

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: P269242

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13060.5 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

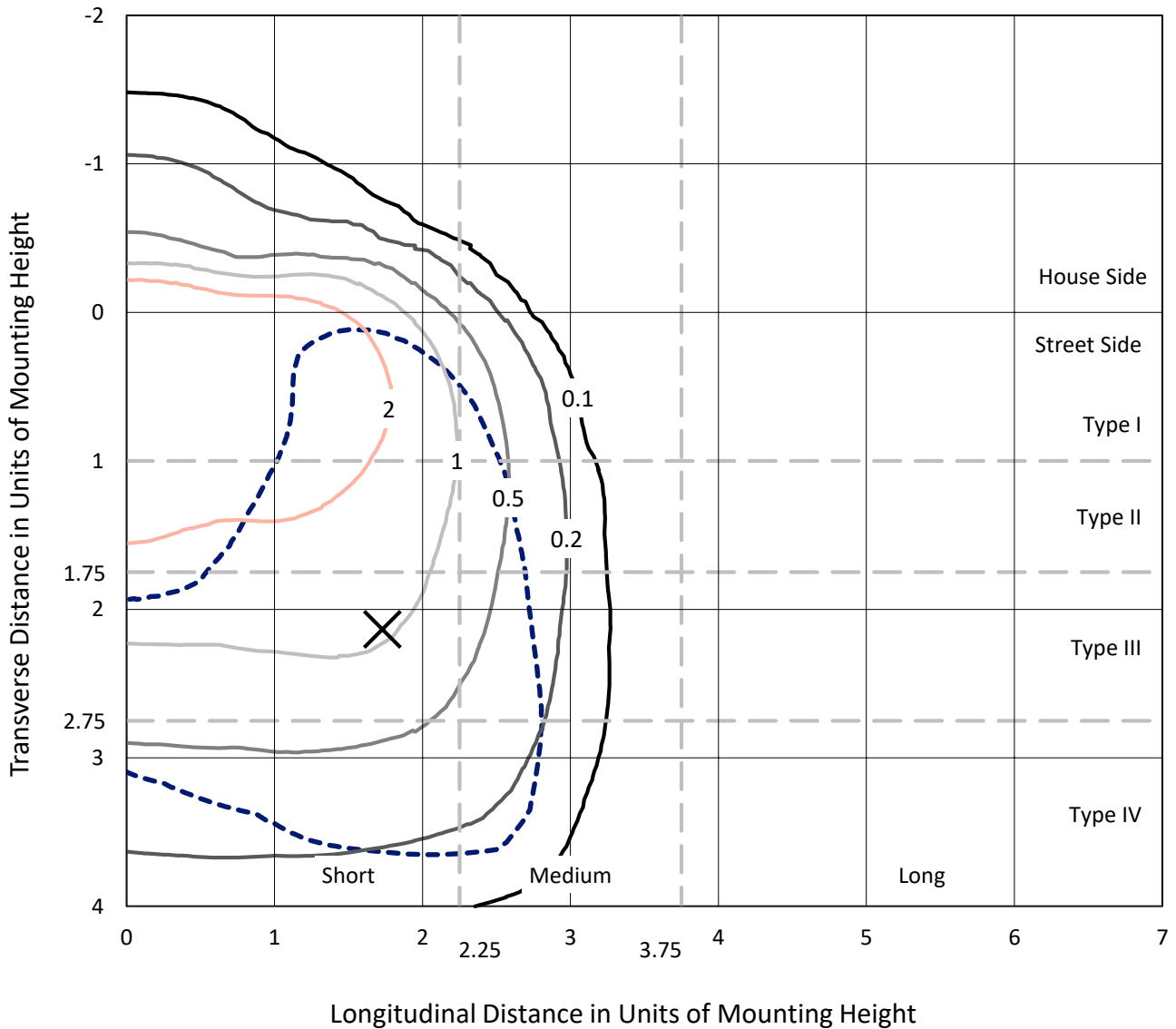
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

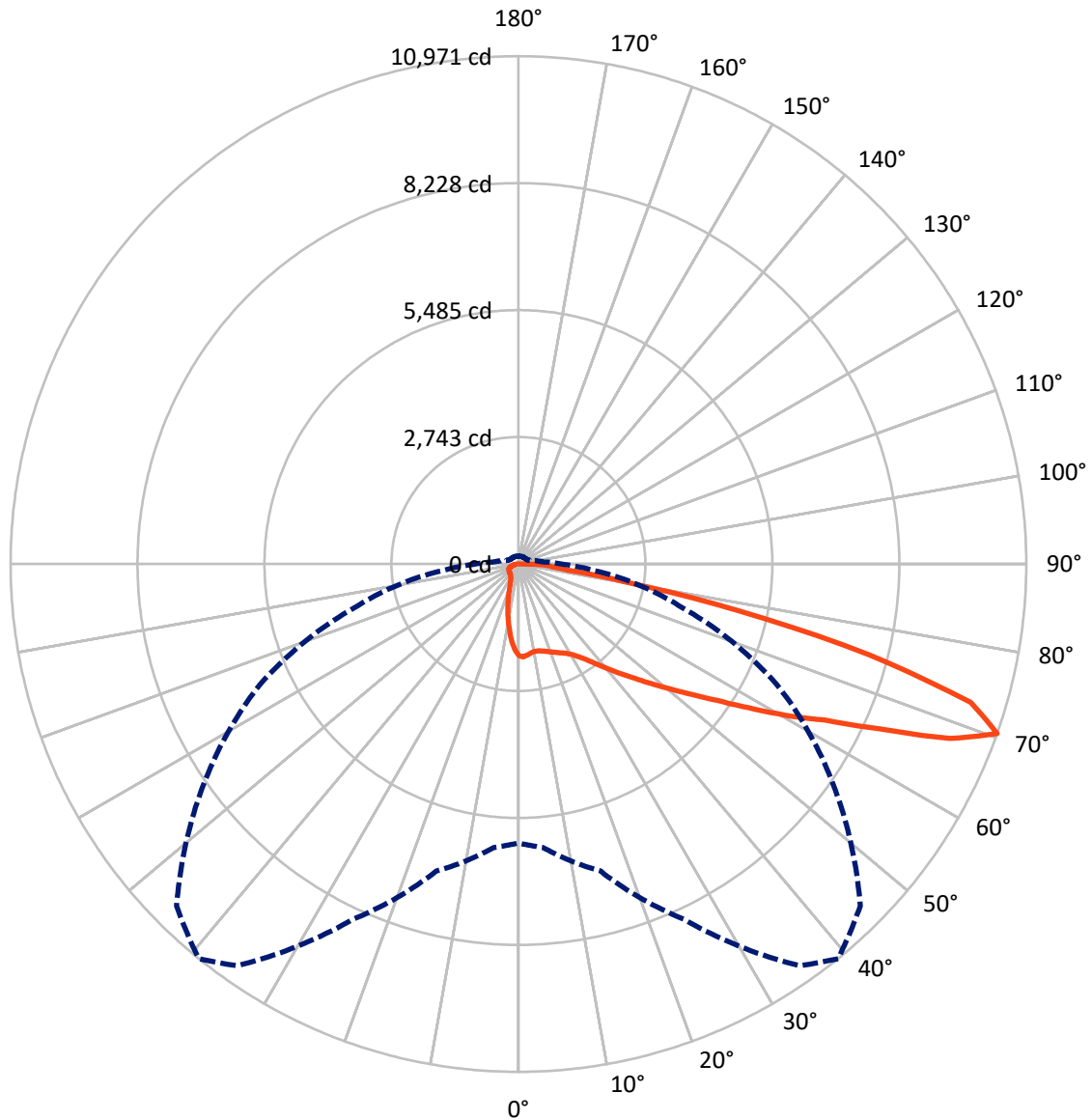
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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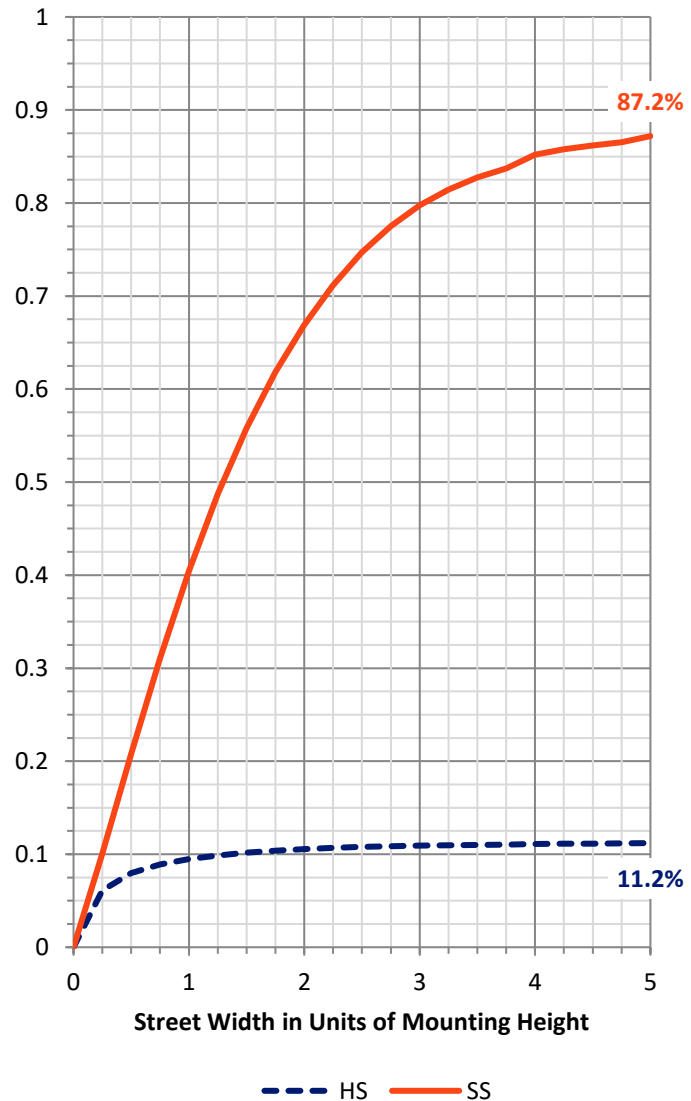
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.4	0.0	1485.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	11575.1	0.0	11575.1
	% Fixture	88.6	0.0	88.6
Total	Lumens	13060.5	0.0	13060.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.3
10°-20°	425.3	3.3
20°-30°	662.3	5.1
30°-40°	1031.7	7.9
40°-50°	1732.0	13.3
50°-60°	2751.5	21.1
60°-70°	3670.2	28.1
70°-80°	2216.3	17.0
80°-90°	401.1	3.1
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°	13060.5	100.0
0°-180°	13060.5	100.0



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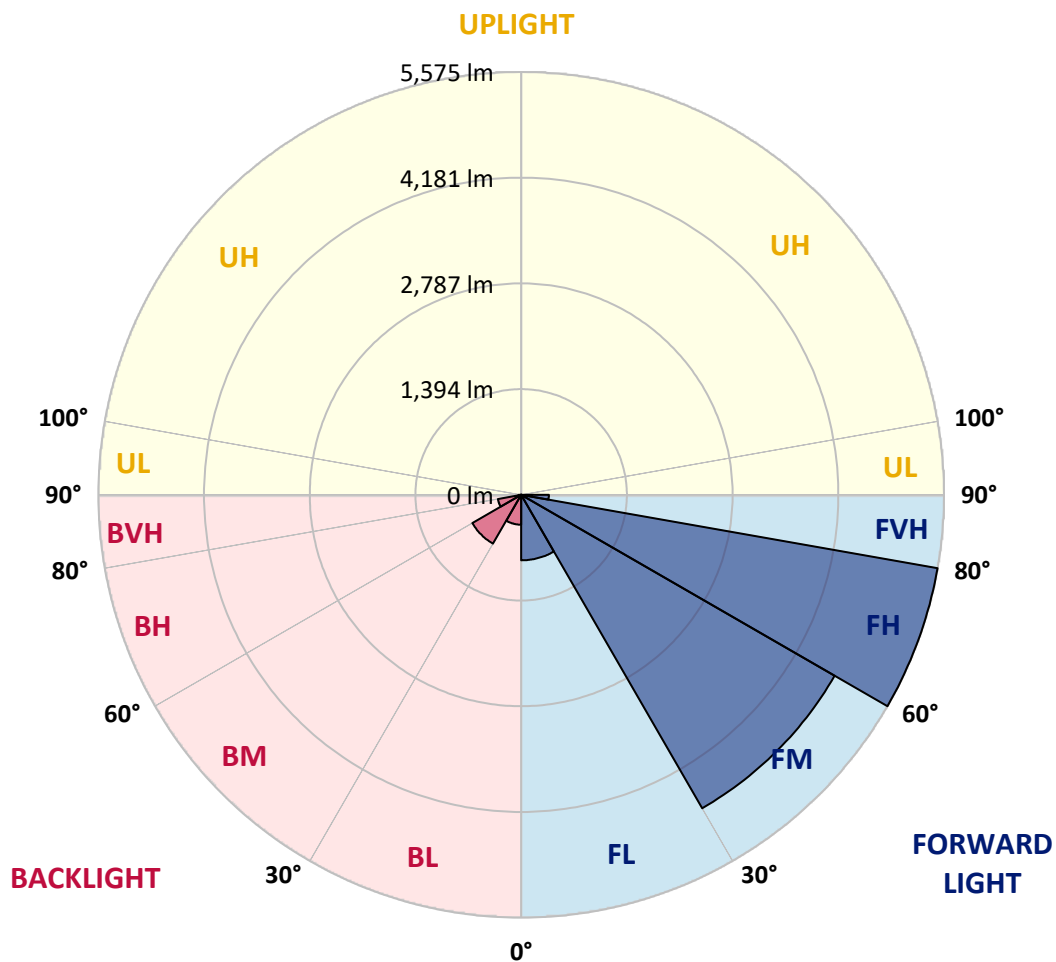
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.7	6.6			
FM	(30°-60°)	4771.8	36.5			
