

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: P318828

Luminaire Tested: **GLEON-SA4A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 13902 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

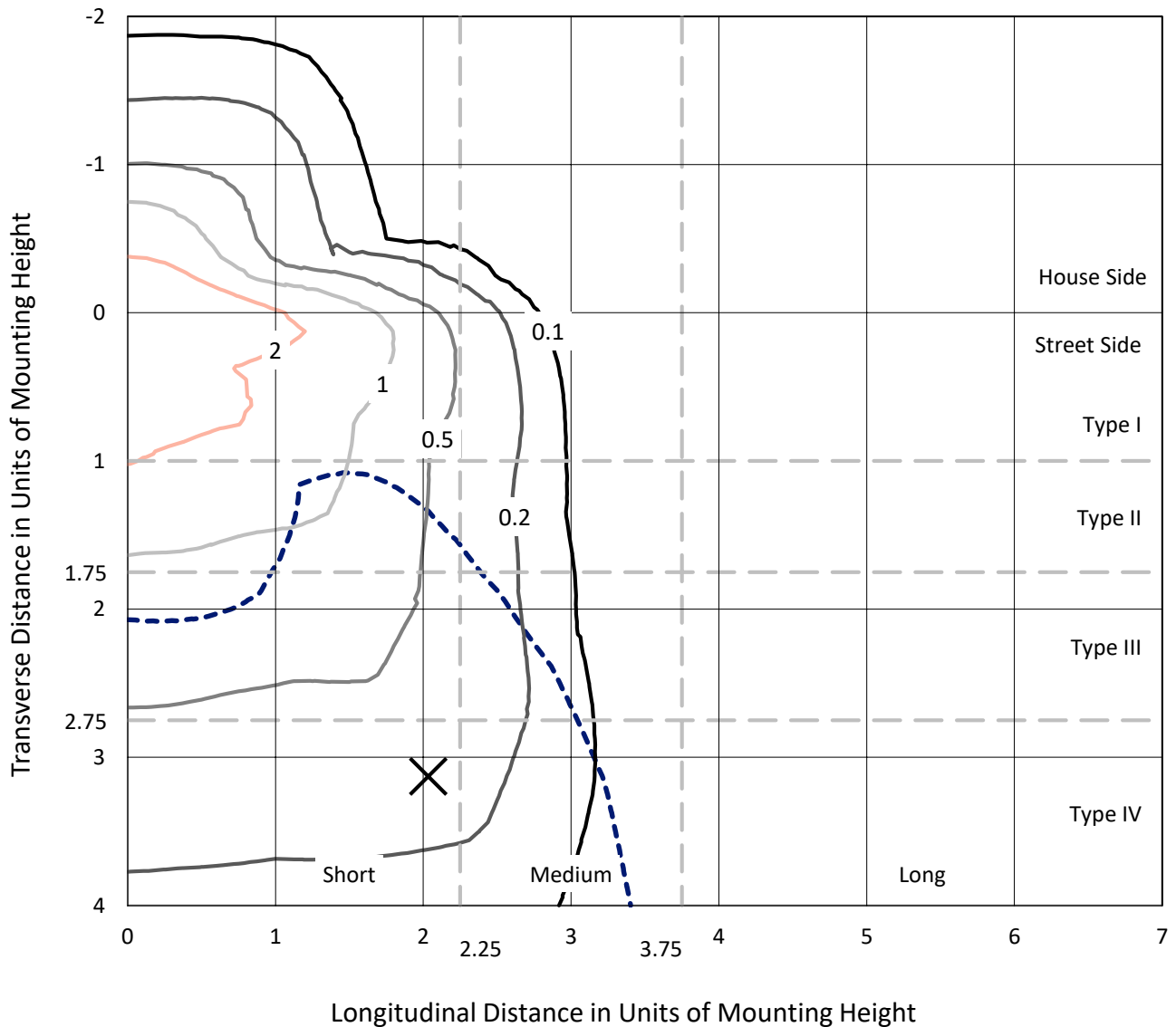
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

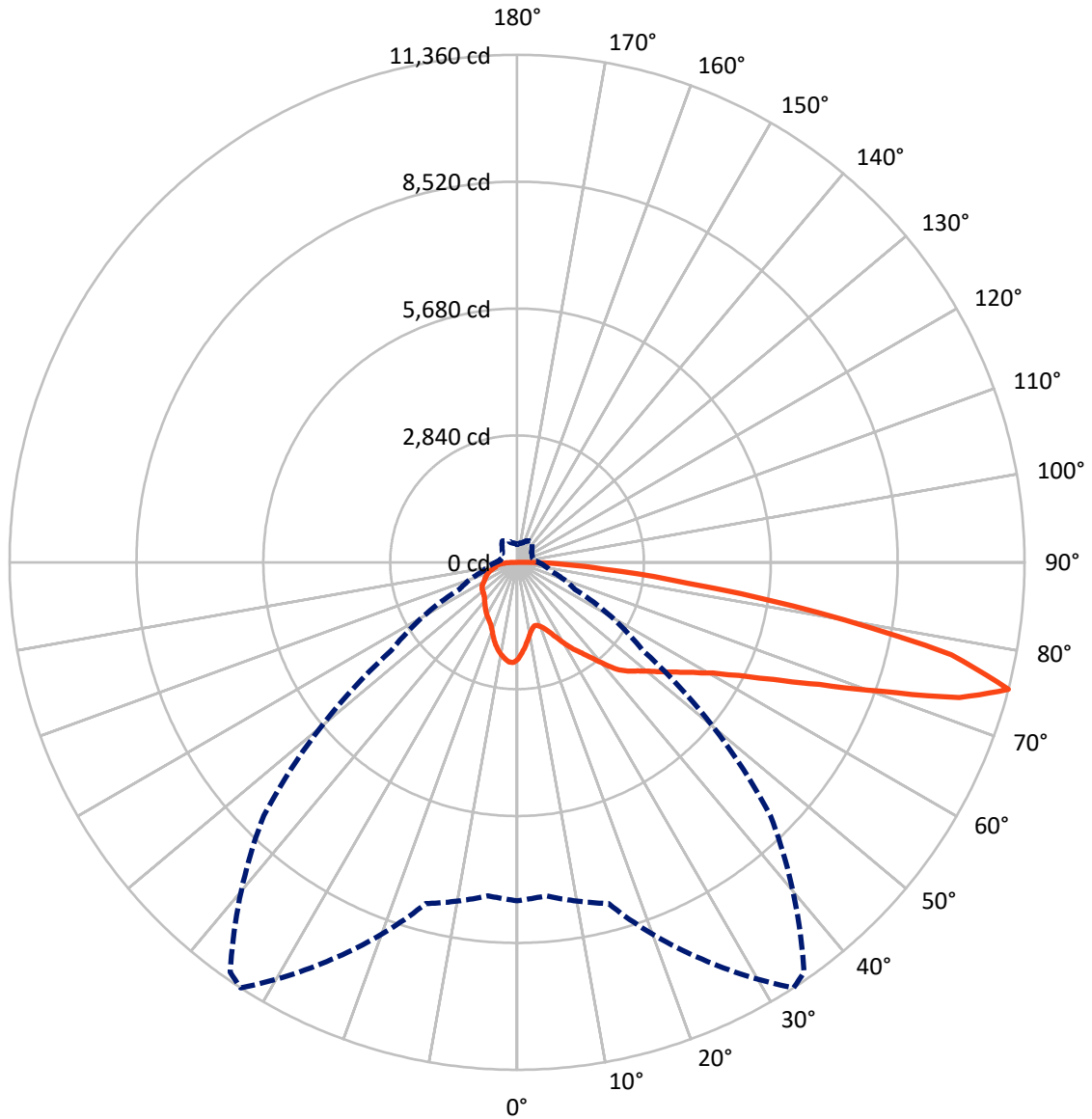
× Max cd
 - - - 1/2 Max cd



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 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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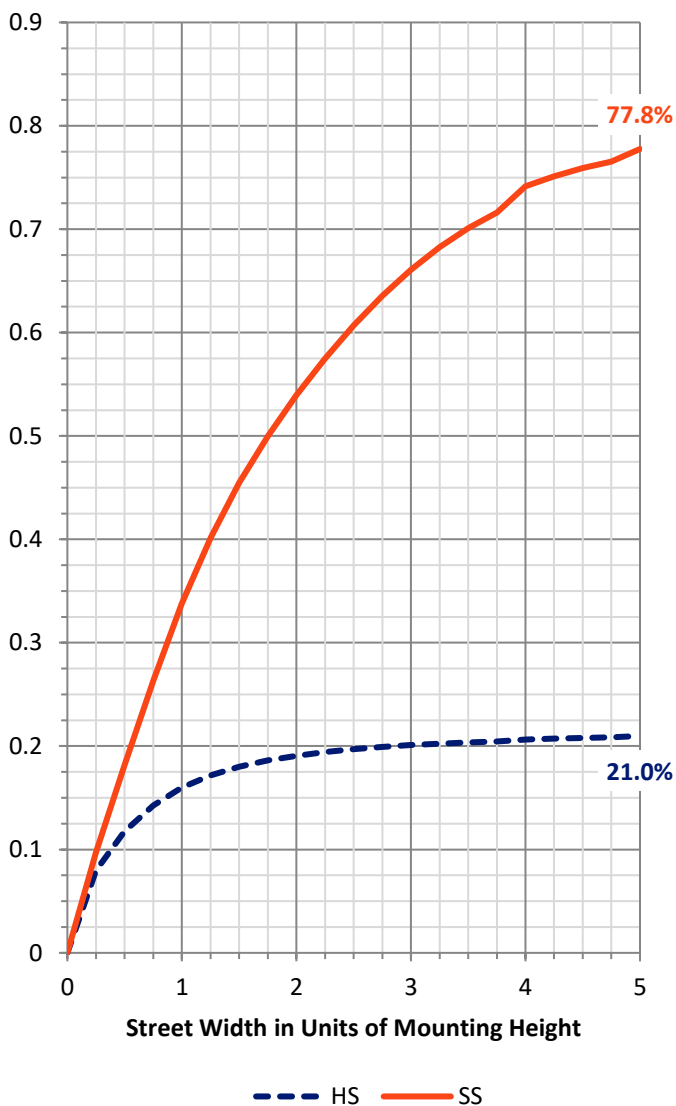
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2985.1	0.0	2985.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10916.9	0.0	10916.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	13902.0	0.0	13902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.4
10°-20°	532.2	3.8
20°-30°	869.2	6.3
30°-40°	1294.5	9.3
40°-50°	1856.7	13.4
50°-60°	2548.9	18.3
60°-70°	3191.1	23.0
70°-80°	2886.9	20.8
80°-90°	525.9	3.8
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°	13902.0	100.0
0°-180°	13902.0	100.0

Coefficient of Utilization



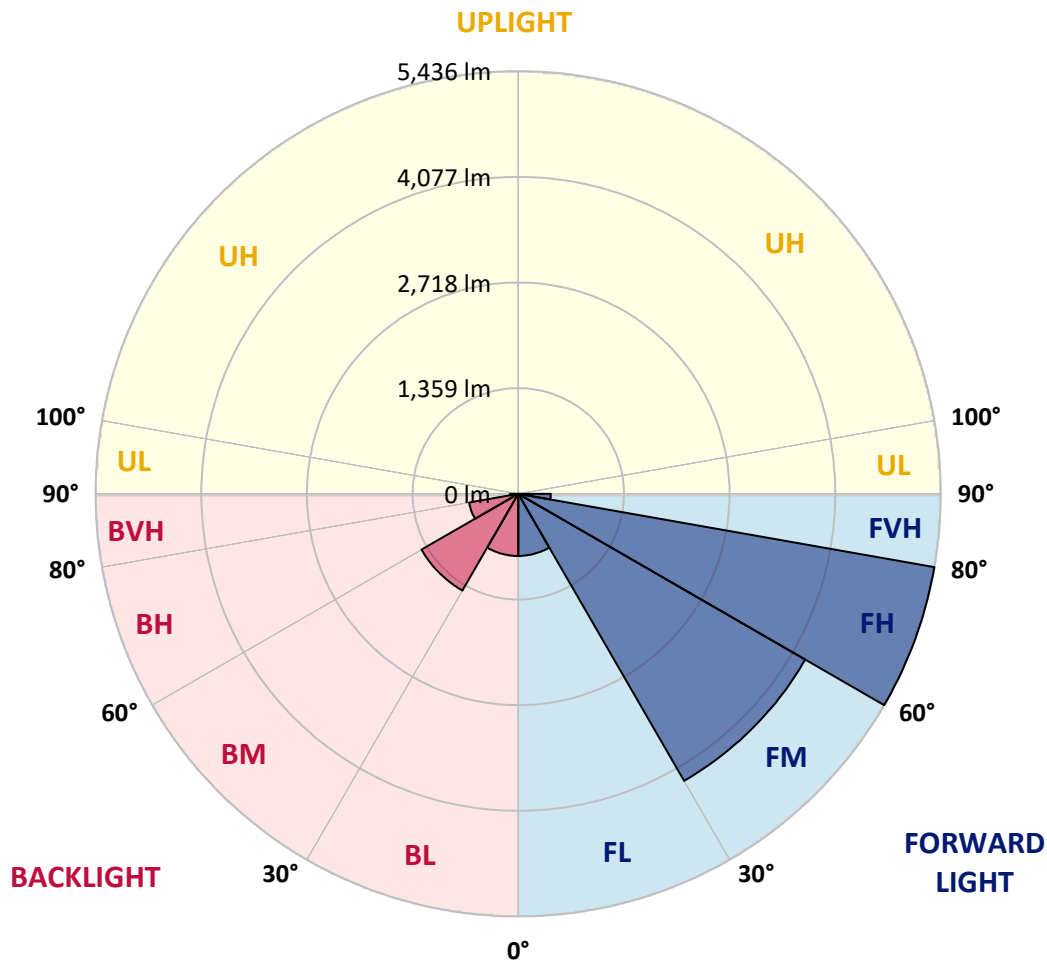
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	798.5	5.7			
