

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: P269279

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16736.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 171
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: 25 FT

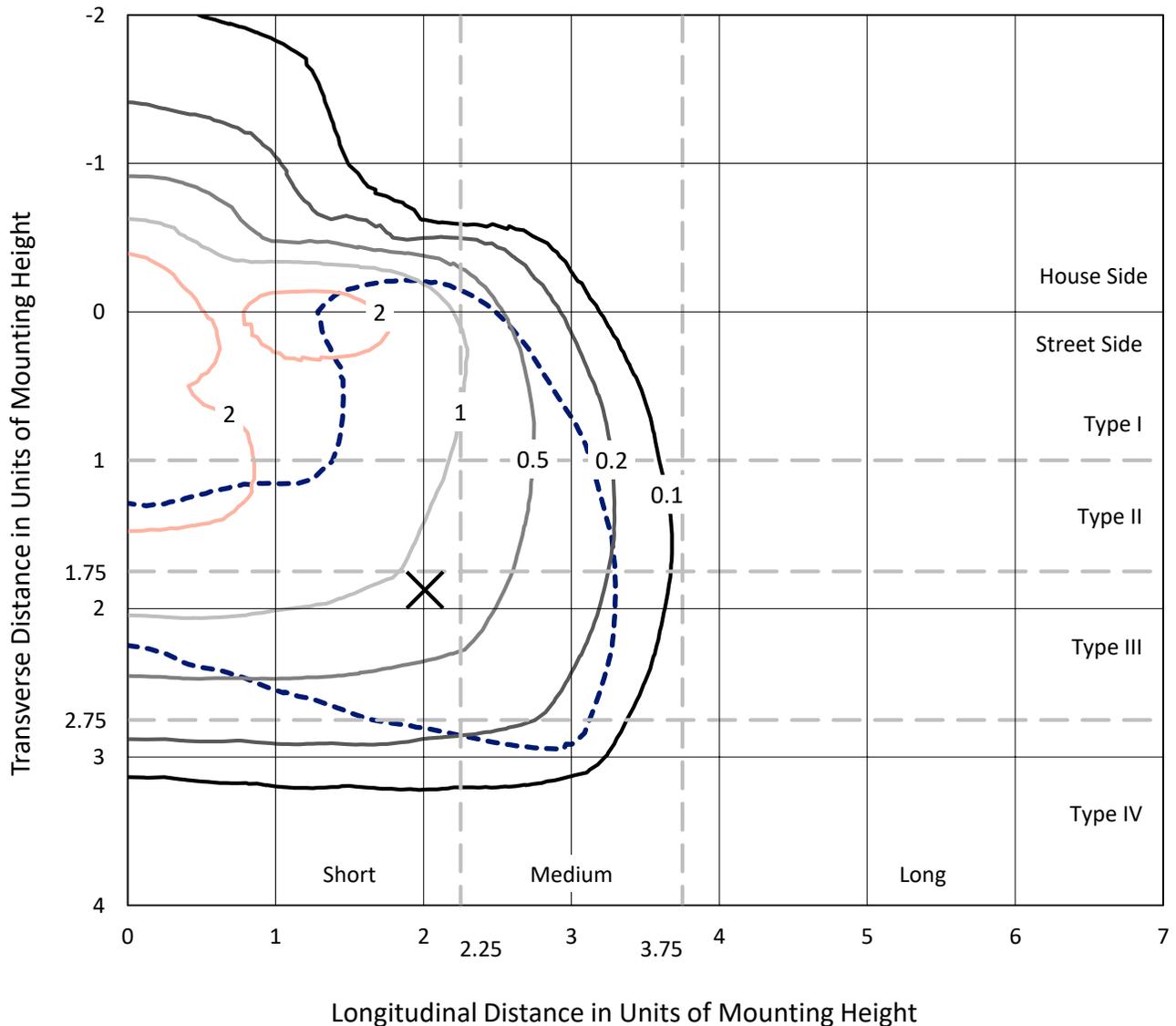


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

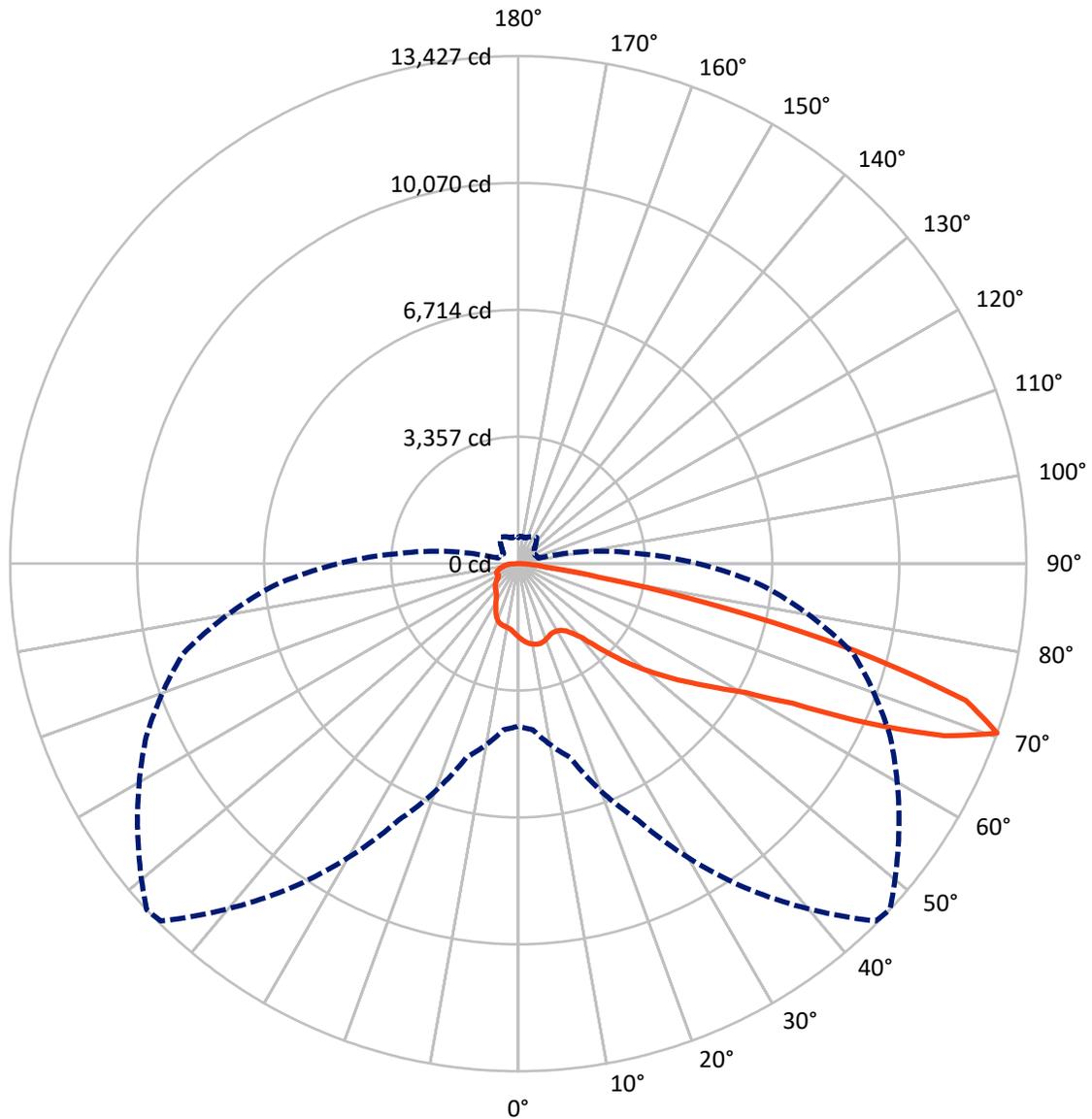


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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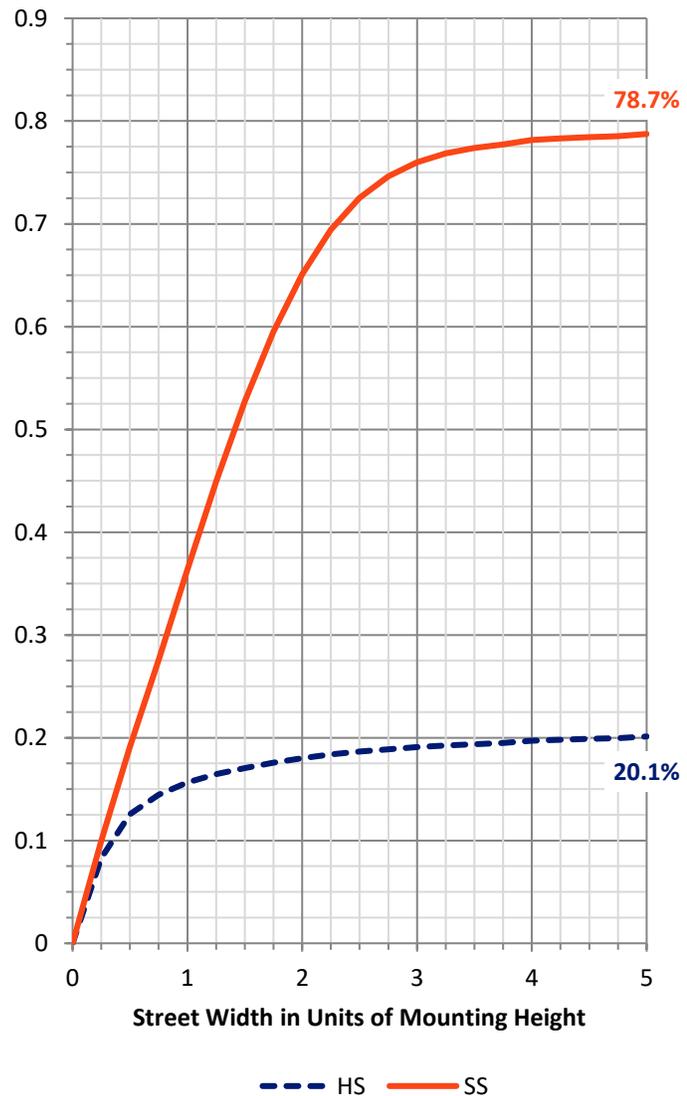
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.5	0.0	3491.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13244.7	0.0	13244.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	16736.2	0.0	16736.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.1
10°-20°	545.9	3.3
20°-30°	806.1	4.8
30°-40°	1171.7	7.0
40°-50°	2108.6	12.6
50°-60°	3652.9	21.8
60°-70°	5213.8	31.2
70°-80°	2676.5	16.0
80°-90°	374.7	2.2
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°	16736.2	100.0
0°-180°	16736.2	100.0



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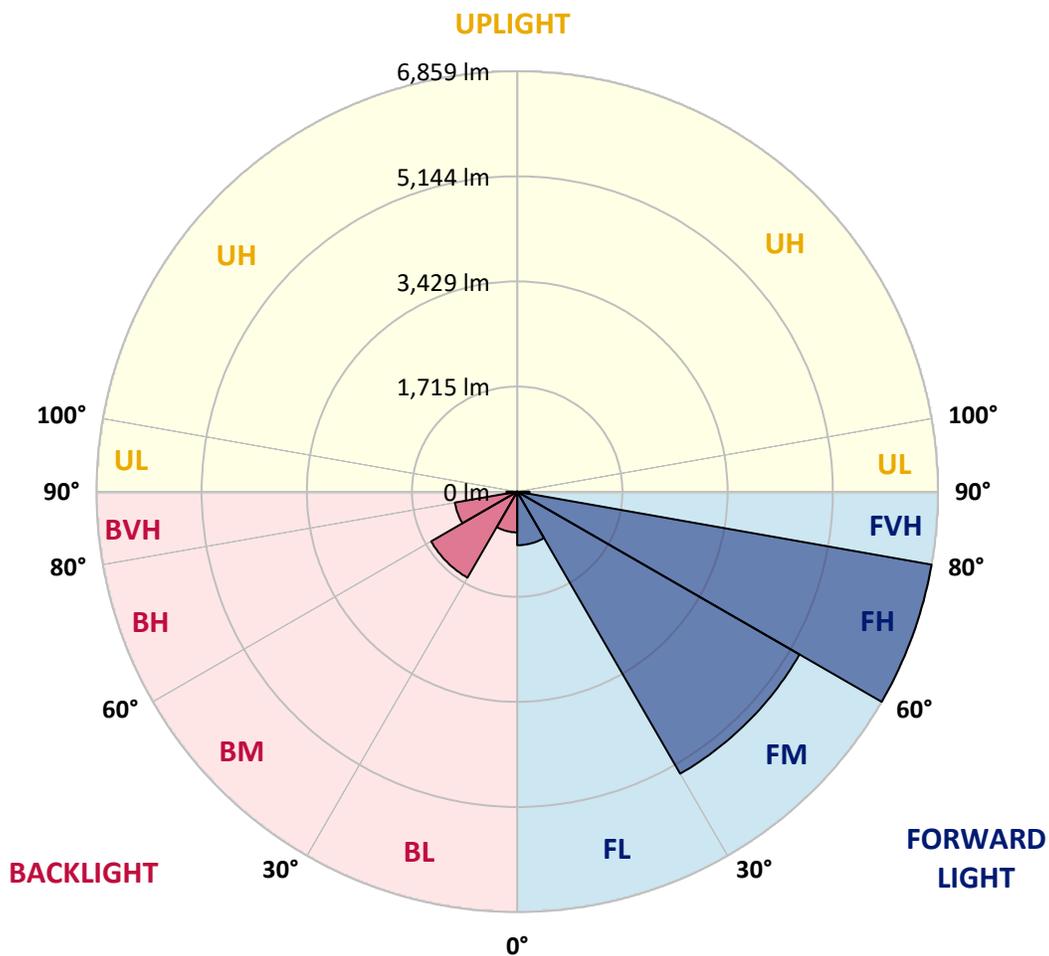
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.3	5.2			