FH	(60°-80°)	5574.6	42.7			G3/7500
FVH	(80°-90°)	365.0	2.8			G3/500
BL	(0°-30°)	394.1	3.0	B1/500		
BM	(30°-60°)	743.4	5.7	B1/1000		
BH	(60°-80°)	311.8	2.4	B1/500		G1/500
BVH	(80°-90°)	36.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7
2.5°	2021.2	2020.6	2015.3	2011.3	2008.0	2006.8	2009.4	1999.4	1990.7	1980.1	1968.8
5°	2006.1	2005.3	1996.8	1988.8	1980.9	1978.2	1977.4	1959.6	1949.0	1933.1	1911.8
7.5°	1989.4	1986.2	1974.8	1961.5	1947.6	1941.0	1934.3	1911.1	1899.1	1883.1	1858.7
10°	1972.1	1968.1	1957.5	1944.3	1930.9	1921.0	1909.7	1887.2	1874.6	1862.6	1834.1
12.5°	1954.3	1950.8	1948.2	1942.2	1933.1	1924.3	1915.7	1896.5	1883.1	1869.3	1836.0
15°	1951.6	1950.3	1956.1	1960.2	1954.9	1949.6	1940.2	1923.7	1909.7	1895.9	1852.7
17.5°	1972.9	1972.1	1987.4	1998.1	1995.4	1986.2	1973.4	1954.9	1943.7	1931.6	1877.8
20°	2019.3	2022.7	2041.2	2055.2	2041.8	2028.6	2008.0	1982.1	1976.1	1970.8	1903.8
22.5°	2107.0	2110.3	2123.6	2129.0	2094.4	2075.2	2046.6	2013.3	2009.4	2013.3	1934.9
25°	2243.7	2240.5	2238.4	2218.5	2155.5	2125.6	2089.1	2054.6	2056.5	2074.5	1978.7
27.5°	2425.1	2407.1	2379.3	2319.5	2219.3	2185.9	2141.5	2109.6	2122.2	2156.8	2044.5