FM (30°-60°)	4263.5	30.7			
FH (60°-80°)	5436.2	39.1			G3/7500
FVH (80°-90°)	418.8	3.0			G3/500
BL (0°-30°)	799.6	5.8	B2/1000		
BM (30°-60°)	1436.7	10.3	B2/2500		
BH (60°-80°)	641.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	107.1	0.8			G2/225
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°	33°	35°	45°	55°	65°	75°	85°
0°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2017.9	2010.2	2024.6	2026.5	2039.0	2043.8	2061.1	2088.0	2110.1	2135.5	2158.6
5°	1834.9	1829.6	1849.8	1864.2	1891.6	1903.1	1943.9	2001.0	2051.9	2109.6	2161.9
7.5°	1661.1	1658.2	1680.7	1713.4	1745.1	1760.9	1831.5	1914.6	1999.6	2092.8	2173.0
10°	1514.6	1513.6	1535.2	1567.4	1614.0	1631.8	1723.0	1832.5	1951.6	2079.8	2191.7
12.5°	1432.5	1435.8	1445.9	1472.8	1516.0	1533.8	1635.1	1763.8	1911.2	2075.5	2219.1
15°	1452.6	1457.9	1440.6	1439.7	1470.4	1484.3	1579.4	1714.8	1882.4	2082.7	2258.9
17.5°	1538.6	1539.6	1493.9	1465.1	1483.9	1491.1	1562.1	1687.0	1865.6	2099.0	2308.9
20°	1659.6	1657.2	1576.5	1528.5	1538.6	1540.5	1586.6	1687.5	1864.2	2127.3	2373.7
22.5°	1820.0	1802.2	1693.7	1628.4	1626.0	1623.1	1649.5	1723.0	1885.3	2173.4	2451.0
25°	2029.4	2012.6	1863.2	1773.9	1754.7	1747.5	1751.3	1798.9	1927.1	2222.9	2537.4
