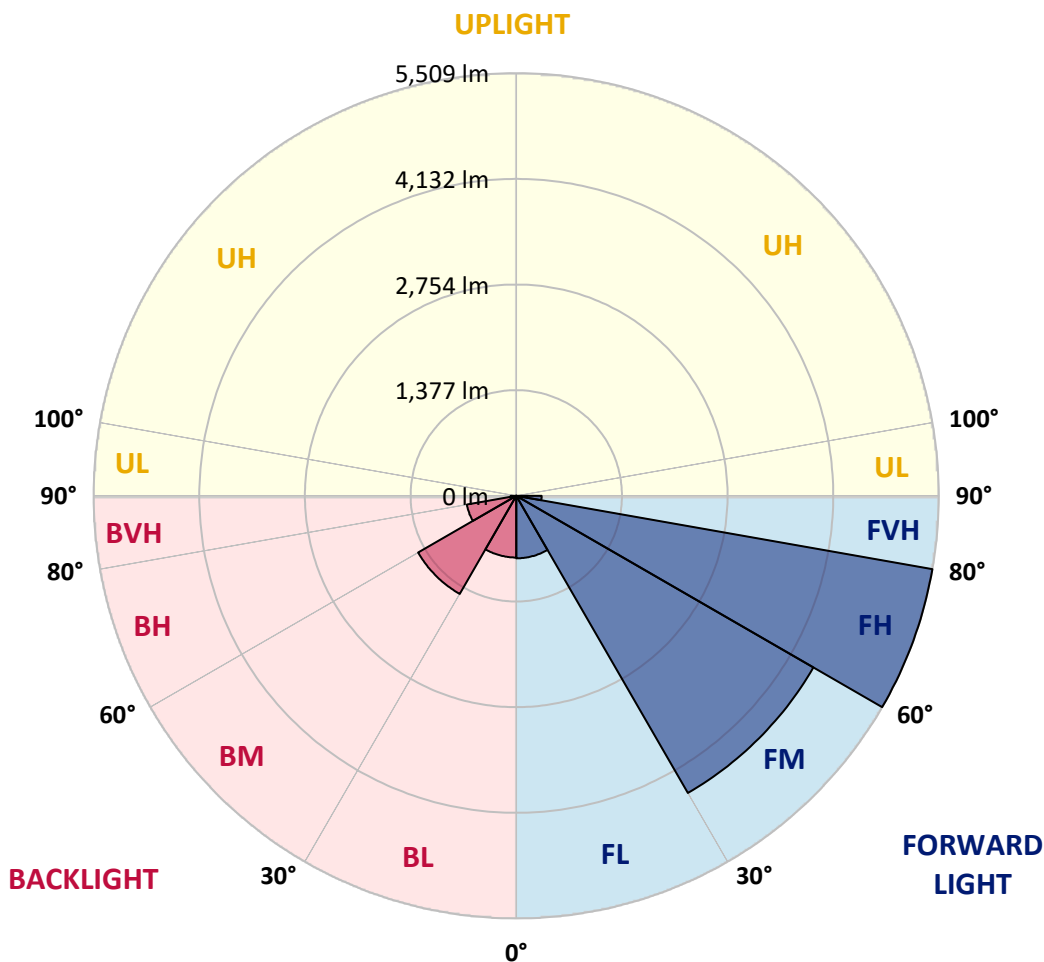


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.7	5.8			
FM (30°-60°)	4472.6	31.6			
FH (60°-80°)	5508.7	39.0			G3/7500
FVH (80°-90°)	330.2	2.3			G3/500
BL (0°-30°)	804.5	5.7	B2/1000		
BM (30°-60°)	1477.1	10.5	B2/2500		
BH (60°-80°)	653.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	72.8	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°	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9
2.5°	1994.3	2004.5	2010.0	2029.5	2034.2	2040.5	2056.9	2078.9	2107.1	2132.1	2154.0
5°	1828.3	1844.0	1853.4	1870.6	1904.3	1907.4	1951.2	2001.3	2058.5	2111.8	2155.6
7.5°	1670.9	1688.1	1696.0	1727.3	1771.9	1779.0	1843.2	1922.3	2017.8	2098.4	2165.8
10°	1552.7	1561.3	1578.5	1602.0	1655.3	1660.0	1743.7	1849.4	1973.2	2092.2	2183.0
12.5°	1488.5	1493.2	1497.1	1522.2	1574.6	1581.7	1669.4	1789.2	1937.9	2096.9	2211.2
15°	1497.9	1499.4	1482.2	1486.9	1529.2	1539.4	1626.3	1749.2	1916.0	2108.6	2253.5
17.5°	1577.0	1571.5	1529.2	1507.3	1537.0	1541.7	1617.7	1733.6	1905.8	2130.5	2297.3
20°	1701.5	1693.6	1620.8	1572.3	1589.5	1593.4	1645.9	1745.3	1916.0	2166.6	2365.4
22.5°	1856.5	1853.4	1743.0	1684.2	1683.4	1683.4	1710.9	1787.6	1946.5	2215.9	2436.7
25°	2073.4	2056.9	1912.9	1836.9	1815.8	1814.2	1811.1	1857.3	1985.7	2268.4	2521.3
27.5°	2295.8	2267.6	2139.2	2022.5	1977.1	1971.6	1951.2	1955.9	2035.8	2327.9	2617.6
30°	2495.4	2477.4	2356.8	2227.6	2173.6	2161.1	2104.7	2078.9	2119.6	2435.1	2771.0
32.5°	2648.1	2637.1	2543.2	2425.7	2345.9	2343.5	2261.3	2240.2	2250.3	2565.1	2946.4
35°	2771.8	2775.7	2728.0	2626.2	2534.6	2521.3	2466.5	2439.8	2410.1	2753.0	3167.2
37.5°	2940.9	2949.6	2946.4	2858.7	2746.8	2749.9	2737.4	2693.5	2614.4	2962.9	3412.3
40°	3127.3	3133.6	3132.8	3099.1	3040.4	3043.5	3038.8	2988.7	2870.5	3229.9	3684.9
42.5°	3384.9	3355.2	3277.6	3311.3	3345.8	3360.6	3392.7	3345.0	3182.9	3514.9	3940.9
45°	3673.1	3616.8	3441.3	3456.9	3584.7	3612.8	3789.8	3724.0	3522.0	3842.3	4242.4
47.5°	3854.8	3799.2	3651.2	3648.1	3817.2	3844.6	4157.8	4133.5	3830.5	4195.4	4610.4
50°	4016.9	4009.0	3842.3	3882.2	4047.4	4088.1	4558.7	4536.0	4138.2	4611.9	5011.3