30°	2613.0	2593.0	2528.5	2431.1	2302.8	2266.3	2216.6	2180.6	2214.0	2268.3	2132.1
32.5°	2786.9	2784.2	2690.0	2564.5	2418.3	2386.5	2336.8	2296.2	2350.0	2433.0	2263.6
35°	2976.9	2982.8	2869.9	2719.2	2574.5	2541.2	2505.5	2474.8	2546.5	2660.8	2454.3
37.5°	3180.0	3191.9	3058.5	2888.5	2752.3	2738.5	2717.3	2704.0	2814.7	2972.9	2720.5
40°	3451.6	3439.7	3254.4	3079.7	2970.9	2970.2	2963.6	2979.5	3164.1	3380.6	3062.5
42.5°	3742.5	3707.2	3462.2	3284.9	3210.6	3233.2	3246.5	3311.5	3584.4	3875.9	3479.6
45°	4055.8	3976.8	3678.1	3502.1	3476.9	3524.7	3569.9	3711.3	4079.2	4439.8	3936.4
47.5°	4306.3	4229.8	3901.2	3729.9	3785.0	3857.3	3944.4	4168.1	4633.0	5022.1	4387.2
50°	4503.5	4453.6	4126.3	3995.5	4124.3	4235.9	4378.0	4685.4	5209.4	5589.2	4804.9
52.5°	4694.7	4657.5	4353.4	4267.8	4522.7	4676.8	4870.0	5240.5	5800.4	6146.9	5156.2
55°	4867.3	4840.7	4597.7	4607.0	4991.5	5192.1	5435.0	5872.7	6444.4	6644.4	5453.7
57.5°	5061.9	5028.1	4876.7	5032.7	5593.7	5854.2	6170.2	6583.1	7048.7	7086.5	5680.2
60°	5257.8	5228.6	5186.1	5524.0	6358.7	6632.4	6931.9	7271.8	7661.6	7429.8	5666.9
62.5°	5427.7	5431.2	5506.2	6040.1	7107.7	7424.5	7789.7	8125.8	8216.1	7489.6	5247.9
65°	5715.9	5768.5	5992.2	6770.4	8162.3	8585.9	9034.2	8980.4	8369.5	6931.1	4349.5
