

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: P193781

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193781
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-03-LED-E1-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 11384 lumens
Efficiency: N/A
Efficacy: 91.8 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): 124
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

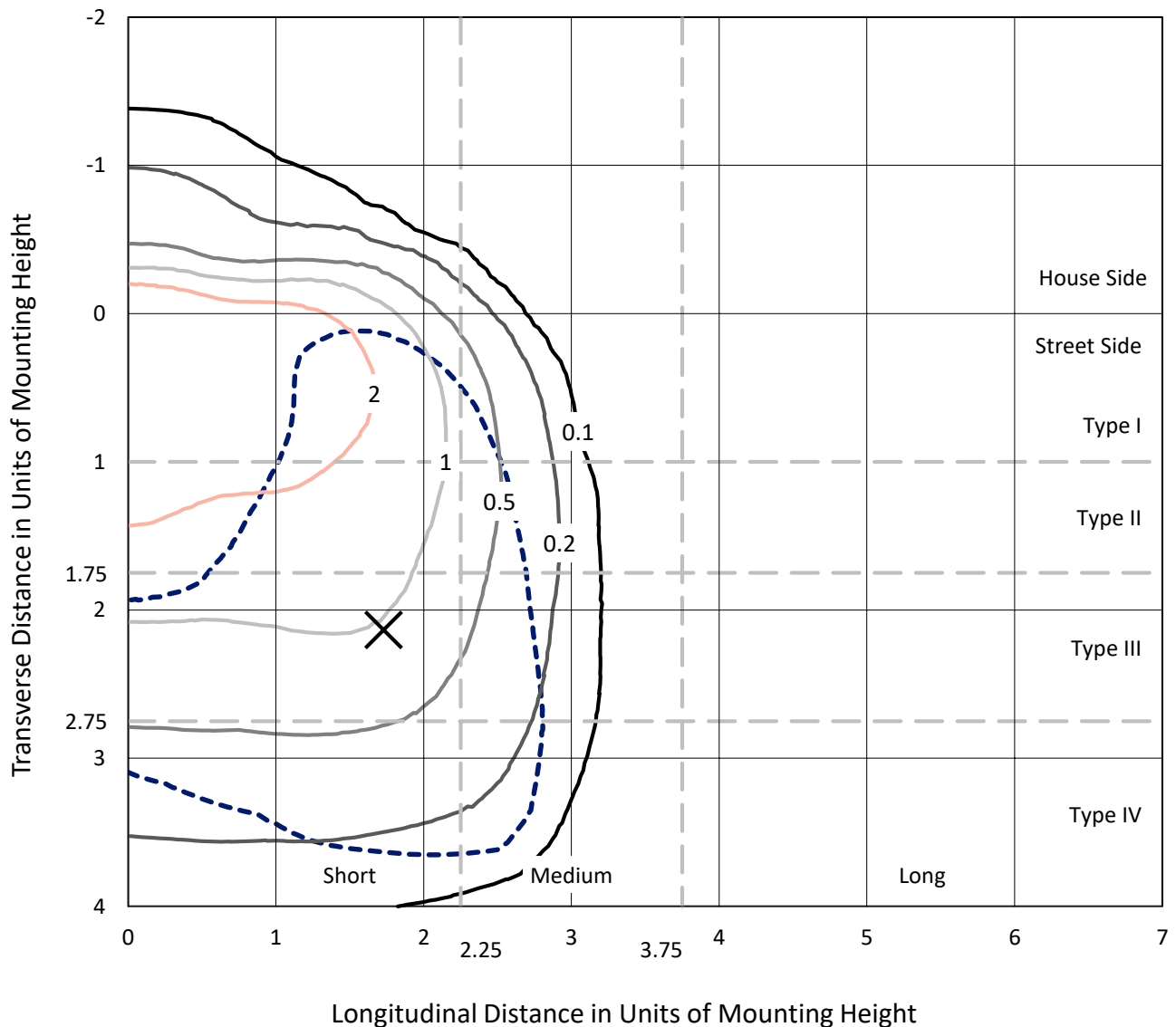


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

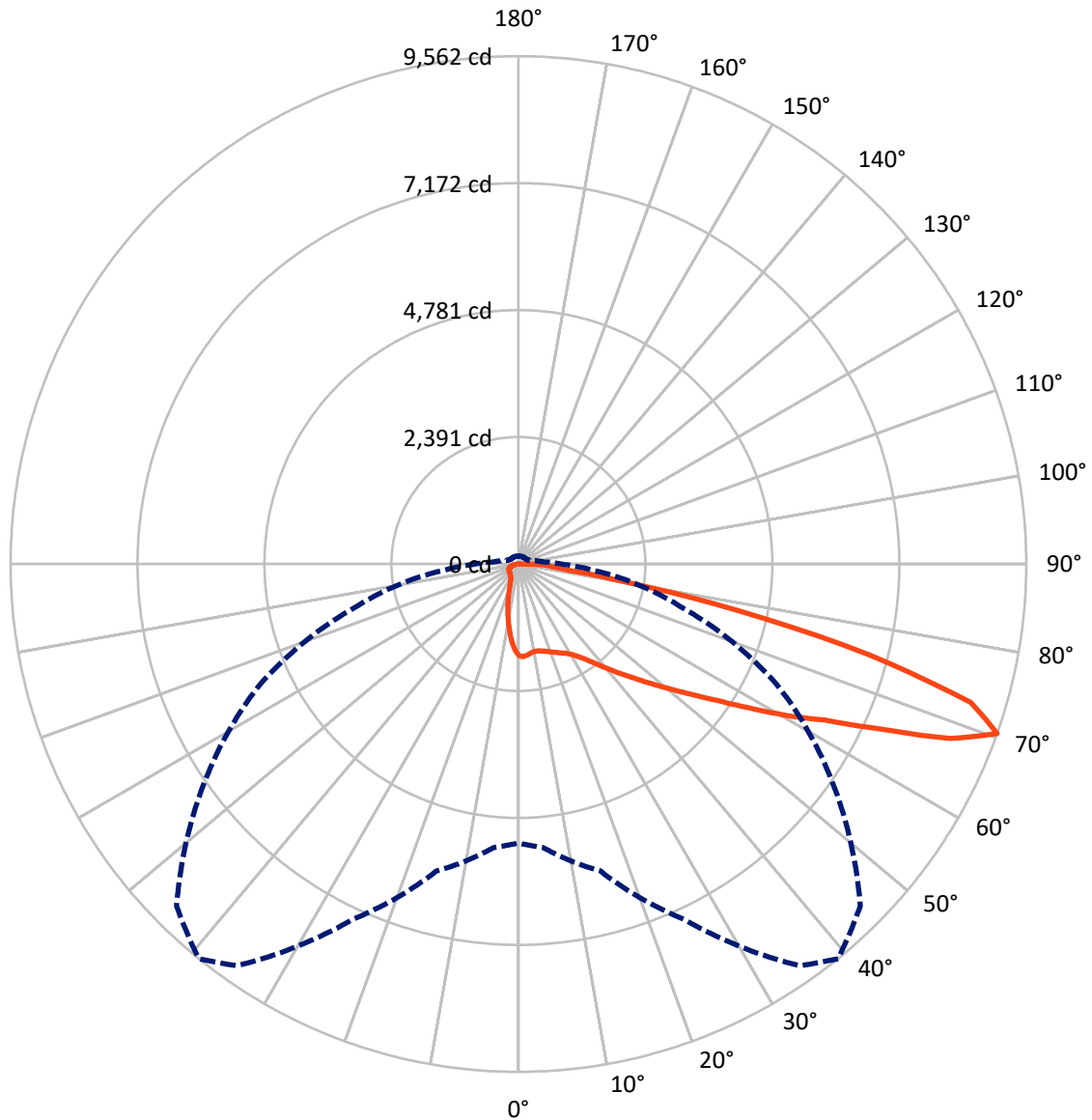


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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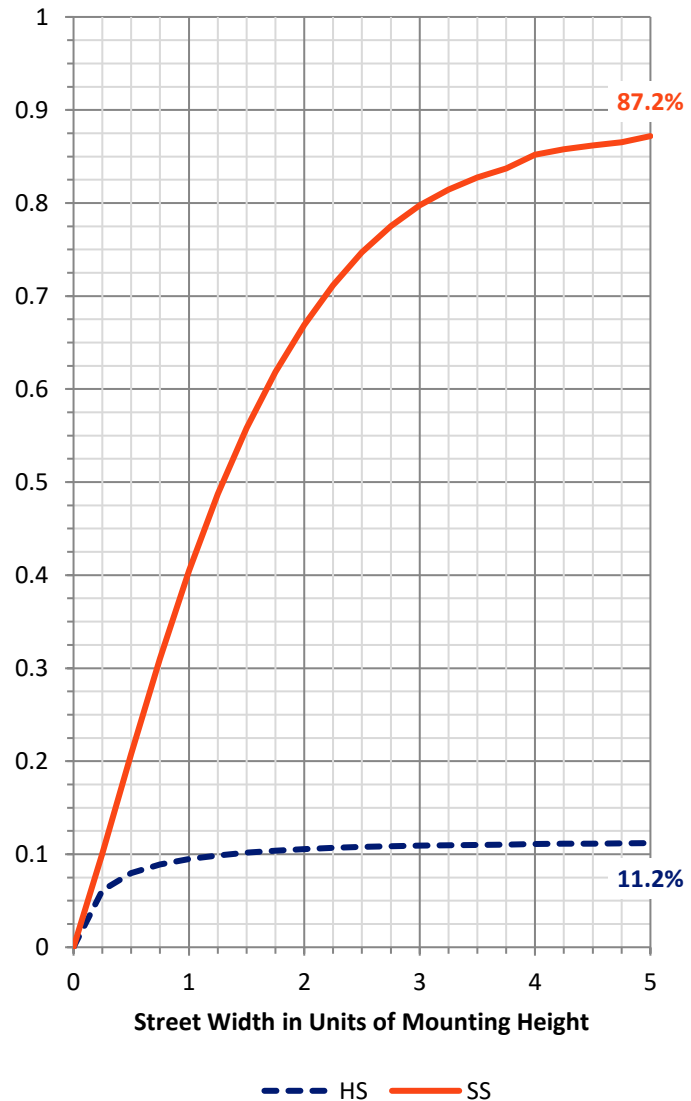
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1294.7	0.0	1294.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10089.3	0.0	10089.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	11384.0	0.0	11384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.3
10°-20°	370.7	3.3
20°-30°	577.3	5.1
30°-40°	899.3	7.9
40°-50°	1509.7	13.3
50°-60°	2398.3	21.1
60°-70°	3199.0	28.1
70°-80°	1931.8	17.0
80°-90°	349.6	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°	11384.0	100.0
0°-180°	11384.0	100.0