52.5°	4257.2	4193.8	4060.7	4142.9	4361.4	4414.6	4956.5	4889.9	4420.9	4980.0	5400.4
55°	4365.3	4350.4	4342.6	4413.8	4713.7	4752.1	5343.3	5190.6	4662.1	5291.6	5696.4
57.5°	4654.2	4626.8	4704.3	4752.9	5128.7	5187.5	5747.3	5504.6	4873.5	5539.0	5840.5
60°	5028.5	5013.6	5084.9	5172.6	5592.3	5681.5	6207.7	5772.4	5043.4	5663.5	5761.4
62.5°	5587.6	5586.0	5572.7	5760.6	6249.2	6331.4	6736.2	6033.1	5070.0	5570.3	5352.7
65°	6389.4	6361.2	6245.3	6450.4	7066.7	7163.0	7286.7	6178.7	4909.5	5091.9	4507.0
67.5°	7228.0	7226.4	7132.4	7398.6	8240.4	8339.8	7974.9	6146.6	4464.0	4124.9	3200.9
70°	7923.3	7889.6	8009.4	8718.8	9739.8	9854.9	8577.1	5768.4	3555.7	2724.1	1901.9
72.5°	8090.0	8091.6	8340.6	9736.7	11179.8	11197.8	8794.0	4675.4	2379.5	1502.6	951.3
74°	7576.4	7589.7	7975.7	9787.6	11448.4	11367.0	8239.6	3674.7	1609.1	981.1	685.9
75°	6915.5	6831.8	7390.0	9448.5	11169.7	11082.0	7590.5	2948.8	1227.7	783.8	600.6
77.5°	3697.4	3782.8	4644.1	7051.0	9074.3	8973.3	5146.7	1414.1	663.2	545.8	432.2
80°	1316.2	1451.7	2040.5	3689.6	5817.8	5849.1	2456.3	648.3	466.7	402.5	305.4
82.5°	537.1	552.0	876.2	1637.3	2954.3	2982.4	1003.0	385.2	333.6	277.2	182.4
85°	209.8	216.1	387.6	736.0	1260.6	1342.8	346.9	203.6	205.1	158.9	93.2
87.5°	70.5	79.9	158.9	245.1	428.3	419.7	101.0	60.3	73.6	68.9	29.0
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°	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9
2.5°	2165.0	2179.9	2190.1	2201.0	2211.2	2214.3	2212.0	2219.0	2219.8	2220.6	2221.4
5°	2177.5	2197.9	2217.5	2228.4	2233.1	2229.2	2215.9	2208.8	2202.6	2197.9	2199.4
7.5°	2194.7	2223.7	2241.7	2246.4	2233.9	2215.9	2183.0	2157.2	2140.7	2129.8	2129.0
10°	2221.4	2249.6	2264.4	2251.1	2216.7	2172.8	2121.1	2072.6	2035.8	2024.8	2024.1
12.5°	2255.0	2287.1	2286.4	2247.2	2186.9	2108.6	2024.8	1968.5	1918.4	1893.3	1903.5
15°	2298.9	2323.2	2300.5	2230.0	2134.5	2027.2	1923.8	1847.1	1790.7	1764.1	1765.7
17.5°	2349.8	2370.9	2310.6	2199.4	2060.9	1923.0	1803.2	1730.4	1685.8	1666.2	1664.7
20°	2413.2	2419.5	2310.6	2146.2	1966.1	1801.7	1687.4	1636.5	1611.4	1601.2	1604.4
22.5°	2481.3	2468.8	2298.1	2071.0	1841.6	1674.8	1598.1	1575.4	1562.9	1561.3	1562.9