FM (30°-60°)	5312.5	31.7			
FH (60°-80°)	6859.0	41.0			G3/7500
FVH (80°-90°)	199.9	1.2			G2/225
BL (0°-30°)	664.8	4.0	B2/1000		
BM (30°-60°)	1620.6	9.7	B2/2500		
BH (60°-80°)	1031.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	174.8	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0
2.5°	2056.0	2051.9	2050.2	2047.0	2042.8	2022.5	2018.4	2003.8	1983.5	1962.3	1940.2
5°	2191.1	2190.2	2181.4	2165.1	2139.0	2094.2	2083.6	2047.7	1999.7	1953.4	1906.9
7.5°	2309.9	2302.6	2285.5	2252.9	2207.3	2146.3	2131.7	2082.0	2016.1	1952.5	1889.9
10°	2397.0	2393.1	2355.5	2310.8	2251.3	2183.7	2166.6	2111.2	2038.9	1958.2	1880.1
12.5°	2446.8	2438.5	2395.4	2341.7	2270.8	2204.9	2187.8	2131.7	2050.2	1958.2	1866.1
15°	2443.5	2437.8	2394.6	2336.0	2264.4	2206.5	2191.1	2134.9	2047.7	1950.1	1848.4
17.5°	2378.4	2380.8	2344.1	2286.4	2227.6	2183.7	2169.9	2117.8	2031.4	1933.8	1827.2
20°	2264.4	2275.8	2251.3	2199.9	2167.5	2137.3	2128.4	2084.3	2006.3	1910.2	1804.3
22.5°	2150.4	2161.0	2151.3	2108.1	2103.1	2085.2	2080.4	2048.6	1984.3	1895.6	1790.5
25°	2066.6	2076.3	2074.6	2037.1	2051.9	2051.0	2047.0	2031.4	1979.3	1895.6	1792.8
27.5°	2043.7	2047.0	2043.7	2009.5	2029.9	2046.1	2042.8	2040.4	1994.1	1919.0	1823.9