67.5°	6058.6	6151.0	6604.5	7743.8	9494.9	10057.5	10230.7	9173.6	7755.2	5634.3	3100.4
70°	6024.2	6151.0	6868.7	8469.7	10593.4	10970.6	10444.6	8302.3	6158.2	3680.7	1646.9
72.5°	5349.4	5530.8	6330.1	8137.0	10247.3	10214.1	9067.3	6189.4	3658.7	1478.2	643.5
75°	4077.1	4260.4	4948.4	6428.5	8099.2	7820.3	6433.8	3419.0	1388.5	587.0	405.8
77.5°	2345.4	2487.4	3018.7	3942.3	5138.2	4852.0	3581.2	1520.7	676.0	409.1	316.7
80°	1309.5	1388.5	1711.2	2000.0	2517.9	2308.1	1602.2	944.8	504.7	296.8	244.3
82.5°	1035.2	1105.6	1383.8	1261.7	1150.1	1061.1	920.4	841.4	403.1	187.2	146.1
85°	904.5	971.4	1171.4	993.3	785.6	720.5	747.7	828.1	313.4	112.8	124.9
87.5°	837.9	927.7	1043.9	765.6	611.6	541.9	689.9	907.7	100.9	70.3	50.5
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°	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7	1982.7
2.5°	1958.9	1948.2	1930.9	1915.7	1891.8	1879.3	1865.3	1855.3	1847.4	1840.6	1851.2
5°	1898.5	1878.5	1842.1	1802.9	1756.4	1719.8	1689.4	1660.7	1640.8	1627.5	1636.8
7.5°	1841.3	1808.8	1751.8	1680.6	1601.0	1533.2	1477.4	1428.3	1394.4	1372.5	1381.1
10°	1808.8	1768.4	1680.0	1568.4	1450.9	1345.3	1257.6	1182.0	1129.4	1099.6	1104.2