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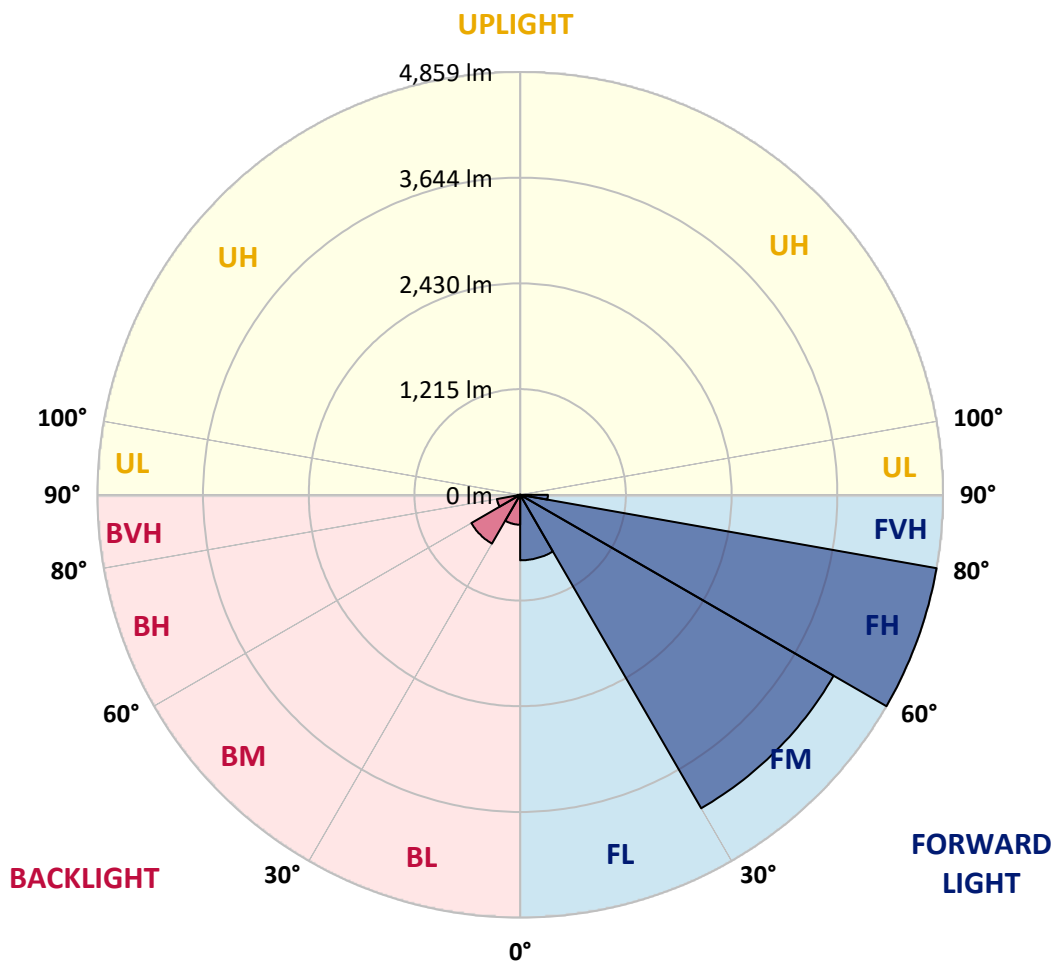
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.8	6.6			
FM	(30°-60°)	4159.3	36.5			
FH	(60°-80°)	4859.0	42.7			G2/5000
FVH	(80°-90°)	318.1	2.8			G3/500
BL	(0°-30°)	343.5	3.0	B1/500		
BM	(30°-60°)	647.9	5.7	B1/1000		
BH	(60°-80°)	271.8	2.4	B1/500		G1/500
BVH	(80°-90°)	31.5	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°	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1761.8	1761.3	1756.6	1753.2	1750.3	1749.1	1751.4	1742.7	1735.2	1726.0	1716.1
5°	1748.5	1747.9	1740.4	1733.5	1726.5	1724.2	1723.6	1708.0	1698.7	1684.9	1666.3
7.5°	1734.1	1731.2	1721.3	1709.7	1697.6	1691.8	1686.0	1665.8	1655.3	1641.4	1620.0
10°	1719.0	1715.5	1706.3	1694.7	1683.1	1674.4	1664.6	1644.9	1633.9	1623.5	1598.6
12.5°	1703.4	1700.5	1698.2	1693.0	1684.9	1677.3	1669.8	1653.0	1641.4	1629.3	1600.4
15°	1701.1	1699.9	1705.1	1708.6	1704.0	1699.3	1691.2	1676.8	1664.6	1652.4	1614.8
17.5°	1719.6	1719.0	1732.3	1741.6	1739.3	1731.2	1720.2	1704.0	1694.1	1683.7	1636.8
20°	1760.1	1763.0	1779.2	1791.4	1779.8	1768.2	1750.3	1727.7	1722.5	1717.8	1659.4
22.5°	1836.5	1839.4	1851.0	1855.6	1825.5	1808.7	1783.8	1754.9	1751.4	1754.9	1686.6