30°	2121.8	2116.9	2091.8	2022.5	2041.3	2064.0	2060.8	2062.4	2038.1	1981.0	1893.1
32.5°	2433.7	2411.7	2331.9	2137.3	2087.8	2099.9	2101.6	2128.4	2132.4	2076.3	2000.5
35°	2900.3	2875.8	2772.3	2445.0	2231.7	2189.4	2189.4	2230.1	2254.6	2213.1	2167.5
37.5°	3394.4	3367.7	3312.3	2871.8	2534.7	2344.9	2341.0	2369.4	2404.5	2414.1	2425.6
40°	3956.3	3927.7	3943.3	3350.5	2957.3	2614.4	2556.7	2536.4	2630.7	2693.5	2784.7
42.5°	4571.0	4558.0	4563.7	3883.8	3438.4	3017.4	2935.3	2830.2	2944.3	3055.8	3247.2
45°	5140.2	5151.6	5145.9	4454.6	3974.2	3509.3	3422.3	3218.6	3330.1	3521.5	3833.3
47.5°	5638.5	5591.3	5664.5	5078.3	4574.3	4059.7	3952.3	3679.5	3792.6	4028.8	4556.5
50°	6243.5	6236.9	6129.5	5910.5	5299.8	4612.5	4471.8	4155.7	4331.6	4659.8	5467.5
52.5°	6879.4	6761.4	6662.8	6557.7	6069.2	5179.3	5006.7	4630.6	4965.1	5378.0	6578.1
55°	7009.7	6956.7	7078.9	7255.5	6810.9	5767.9	5566.8	5225.7	5678.4	6198.7	7858.9
57.5°	7288.0	7287.3	7539.7	7854.8	7574.7	6392.5	6189.7	5944.7	6480.5	7139.1	9218.6
60°	7476.2	7529.1	7998.1	8609.5	8324.7	7113.9	6927.4	6774.4	7392.3	8190.2	10485.6
62.5°	7574.7	7646.4	8286.3	8915.8	9384.8	8314.8	8128.5	7907.7	8599.0	9343.2	11226.5
65°	7165.2	7306.1	8241.6	9180.4	10312.9	10261.7	10177.7	9790.2	10107.8	10254.3	10958.7