12.5°	1800.8	1748.5	1626.2	1472.9	1312.2	1165.5	1041.9	936.9	863.2	824.7	826.0
15°	1806.9	1739.7	1575.7	1381.1	1177.9	992.7	838.7	711.2	625.5	581.7	581.1
17.5°	1816.8	1733.1	1522.6	1282.2	1041.9	826.7	654.8	529.9	454.3	419.0	416.4
20°	1827.4	1722.5	1462.9	1175.3	900.5	672.7	512.7	415.0	367.1	348.0	346.7
22.5°	1842.8	1713.2	1401.0	1062.4	761.7	547.8	421.7	355.9	330.7	320.8	319.3
25°	1867.2	1708.5	1335.4	944.8	636.8	458.1	367.1	326.8	312.2	305.5	304.7
27.5°	1908.4	1715.3	1273.5	830.8	535.2	397.8	336.7	312.2	301.6	295.5	294.9
30°	1961.5	1735.7	1208.5	722.4	456.2	356.5	318.1	302.1	293.4	287.5	287.5
32.5°	2049.8	1770.3	1140.2	628.9	399.7	328.1	304.2	293.4	286.2	281.6	280.9
35°	2179.9	1835.3	1076.3	551.1	359.2	307.4	292.2	284.3	279.0	276.1	276.1
37.5°	2369.3	1938.4	1019.9	495.3	334.7	293.4	280.9	274.9	271.6	271.6	271.6
40°	2623.6	2080.5	974.1	458.1	320.8	283.5	272.2	267.6	265.5	266.3	266.3
42.5°	2937.6	2264.9	943.6	432.3	314.0	277.5	266.3	262.2	260.2	259.6	260.2
45°	3295.6	2474.8	940.3	413.0	307.4	273.5	262.2	258.4	254.3	251.6	251.6
47.5°	3643.5	2688.0	967.5	406.5	300.2	269.0	259.0	254.9	249.0	243.0	243.0