25°	2558.1	2522.8	2272.3	1969.2	1711.6	1565.2	1520.6	1524.5	1526.9	1526.9	1532.3
27.5°	2652.0	2581.6	2229.2	1840.8	1559.7	1463.4	1450.9	1478.3	1490.8	1493.2	1497.1
30°	2775.7	2645.8	2157.9	1680.3	1430.5	1371.8	1393.7	1430.5	1444.6	1453.2	1451.7
32.5°	2922.9	2716.2	2061.6	1519.8	1326.4	1307.6	1334.2	1371.8	1387.5	1392.2	1385.9
35°	3096.0	2796.1	1934.8	1369.5	1235.6	1246.5	1277.9	1289.6	1303.7	1303.7	1306.8
37.5°	3282.3	2860.3	1779.8	1231.7	1165.1	1205.0	1227.7	1216.8	1210.5	1202.7	1206.6
40°	3471.8	2908.1	1578.5	1095.4	1094.6	1162.0	1168.2	1136.9	1111.9	1104.0	1100.1
42.5°	3637.1	2937.8	1396.9	989.7	1028.1	1119.7	1124.4	1074.3	1034.3	1010.9	1003.0
45°	3832.1	2972.3	1219.1	902.0	966.2	1086.0	1097.8	1030.4	971.7	922.4	909.8
47.5°	4099.1	3050.6	1079.0	833.9	921.6	1064.9	1081.3	994.4	916.9	852.7	842.5
50°	4400.5	3157.8	970.1	787.7	887.1	1046.1	1066.4	957.6	866.0	794.7	786.9
52.5°	4676.9	3215.8	876.2	746.2	853.5	1011.6	1046.9	931.0	815.9	736.8	729.8
55°	4828.1	3121.8	783.8	705.5	807.3	967.0	1019.5	894.2	767.3	706.3	696.1
57.5°	4848.4	2927.6	700.0	661.6	758.7	912.2	968.6	849.6	736.0	685.1	676.5
60°	4691.0	2637.9	635.0	625.6	709.4	850.3	911.4	810.4	703.9	661.6	653.0
62.5°	4299.5	2323.2	589.6	592.7	659.3	785.3	869.1	772.8	673.4	635.8	628.0
65°	3626.2	1917.6	545.8	559.1	614.7	734.5	830.8	741.5	642.8	616.2	609.2
67.5°	2518.9	1384.3	509.7	523.8	572.4	682.8	786.1	707.8	608.4	594.3	583.3
70°	1394.5	851.9	467.5	483.9	528.5	624.8	736.0	656.9	558.3	552.0	536.4
72.5°	732.9	542.6	419.7	437.7	469.0	550.4	659.3	601.3	509.0	482.3	462.0
74°	572.4	444.7	387.6	406.4	427.5	506.6	613.9	561.4	473.7	442.4	426.7
75°	498.8	396.2	360.2	384.5	403.2	476.8	578.6	533.2	454.1	424.4	410.3
77.5°	352.4	296.8	294.4	323.4	333.6	418.1	521.5	485.5	404.8	373.5	360.2
80°	247.4	222.4	233.3	251.3	265.4	369.6	483.9	419.7	332.0	295.2	290.5
82.5°	161.3	145.6	166.8	183.2	187.9	272.5	390.7	318.7	241.9	196.5	182.4
85°	74.4	72.8	95.5	93.2	92.4	133.1	231.8	186.4	139.4	104.1	97.9
87.5°	18.8	18.0	23.5	19.6	23.5	20.4	21.1	5.5	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)