

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: P191110

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7013.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

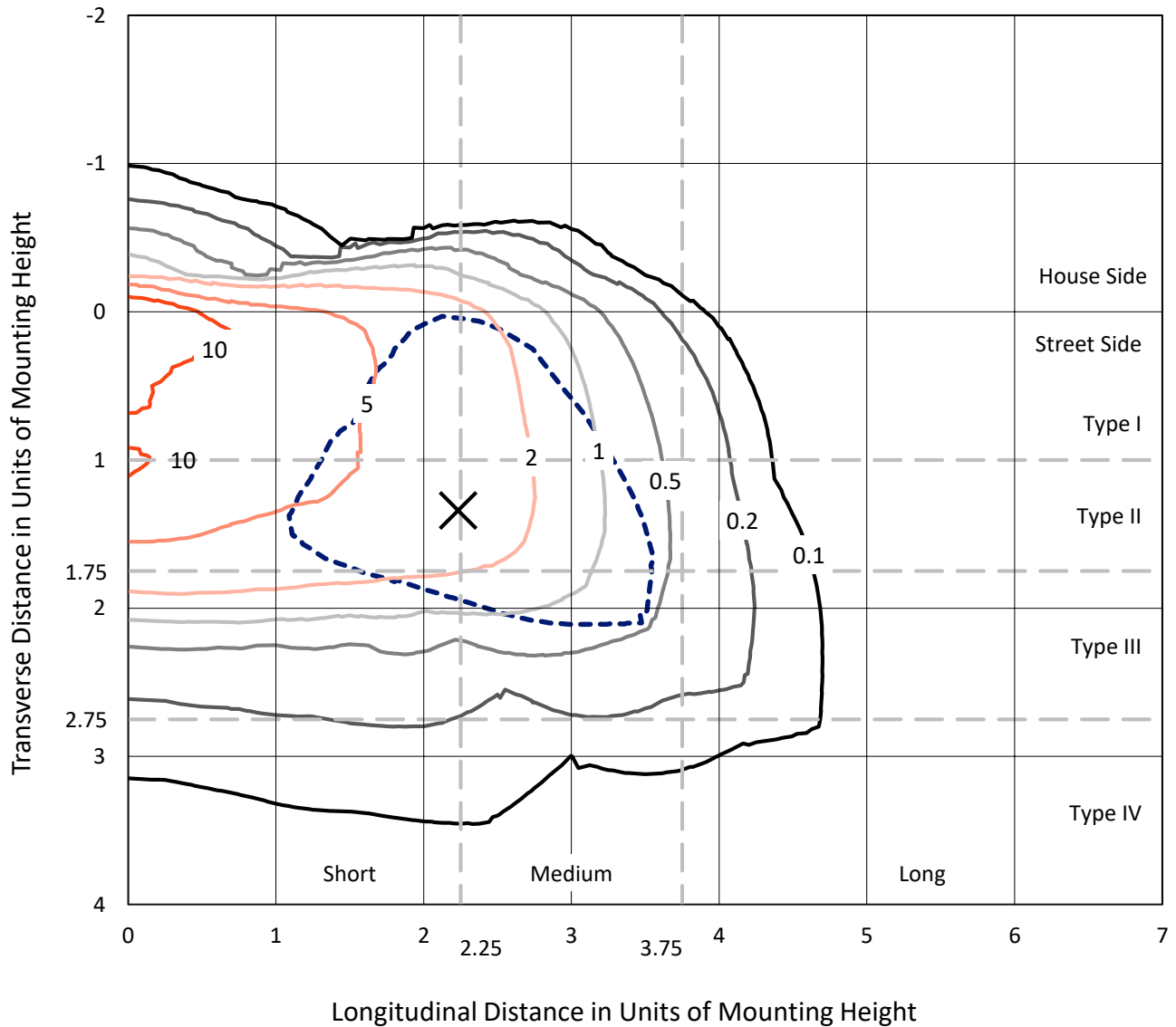


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Iso-Footcandle Lines of Horizontal Illumination

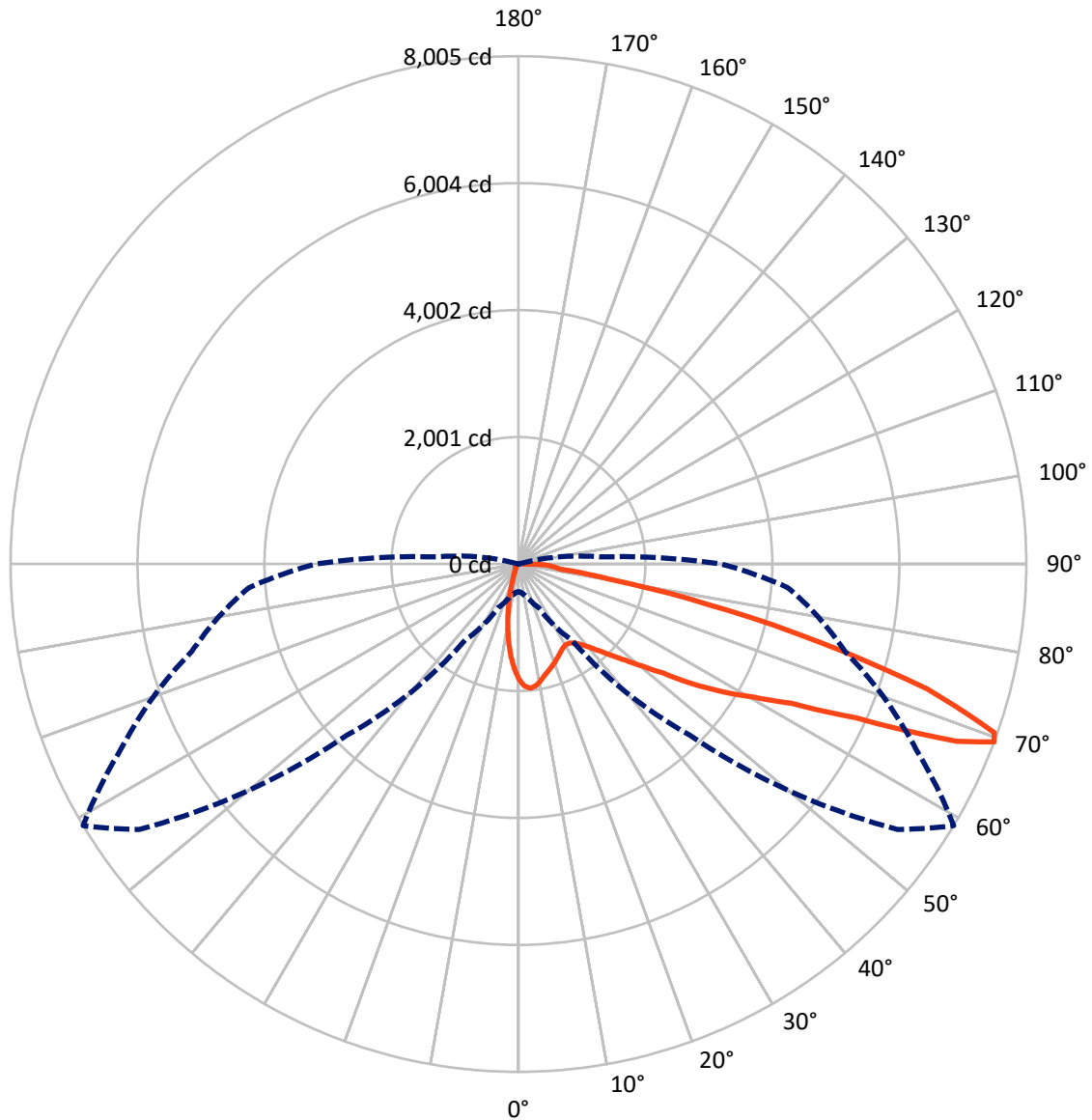
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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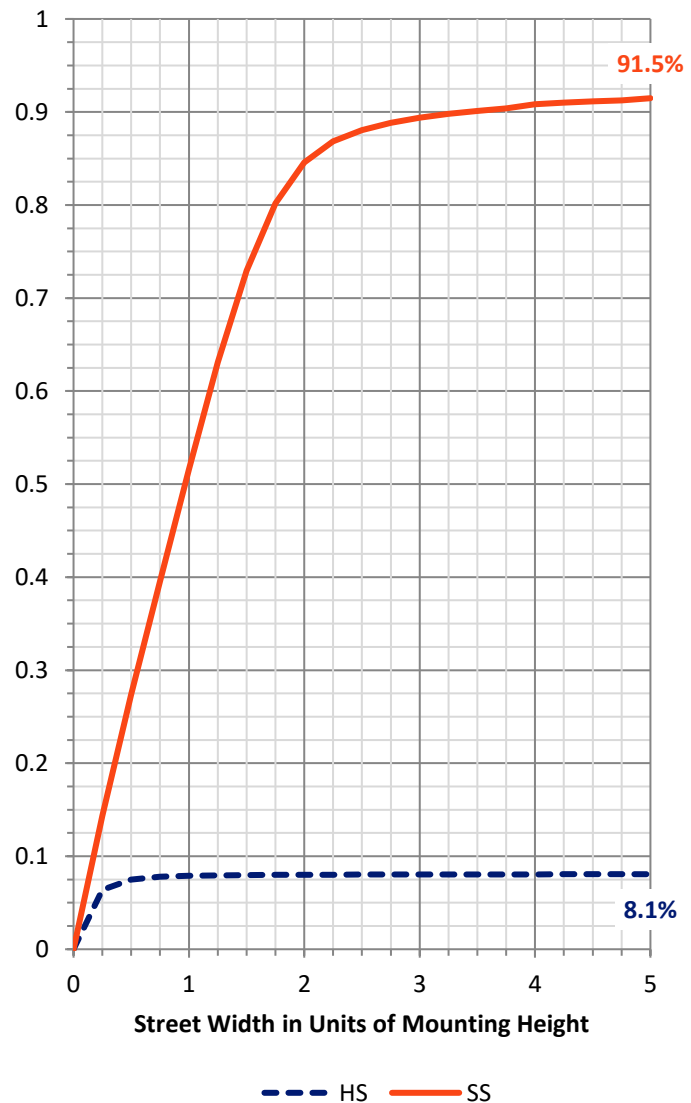
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	571.2	0.0	571.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6442.2	0.0	6442.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	7013.4	0.0	7013.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	2.1