25°	1955.7	1952.8	1951.1	1933.7	1878.8	1852.7	1820.9	1790.8	1792.5	1808.1	1724.8
27.5°	2113.7	2098.1	2073.8	2021.7	1934.3	1905.4	1866.6	1838.8	1849.8	1879.9	1782.1
30°	2277.5	2260.2	2204.0	2119.0	2007.2	1975.4	1932.0	1900.7	1929.7	1977.1	1858.5
32.5°	2429.2	2426.9	2344.7	2235.3	2108.0	2080.2	2036.8	2001.5	2048.3	2120.7	1973.1
35°	2594.7	2599.9	2501.5	2370.1	2244.0	2215.0	2183.8	2157.2	2219.7	2319.2	2139.2
37.5°	2771.8	2782.2	2665.9	2517.7	2399.1	2386.9	2368.4	2356.8	2453.5	2591.2	2371.3
40°	3008.6	2998.1	2836.7	2684.4	2589.5	2588.9	2583.1	2597.0	2757.9	2946.6	2669.4
42.5°	3262.1	3231.4	3017.8	2863.3	2798.5	2818.1	2829.7	2886.4	3124.3	3378.4	3032.9
45°	3535.3	3466.4	3205.9	3052.5	3030.5	3072.2	3111.6	3234.9	3555.5	3869.8	3431.1
47.5°	3753.5	3686.9	3400.4	3251.1	3299.1	3362.2	3438.0	3633.1	4038.2	4377.4	3824.1
50°	3925.4	3881.9	3596.6	3482.6	3594.9	3692.1	3816.0	4083.9	4540.6	4871.7	4188.1
52.5°	4092.0	4059.6	3794.5	3719.9	3942.1	4076.4	4244.8	4567.8	5055.7	5357.9	4494.3
55°	4242.5	4219.4	4007.5	4015.6	4350.8	4525.6	4737.4	5118.8	5617.2	5791.4	4753.6
57.5°	4412.1	4382.6	4250.6	4386.7	4875.7	5102.6	5378.1	5738.1	6143.9	6176.8	4951.0
60°	4582.9	4557.4	4520.4	4815.0	5542.5	5781.0	6042.0	6338.3	6678.1	6476.1	4939.4
