

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: P191179

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6993.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

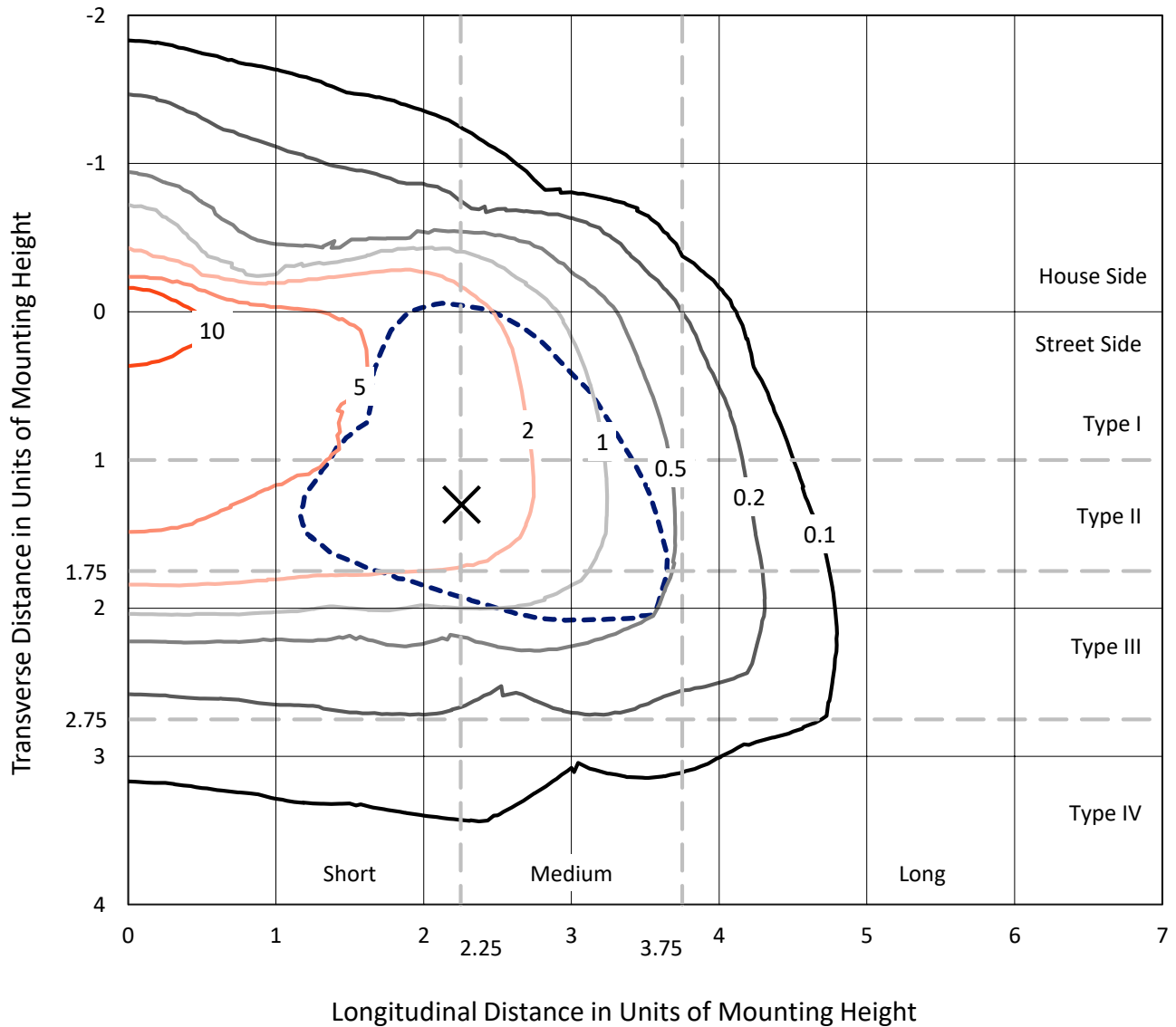
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

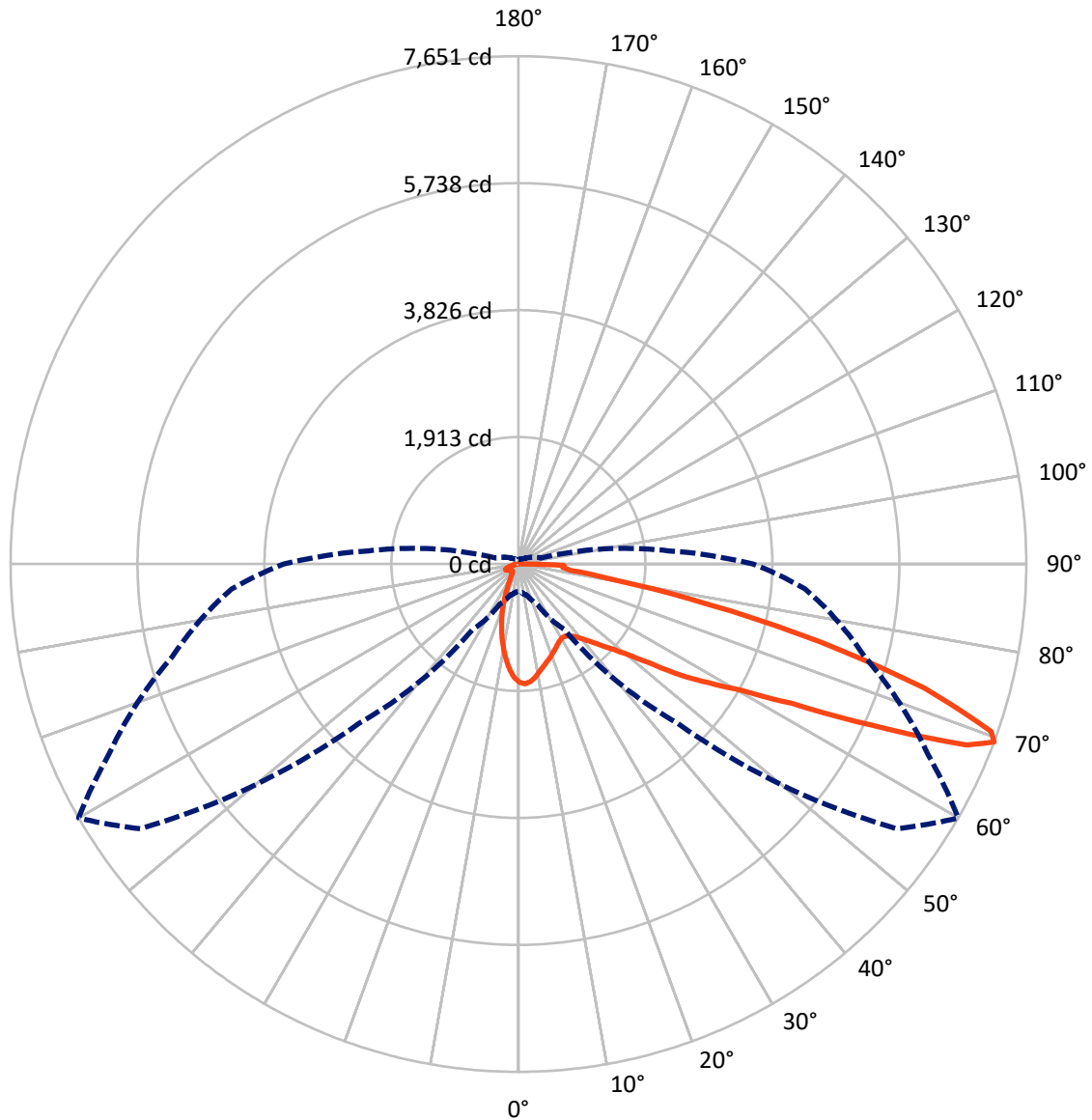
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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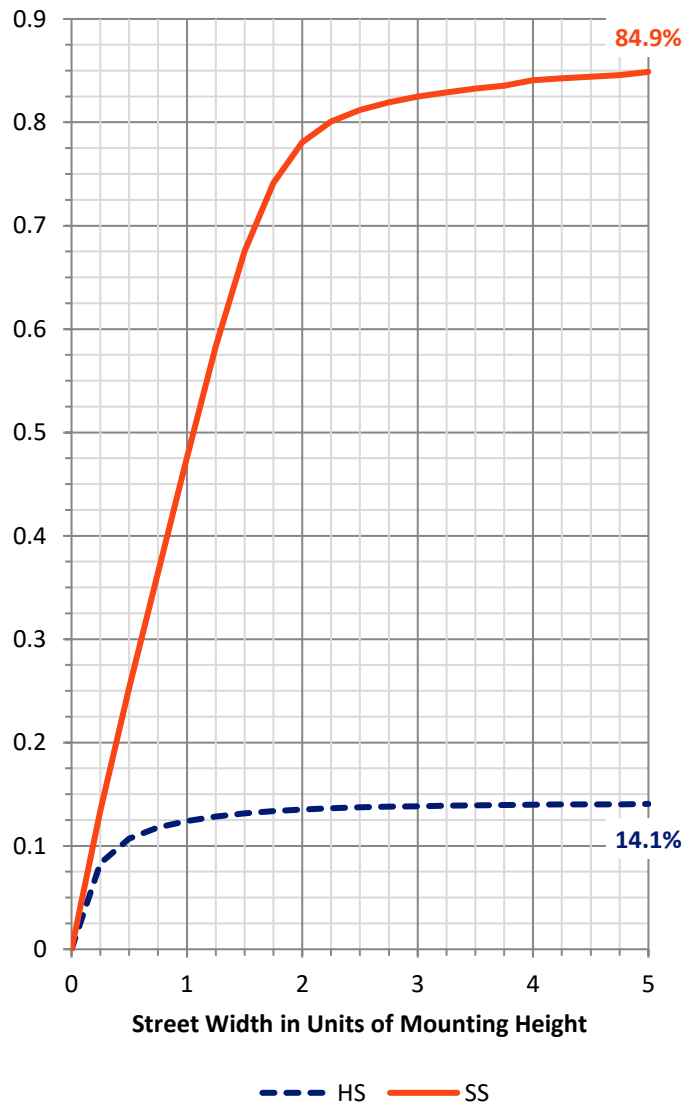
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.0	0.0	995.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	5998.9	0.0	5998.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	6993.9	0.0	6993.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	2.2
10°-20°	321.1	4.6
20°-30°	409.1	5.8
30°-40°	562.4	8.0
40°-50°	912.5	13.0
50°-60°	1463.4	20.9
60°-70°	1947.7	27.8
70°-80°	1051.6	15.0
80°-90°	175.5	2.5
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°	6993.9	100.0
0°-180°	6993.9	100.0

Coefficient of Utilization



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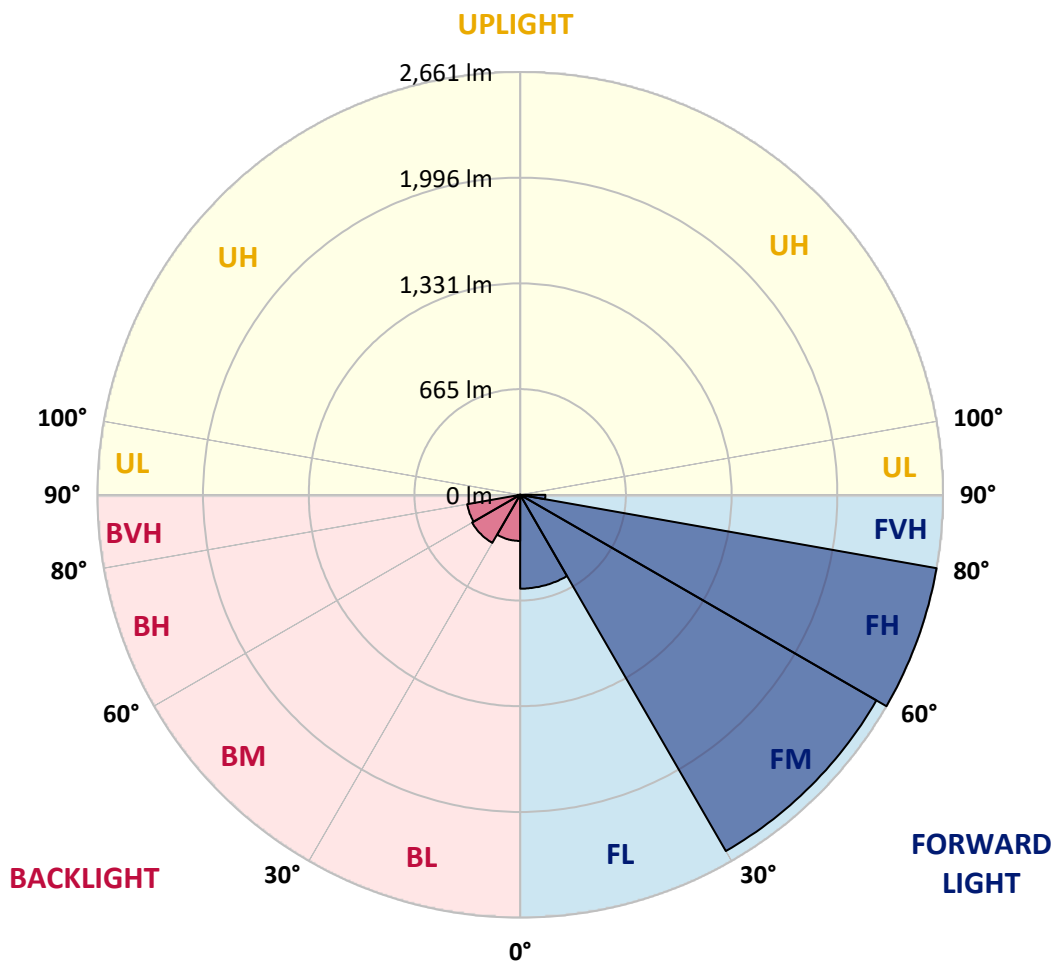
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.5	8.4			
FM	(30°-60°)	2588.7	37.0			