27.5°	2262.3	2233.0	2088.9	1962.6	1922.8	1912.7	1889.6	1906.0	1972.7	2270.4	2640.2
30°	2457.2	2441.4	2315.6	2165.8	2118.7	2104.3	2043.8	2026.0	2038.5	2335.3	2769.9
32.5°	2566.3	2555.7	2479.3	2358.3	2314.6	2294.5	2209.0	2173.4	2144.1	2437.6	2945.6
35°	2698.3	2691.6	2645.5	2557.6	2492.8	2471.7	2405.4	2368.4	2293.0	2578.3	3172.8
37.5°	2866.4	2859.2	2860.1	2789.1	2711.8	2692.1	2648.4	2609.5	2486.1	2763.1	3419.6
40°	3056.6	3042.6	3037.3	3034.0	2985.0	2974.0	2950.9	2898.1	2728.1	2984.0	3663.1
42.5°	3342.8	3293.3	3187.6	3227.5	3276.0	3270.2	3289.0	3213.1	2997.0	3245.3	3900.8
45°	3618.9	3537.7	3355.2	3363.9	3470.0	3502.2	3642.4	3588.6	3288.5	3531.5	4146.6
47.5°	3744.7	3683.2	3528.1	3528.6	3633.8	3700.5	4007.9	3969.4	3594.9	3856.6	4446.8
50°	3885.4	3823.9	3684.7	3737.0	3828.7	3899.8	4360.8	4341.1	3886.4	4212.4	4806.4
52.5°	4039.1	3934.9	3846.5	3940.1	4068.8	4151.4	4714.2	4660.5	4153.8	4570.7	5219.9
55°	4041.0	4012.7	4079.9	4148.6	4341.1	4442.4	5084.5	4942.3	4371.9	4922.7	5556.5
57.5°	4271.0	4224.9	4367.5	4399.2	4650.9	4765.1	5452.8	5187.7	4593.7	5192.5	5738.1
60°	4575.5	4536.1	4652.8	4736.3	5034.1	5186.8	5846.1	5439.8	4768.0	5396.1	5729.4
62.5°	5101.3	5056.6	5055.2	5172.4	5573.3	5751.0	6287.4	5687.2	4837.2	5436.5	5485.0