62.5°	4731.0	4733.9	4799.3	5264.7	6195.4	6471.5	6789.8	7082.7	7161.4	6528.2	4574.2
65°	4982.2	5028.0	5223.0	5901.3	7114.5	7483.8	7874.4	7827.6	7295.1	6041.4	3791.1
67.5°	5280.9	5361.3	5756.6	6749.9	8276.1	8766.4	8917.4	7996.0	6759.7	4911.0	2702.4
70°	5250.8	5361.3	5987.0	7382.5	9233.4	9562.2	9103.8	7236.6	5367.7	3208.2	1435.4
72.5°	4662.7	4820.7	5517.6	7092.5	8931.9	8903.0	7903.4	5394.9	3189.1	1288.4	560.8
75°	3553.8	3713.5	4313.1	5603.3	7059.5	6816.4	5607.9	2980.2	1210.3	511.7	353.6
77.5°	2044.3	2168.1	2631.2	3436.3	4478.7	4229.2	3121.4	1325.4	589.2	356.5	276.1
80°	1141.4	1210.3	1491.5	1743.3	2194.8	2011.9	1396.6	823.6	439.9	258.7	213.0
82.5°	902.3	963.7	1206.2	1099.7	1002.5	924.9	802.2	733.3	351.3	163.2	127.3
85°	788.3	846.8	1021.0	865.9	684.7	628.0	651.7	721.8	273.2	98.4	108.8
87.5°	730.4	808.6	909.9	667.3	533.1	472.3	601.4	791.2	88.0	61.4	44.0
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°	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1707.4	1698.2	1683.1	1669.8	1649.0	1638.0	1625.8	1617.1	1610.2	1604.4	1613.7
5°	1654.8	1637.4	1605.6	1571.4	1530.9	1499.1	1472.4	1447.6	1430.2	1418.6	1426.7