10°-20°	306.2	4.4
20°-30°	412.0	5.9
30°-40°	598.2	8.5
40°-50°	996.0	14.2
50°-60°	1553.8	22.2
60°-70°	1922.7	27.4
70°-80°	974.4	13.9
80°-90°	102.0	1.5
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°	7013.4	100.0
0°-180°	7013.4	100.0



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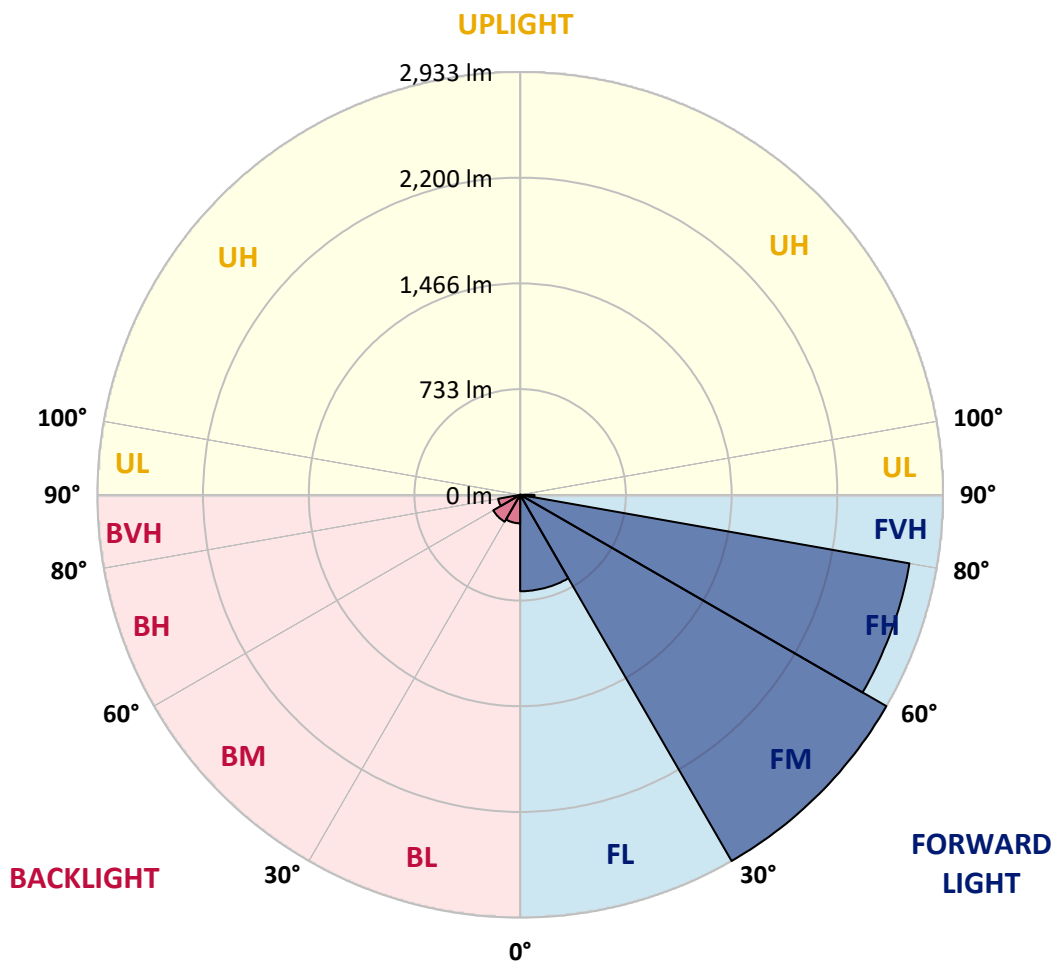
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.6	9.5			
FM	(30°-60°)	2932.8	41.8			
FH	(60°-80°)	2742.0	39.1			G2/5000
FVH	(80°-90°)	98.8	1.4			G1/100
BL	(0°-30°)	197.7	2.8	B1/500		
BM	(30°-60°)	215.2	3.1	B0/220		
BH	(60°-80°)	155.1	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
2.5°	2000.8	2000.0	1991.3	1987.3	1980.1	1965.1	1941.7	1929.4	1909.5	1875.1	1828.6
5°	1982.5	1992.1	1997.2	1997.6	2002.7	1997.2	1976.1	1965.9	1938.5	1882.9	1799.7