FH	(60°-80°)	2661.0	38.0			G2/5000
FVH	(80°-90°)	158.6	2.3			G2/225
BL	(0°-30°)	290.3	4.2	B1/500		
BM	(30°-60°)	349.6	5.0	B1/1000		
BH	(60°-80°)	338.3	4.8	B1/500		G1/500
BVH	(80°-90°)	16.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2
2.5°	1818.6	1822.7	1821.1	1820.0	1823.0	1818.3	1808.5	1805.5	1800.7	1789.6	1770.6
5°	1750.4	1762.5	1761.9	1771.0	1786.2	1790.3	1785.9	1786.6	1777.8	1763.9	1732.5
7.5°	1632.5	1637.5	1640.3	1660.1	1687.9	1710.2	1729.1	1735.2	1731.1	1719.3	1678.8
10°	1510.9	1514.9	1521.3	1544.7	1579.7	1610.5	1646.3	1666.9	1675.7	1673.8	1628.4
12.5°	1406.5	1410.5	1418.9	1445.3	1487.2	1525.0	1577.1	1602.8	1623.7	1636.2	1587.5
15°	1312.9	1321.7	1329.7	1360.2	1407.2	1456.8	1515.6	1548.0	1580.5	1608.5	1551.4
17.5°	1239.9	1248.7	1253.4	1281.1	1331.2	1391.9	1460.9	1499.0	1539.5	1585.6	1515.6
20°	1197.7	1201.8	1199.7	1215.3	1260.2	1324.7	1406.5	1450.7	1499.7	1563.9	1479.8
22.5°	1185.8	1186.2	1178.7	1177.1	1206.2	1260.5	1348.4	1402.1	1462.2	1549.7	1449.0
25°	1214.5	1213.5	1193.3	1176.7	1179.8	1211.5	1292.3	1354.8	1430.8	1546.7	1425.4
27.5°	1278.4	1281.5	1251.4	1220.3	1189.6	1188.6	1249.7	1315.6	1405.1	1560.5	1415.3