67.5°	6031.8	6175.8	7265.3	8933.6	10975.8	12139.2	12157.1	11495.3	11035.9	10332.5	9213.7
70°	4297.5	4410.7	5311.9	7490.1	10471.0	13366.3	13427.3	12280.9	10851.2	9163.3	6437.3
72.5°	2040.4	2109.7	2963.0	4874.7	8309.1	12246.8	12364.8	11277.9	9226.9	6784.1	3511.7
75°	749.8	771.0	1001.5	2073.8	4819.3	9031.4	9170.5	8084.4	6116.5	3377.4	1337.8
77.5°	449.4	463.3	561.8	875.3	1895.6	5162.2	5368.2	4396.8	2673.0	1257.2	657.9
80°	314.2	324.1	403.0	544.7	895.6	1967.2	2150.4	1794.5	1065.0	795.4	478.7
82.5°	212.4	217.4	283.3	368.0	595.1	702.7	758.0	798.0	718.1	592.0	303.6
85°	139.2	144.1	192.1	242.6	378.6	363.2	371.3	469.9	524.4	402.3	168.5
87.5°	79.8	83.1	115.6	129.4	185.6	153.9	155.5	247.6	335.4	271.2	102.5
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°	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0	1942.0
2.5°	1934.6	1924.0	1900.5	1885.7	1871.9	1868.7	1862.9	1862.1	1861.3	1861.3	1858.9
5°	1891.4	1873.5	1836.9	1816.6	1799.5	1797.8	1797.0	1801.0	1802.7	1804.3	1801.9
7.5°	1863.8	1839.3	1793.7	1764.5	1744.1	1739.2	1747.4	1766.1	1778.3	1783.1	1780.7
10°	1846.6	1816.6	1763.6	1731.8	1714.8	1712.3	1722.9	1744.9	1770.1	1779.9	1779.1