50°	3950.9	2869.2	1004.0	409.1	297.5	262.2	253.6	251.6	242.4	235.7	235.0
52.5°	4195.4	3008.8	1033.9	417.1	300.2	257.6	247.0	247.8	237.7	230.4	229.7
55°	4391.3	3100.4	1026.0	425.0	306.1	254.9	241.0	242.4	234.4	227.1	227.1
57.5°	4477.0	3066.5	937.7	418.3	310.8	255.7	236.4	241.7	235.0	228.3	228.3
60°	4293.0	2765.7	772.3	389.1	304.7	253.6	234.4	244.3	243.7	237.1	236.4
62.5°	3736.5	2227.2	599.0	345.9	284.3	243.7	229.1	243.7	250.9	249.0	248.3
65°	2879.8	1586.3	457.4	299.4	256.3	227.1	215.1	228.3	238.4	241.0	240.3
67.5°	1869.3	972.1	352.7	255.7	225.1	207.9	197.2	203.1	205.3	205.3	203.8
70°	919.1	523.3	280.9	215.1	193.2	187.2	181.3	178.0	174.6	171.9	171.9
72.5°	453.6	342.0	231.0	181.9	166.6	164.0	162.8	158.7	156.0	152.7	151.5
75°	335.3	278.3	196.5	153.4	143.4	140.8	143.4	140.1	139.4	136.8	135.5
77.5°	275.6	237.1	169.3	131.5	122.9	118.1	122.2	122.9	123.4	119.6	118.1
80°	223.8	200.5	141.5	109.0	100.9	97.6	100.3	105.6	106.9	100.9	98.3
82.5°	161.3	164.0	114.3	85.0	78.3	75.6	80.9	87.7	89.0	80.4	78.3
85°	135.5	136.8	87.7	60.5	53.8	49.8	58.4	65.0	69.7	61.1	59.1
87.5°	56.5	80.4	50.5	33.9	29.9	26.0	31.3	34.6	41.9	38.4	37.9
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)