65°	5871.1	5800.0	5666.0	5721.7	6318.2	6495.4	6780.6	5866.3	4745.9	5220.4	4855.4
67.5°	6620.2	6617.8	6453.1	6567.4	7301.6	7443.8	7342.4	5884.0	4461.2	4467.9	3738.5
70°	7366.9	7376.5	7348.7	7746.3	8630.4	8778.3	7940.8	5645.4	3821.0	3226.5	2239.7
72.5°	7958.6	7956.2	8096.4	9121.6	10354.8	10321.7	8445.0	4922.2	2743.5	1741.7	1070.4
75°	7575.3	7491.8	7909.6	9802.6	11359.9	11198.1	8016.2	3433.5	1423.8	792.8	576.3
77.5°	4940.9	5020.1	5633.4	8097.8	9936.6	9739.7	5881.2	1602.0	670.9	520.1	417.8
80°	1789.3	1872.8	2637.8	4587.0	6845.9	6813.7	2896.2	658.4	453.8	392.8	304.5
82.5°	615.6	646.4	1040.6	2037.1	3865.2	4009.3	1089.6	374.1	329.9	278.5	208.4
85°	241.5	276.6	475.9	980.1	1949.7	1964.1	441.3	223.8	229.5	182.5	114.3
87.5°	91.7	111.4	227.6	455.2	890.3	817.8	158.0	106.6	130.6	108.5	54.3
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°	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0	2173.0
2.5°	2176.3	2186.4	2207.5	2221.9	2237.3	2241.6	2243.6	2247.4	2251.2	2249.8	2250.3
5°	2189.8	2209.5	2243.6	2258.0	2264.7	2257.0	2242.1	2230.1	2221.5	2216.7	2215.2
7.5°	2211.9	2239.7	2276.2	2273.8	2258.4	2224.3	2185.9	2157.1	2133.1	2124.5	2119.7
10°	2241.2	2273.8	2299.3	2271.9	2227.2	2168.2	2110.5	2065.9	2029.9	2015.9	2013.5