30°	1368.0	1373.0	1340.9	1301.4	1243.6	1196.0	1233.2	1292.3	1389.3	1589.3	1413.5
32.5°	1465.9	1471.3	1447.0	1405.4	1329.7	1242.0	1244.6	1294.3	1388.6	1629.5	1425.1
35°	1570.3	1576.4	1563.9	1528.8	1444.6	1326.8	1288.5	1327.1	1410.5	1690.9	1455.8
37.5°	1686.8	1696.4	1699.7	1666.3	1576.4	1438.6	1360.5	1389.3	1460.2	1776.5	1512.2
40°	1854.8	1868.0	1867.0	1819.0	1727.5	1589.6	1471.7	1479.1	1537.6	1890.6	1602.5
42.5°	2176.4	2179.1	2095.0	1990.6	1893.7	1748.3	1602.8	1596.7	1644.3	2035.2	1735.2
45°	2585.6	2574.5	2387.3	2185.5	2067.3	1930.8	1773.4	1743.6	1779.8	2211.5	1901.5
47.5°	2925.1	2899.5	2662.9	2384.5	2251.1	2129.2	1973.7	1921.7	1941.7	2411.6	2116.3
50°	3043.0	3023.7	2827.8	2550.1	2425.1	2371.0	2220.3	2146.7	2152.1	2650.1	2368.0
52.5°	3017.7	3014.9	2884.2	2659.3	2588.0	2625.1	2569.7	2470.0	2417.3	2915.0	2639.6
55°	2957.9	2963.6	2916.3	2786.2	2774.0	2870.4	3026.1	2952.4	2788.6	3182.2	2920.3
57.5°	2750.1	2764.9	2869.0	2946.0	3073.8	3217.0	3393.7	3372.8	3188.3	3471.1	3254.2
60°	2215.6	2250.1	2529.1	2915.0	3382.2	3830.2	3909.2	3860.6	3600.5	3829.5	3695.1
62.5°	1552.4	1588.2	1920.0	2523.7	3331.5	4522.8	4830.9	4621.1	4192.4	4357.6	4265.7