7.5°	1605.0	1576.6	1526.8	1464.9	1395.5	1336.4	1287.8	1245.0	1215.5	1196.4	1203.9
10°	1576.6	1541.3	1464.3	1367.1	1264.7	1172.6	1096.2	1030.2	984.5	958.5	962.5
12.5°	1569.7	1524.0	1417.5	1283.8	1143.7	1015.8	908.1	816.7	752.4	718.9	720.0
15°	1574.9	1516.4	1373.5	1203.9	1026.8	865.3	731.0	619.9	545.2	507.0	506.4
17.5°	1583.6	1510.6	1327.2	1117.6	908.1	720.6	570.7	461.9	395.9	365.2	362.9
20°	1592.8	1501.4	1275.1	1024.5	784.8	586.3	446.8	361.7	320.1	303.3	302.1
22.5°	1606.1	1493.3	1221.2	926.1	663.9	477.5	367.5	310.2	288.2	279.6	278.4
25°	1627.6	1489.2	1163.9	823.6	555.1	399.4	320.1	284.8	272.0	266.2	265.7
27.5°	1663.4	1495.0	1110.1	724.1	466.5	346.7	293.4	272.0	262.8	257.6	257.0
30°	1709.7	1513.0	1053.4	629.7	397.6	310.8	277.2	263.3	255.8	250.6	250.6
32.5°	1786.7	1543.1	993.8	548.1	348.4	285.9	265.1	255.8	249.5	245.4	244.8
35°	1900.2	1599.8	938.2	480.4	313.1	268.0	254.7	247.7	243.1	240.8	240.8
37.5°	2065.1	1689.5	889.0	431.8	291.7	255.8	244.8	239.6	236.7	236.7	236.7
40°	2286.8	1813.3	849.1	399.4	279.6	247.1	237.3	233.3	231.5	232.1	232.1
42.5°	2560.6	1974.3	822.5	376.8	273.8	241.9	232.1	228.6	226.9	226.3	226.9
45°	2872.5	2157.2	819.6	360.0	268.0	238.5	228.6	225.1	221.7	219.4	219.4
47.5°	3175.8	2342.9	843.3	354.2	261.6	234.4	225.7	222.3	217.0	211.8	211.8