12.5°	2278.6	2311.7	2316.5	2258.4	2184.5	2103.8	2025.5	1966.5	1912.7	1895.4	1891.6
15°	2327.1	2358.3	2328.5	2234.9	2131.7	2023.1	1921.8	1841.6	1784.9	1763.8	1756.1
17.5°	2378.0	2407.8	2331.0	2196.0	2062.5	1927.6	1800.3	1718.2	1653.4	1628.9	1626.0
20°	2439.0	2452.4	2320.9	2140.3	1967.4	1803.7	1669.7	1592.4	1557.8	1540.5	1538.6
22.5°	2514.4	2500.0	2297.8	2064.9	1846.9	1660.6	1551.6	1515.5	1506.9	1503.1	1504.5
25°	2594.1	2549.9	2263.7	1966.5	1694.7	1517.5	1465.1	1475.2	1486.7	1485.3	1485.3
27.5°	2682.0	2600.8	2211.4	1835.9	1526.1	1400.3	1406.5	1443.5	1460.8	1460.3	1459.8
30°	2794.8	2658.5	2144.6	1678.8	1368.6	1317.7	1355.6	1400.8	1424.3	1423.3	1423.8
32.5°	2933.6	2721.8	2053.9	1503.5	1254.8	1256.7	1300.4	1345.1	1372.4	1370.0	1370.5
35°	3095.9	2792.9	1930.9	1330.7	1179.4	1208.2	1242.8	1274.0	1299.9	1296.6	1293.2
37.5°	3272.6	2862.5	1767.7	1176.0	1117.9	1163.1	1191.9	1197.2	1209.2	1200.5	1194.3
40°	3440.7	2915.8	1557.3	1049.3	1056.0	1124.7	1143.4	1122.3	1100.6	1097.8	1089.1
42.5°	3587.2	2933.6	1344.6	947.9	990.7	1084.3	1095.8	1051.7	1012.8	994.5	986.8
45°	3741.8	2939.9	1146.3	862.9	927.8	1048.3	1060.8	1001.7	947.0	907.6	894.6
47.5°	3944.0	2985.0	992.1	800.0	879.7	1024.3	1042.1	961.9	890.8	834.6	822.6