7.5°	1858.8	1862.4	1877.0	1889.7	1914.4	1937.7	1945.2	1940.8	1924.6	1865.1	1754.5
10°	1726.3	1729.9	1747.3	1764.0	1797.3	1833.4	1871.5	1879.4	1886.1	1839.8	1710.9
12.5°	1612.1	1615.6	1633.6	1655.3	1694.2	1738.6	1797.7	1810.8	1840.6	1815.5	1676.0
15°	1513.8	1515.4	1532.8	1559.8	1606.1	1663.3	1730.3	1751.3	1796.9	1798.6	1645.4
17.5°	1430.1	1434.1	1444.7	1470.5	1521.3	1591.9	1670.0	1700.1	1753.7	1784.2	1615.6
20°	1378.9	1382.9	1382.5	1396.7	1442.4	1517.8	1609.7	1645.8	1710.9	1769.6	1589.2
22.5°	1369.0	1369.0	1358.7	1356.7	1383.6	1446.8	1547.1	1591.1	1672.4	1763.3	1570.4
25°	1404.3	1402.7	1376.9	1355.9	1357.1	1394.8	1486.3	1538.7	1639.9	1767.6	1560.5
27.5°	1478.9	1476.8	1444.4	1404.3	1372.2	1371.8	1440.4	1496.7	1614.1	1788.2	1564.5