65°	831.1	848.3	1101.7	1751.1	2812.6	4665.7	6177.9	5858.6	5129.6	5008.6	4753.9
67.5°	458.5	467.9	564.9	884.1	1801.4	4108.6	7036.1	7277.3	6300.9	5442.1	4665.1
69°	414.5	423.3	486.8	669.6	1205.4	3397.1	6952.3	7651.3	6814.4	5399.1	4336.6
70°	405.4	413.5	470.7	617.2	975.7	2800.1	6671.5	7555.6	6936.7	5245.5	4050.2
72.5°	364.9	373.7	429.0	554.4	833.8	1396.0	5284.7	6388.4	6297.9	4548.1	3072.0
75°	340.2	348.3	442.2	542.9	798.3	883.5	3483.9	4708.2	4629.6	3181.5	1656.5
77.5°	145.6	145.0	205.1	459.5	810.2	855.4	1872.0	2941.3	2683.5	1359.8	475.7
80°	97.3	95.6	97.3	135.1	743.0	860.2	980.8	1493.0	1127.7	346.7	234.5
82.5°	83.8	82.4	85.5	82.4	261.2	981.8	833.8	793.9	536.1	196.9	116.2
85°	56.5	54.0	73.7	74.0	123.3	872.4	939.2	670.6	433.8	116.9	57.4
87.5°	27.0	26.4	42.9	52.4	72.3	354.5	1053.7	687.2	437.5	59.8	27.4
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°	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2	1782.2
2.5°	1764.9	1751.1	1737.6	1721.3	1704.4	1685.5	1676.1	1666.6	1664.2	1661.6	1652.1
5°	1716.3	1696.7	1662.9	1625.8	1586.5	1548.3	1519.3	1501.1	1487.2	1480.1	1467.6
7.5°	1653.4	1624.8	1565.6	1501.4	1435.5	1375.4	1323.4	1290.6	1259.5	1244.9	1228.5