12.5°	1827.2	1792.8	1736.8	1703.4	1693.6	1698.4	1712.3	1732.7	1758.7	1774.2	1775.1
15°	1807.6	1767.7	1709.8	1680.5	1676.4	1683.1	1696.0	1711.5	1731.8	1747.4	1749.0
17.5°	1783.9	1742.4	1684.6	1654.5	1651.3	1654.5	1655.2	1663.4	1676.4	1691.1	1695.2
20°	1758.7	1716.4	1656.1	1626.0	1611.4	1598.4	1583.6	1585.2	1589.5	1604.1	1607.2
22.5°	1740.8	1698.4	1634.1	1592.7	1553.6	1514.5	1485.2	1481.0	1482.7	1494.9	1499.0
25°	1742.4	1697.6	1628.4	1556.9	1471.3	1408.6	1369.6	1363.0	1362.2	1371.2	1376.8
27.5°	1774.2	1729.3	1649.6	1520.1	1381.8	1288.9	1247.3	1242.4	1236.0	1238.5	1245.0
30°	1844.9	1803.4	1700.9	1482.7	1284.8	1171.7	1128.5	1123.6	1114.6	1110.7	1115.4
32.5°	1960.6	1926.4	1775.8	1446.9	1188.0	1071.5	1027.5	1017.1	1011.2	1006.5	1010.5
35°	2152.8	2138.1	1876.0	1407.9	1102.5	994.2	954.3	938.0	929.8	938.8	945.2
37.5°	2454.1	2462.3	2007.1	1346.6	1036.6	943.0	909.4	890.8	878.5	885.9	893.3
40°	2880.8	2886.4	2152.0	1260.4	979.5	912.8	876.9	859.8	842.7	829.7	828.9
42.5°	3440.9	3383.0	2294.5	1166.8	913.5	894.1	854.1	833.0	806.9	771.0	763.7
45°	4105.3	3902.5	2402.7	1059.3	839.5	871.3	828.9	799.6	758.9	719.8	715.7
47.5°	4870.7	4460.4	2455.6	947.7	770.2	837.8	798.0	751.5	700.1	680.6	678.2