50°	3443.8	2501.0	875.1	356.5	259.3	228.6	221.1	219.4	211.3	205.5	204.9
52.5°	3656.8	2622.5	901.2	363.5	261.6	224.6	215.3	215.9	207.2	200.8	200.3
55°	3827.5	2702.4	894.2	370.4	266.8	222.3	210.1	211.3	204.3	197.9	197.9
57.5°	3902.2	2672.9	817.3	364.6	270.9	222.8	206.0	210.7	204.9	199.1	199.1
60°	3741.9	2410.7	673.1	339.2	265.7	221.1	204.3	213.0	212.4	206.6	206.0
62.5°	3256.9	1941.3	522.1	301.5	247.7	212.4	199.7	212.4	218.8	217.0	216.5
65°	2510.2	1382.7	398.8	261.0	223.4	197.9	187.5	199.1	207.8	210.1	209.5
67.5°	1629.3	847.3	307.3	222.8	196.2	181.2	171.9	177.1	178.8	178.8	177.7
70°	801.0	456.1	244.8	187.5	168.4	163.2	158.0	155.1	152.2	149.9	149.9
72.5°	395.3	298.1	201.4	158.6	145.3	143.0	141.8	138.3	136.0	133.1	132.0
75°	292.3	242.5	171.3	133.7	125.0	122.7	125.0	122.1	121.5	119.2	118.1
77.5°	240.2	206.6	147.6	114.6	107.1	103.0	106.5	107.1	107.7	104.2	103.0
80°	195.1	174.8	123.3	94.9	88.0	85.1	87.4	92.0	93.2	88.0	85.7
82.5°	140.6	143.0	99.6	74.1	68.3	66.0	70.6	76.4	77.6	70.0	68.3
85°	118.1	119.2	76.4	52.7	46.9	43.4	50.9	56.7	60.8	53.2	51.5
87.5°	49.2	70.0	44.0	29.5	26.0	22.6	27.2	30.1	36.5	33.6	33.0
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)