10°	1593.7	1550.7	1458.8	1364.2	1269.7	1178.7	1093.3	1032.8	979.1	949.0	927.7
12.5°	1542.3	1483.5	1356.1	1228.1	1098.3	968.9	840.9	740.2	656.1	611.8	589.2
15°	1492.3	1421.3	1258.5	1096.0	929.5	753.4	585.1	471.0	401.4	373.7	364.2
17.5°	1447.0	1356.1	1160.5	962.9	755.1	542.3	393.2	330.4	303.7	294.6	291.5
20°	1398.1	1290.2	1058.9	823.7	573.4	379.1	307.1	279.4	268.6	265.9	264.5
22.5°	1350.7	1225.4	961.5	674.6	411.8	292.6	263.8	252.4	250.7	253.1	253.1
25°	1310.5	1167.3	856.4	518.9	302.4	246.3	236.2	233.4	239.9	248.7	250.3
27.5°	1280.4	1119.6	744.6	383.1	240.9	214.2	213.9	218.3	234.2	251.0	254.4
30°	1259.9	1074.4	625.0	276.4	202.0	188.5	194.0	203.4	226.7	250.7	257.1
32.5°	1249.3	1041.0	500.3	213.9	173.0	165.5	174.6	186.2	209.1	231.4	239.9
35°	1257.5	1016.3	382.8	178.4	152.7	147.0	156.4	167.6	181.1	190.6	196.9
37.5°	1287.9	1006.5	288.9	159.8	138.8	133.5	140.9	147.3	152.7	155.4	158.5
40°	1353.5	1016.9	231.4	150.4	131.0	124.3	127.4	129.7	133.1	135.8	137.2
42.5°	1450.0	1048.3	207.5	146.6	127.1	117.2	116.5	117.5	121.9	127.1	128.1
45°	1585.2	1103.8	205.7	148.9	125.0	111.5	108.4	109.8	116.5	124.3	125.7
47.5°	1757.8	1188.3	219.2	156.1	126.7	108.4	103.4	105.1	113.5	124.0	125.7