50°	5805.3	5122.2	2480.8	839.5	710.0	793.8	753.1	698.6	655.5	651.5	648.9
52.5°	6869.6	5918.7	2489.1	750.8	660.3	736.9	716.5	663.6	629.4	632.6	632.6
55°	7983.4	6740.9	2378.4	686.3	614.7	678.2	692.1	649.7	621.3	634.3	639.1
57.5°	9006.1	7469.6	2029.9	636.7	571.6	633.5	683.2	662.8	643.2	696.1	699.4
60°	9791.0	7900.5	1516.1	592.0	539.8	618.0	706.7	712.4	717.3	843.6	860.7
62.5°	9955.5	7757.1	1042.3	556.9	525.1	631.0	749.8	750.8	745.1	833.0	843.6
65°	9200.7	6850.8	758.0	537.4	512.9	654.7	786.6	769.5	731.9	798.8	779.2
67.5°	7306.9	5161.3	631.0	522.8	495.1	653.0	825.6	786.6	724.7	782.5	750.8
70°	4742.8	3120.9	561.8	510.5	473.9	622.0	848.4	784.8	703.6	727.8	690.4
72.5°	2314.0	1395.5	515.4	492.6	451.8	578.9	847.6	770.2	681.5	679.8	659.5
75°	905.4	639.1	473.0	465.7	414.5	530.1	824.9	749.0	655.5	629.4	622.0
77.5°	530.1	456.0	419.2	425.8	369.7	481.2	791.4	712.4	619.7	588.7	580.6
80°	385.9	341.1	357.4	368.0	315.9	432.4	746.6	667.7	579.8	595.1	583.8
82.5°	247.6	219.8	289.9	300.5	263.1	382.7	697.9	620.4	523.5	475.6	464.2
85°	126.2	139.2	215.8	228.8	202.7	314.2	638.3	557.8	460.0	395.8	402.3
87.5°	70.8	95.3	137.6	153.9	143.3	241.9	517.9	460.0	375.3	305.3	268.8
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)