50°	4208.6	3074.3	866.8	752.0	848.5	1008.4	1028.6	923.0	844.7	777.0	765.0
52.5°	4502.5	3156.4	765.5	713.1	818.3	980.6	1011.3	895.1	801.5	723.7	710.7
55°	4708.0	3093.5	683.8	672.8	778.9	940.7	987.3	871.6	739.5	671.8	660.3
57.5°	4747.4	2878.4	621.9	631.0	731.4	890.8	950.3	819.2	705.9	649.2	637.2
60°	4639.8	2578.7	575.8	592.6	680.5	827.9	881.2	782.3	673.7	625.2	615.2
62.5°	4369.5	2271.9	541.7	558.0	632.9	764.0	838.0	743.4	641.1	597.9	587.8
65°	3823.5	1907.4	509.0	527.3	588.7	708.8	799.1	707.4	608.9	575.8	566.2
67.5°	2886.1	1428.6	478.3	494.6	549.4	660.8	756.8	671.8	577.7	556.6	545.0
70°	1699.5	894.6	443.2	460.5	508.1	610.8	711.7	632.9	538.8	529.2	514.3
72.5°	790.9	538.3	403.4	420.2	456.2	544.1	653.6	582.0	492.7	471.6	451.4
75°	472.0	393.8	356.3	371.2	396.7	473.0	580.6	530.2	449.0	421.1	400.0
77.5°	353.0	301.1	304.5	320.3	341.0	413.9	514.3	489.3	415.4	393.8	379.4
80°	254.0	228.6	248.3	265.6	287.2	376.5	492.7	452.4	375.5	346.7	333.3
82.5°	169.5	164.2	186.8	204.6	225.7	329.4	462.9	396.2	320.8	284.3	254.5
85°	93.6	98.9	125.8	133.5	151.7	231.9	379.4	318.4	241.5	194.5	185.8
87.5°	38.9	45.6	67.7	65.3	80.7	138.3	249.7	192.1	153.7	114.8	89.3
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)