50°	1966.9	1306.1	241.9	166.5	134.1	109.1	101.7	102.7	111.5	123.0	124.7
52.5°	2214.0	1473.4	266.6	176.7	141.9	113.5	103.0	100.7	108.7	119.0	120.9
55°	2488.6	1687.9	292.0	185.8	146.0	119.0	105.8	98.0	103.7	112.1	113.9
57.5°	2825.8	1987.9	335.8	194.6	148.6	122.7	108.4	95.2	97.3	103.4	104.8
60°	3282.2	2412.2	413.2	209.1	154.8	124.0	108.1	92.9	90.8	94.2	94.9
62.5°	3829.2	2873.1	477.7	227.4	164.9	125.0	106.1	91.2	85.5	85.5	86.1
65°	4153.9	2996.4	441.9	242.5	173.3	124.0	103.7	89.5	81.4	77.7	78.1
67.5°	3878.5	2635.2	378.7	245.6	173.0	119.3	100.0	86.4	77.3	71.6	71.3
69°	3533.6	2273.7	350.4	237.5	164.9	113.1	95.2	83.1	74.4	68.2	67.9
70°	3255.5	2053.1	331.7	228.7	156.1	108.7	91.6	80.1	71.9	66.2	65.6
72.5°	2367.0	1345.3	283.5	196.6	128.7	91.2	79.1	70.3	64.2	60.8	60.1
75°	1182.8	641.6	230.1	159.5	98.6	72.9	64.9	58.8	55.8	55.0	54.7
77.5°	388.5	293.9	164.5	119.0	73.3	57.1	52.4	48.0	47.3	49.3	48.7
80°	213.5	170.9	104.4	78.8	50.0	41.9	41.2	38.9	39.9	43.3	42.6
82.5°	108.7	88.9	64.5	47.3	33.8	30.1	32.7	31.4	32.7	35.8	35.5
85°	53.7	48.7	40.9	28.7	22.3	19.2	23.3	24.3	25.0	27.4	27.4
87.5°	31.1	28.7	21.6	13.5	11.2	10.1	13.5	13.2	15.5	16.9	16.6
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)