30°	1582.0	1581.2	1545.9	1495.6	1437.2	1383.6	1424.6	1475.7	1597.4	1825.5	1573.6
32.5°	1694.6	1693.4	1666.8	1613.7	1540.0	1437.2	1441.2	1484.0	1602.2	1875.1	1595.9
35°	1814.0	1812.0	1800.5	1754.1	1672.8	1536.0	1496.0	1529.2	1632.3	1949.2	1639.5
37.5°	1943.3	1945.2	1953.5	1909.1	1823.9	1674.4	1587.5	1610.1	1693.0	2050.0	1710.5
40°	2134.0	2133.7	2136.4	2078.1	1996.0	1843.8	1715.6	1722.8	1794.6	2183.6	1818.3
42.5°	2480.2	2456.0	2382.7	2263.7	2181.2	2037.2	1877.0	1869.5	1918.6	2349.0	1969.5
45°	2945.4	2893.9	2703.6	2475.4	2370.0	2255.4	2075.8	2051.5	2082.8	2547.7	2155.9
47.5°	3345.6	3292.1	3022.7	2696.0	2570.3	2462.3	2308.5	2264.9	2275.2	2770.2	2392.2
50°	3481.6	3455.4	3220.2	2887.9	2764.2	2723.0	2578.6	2525.5	2510.7	3027.5	2666.2
52.5°	3434.5	3432.4	3275.8	3012.5	2941.9	2992.6	2918.5	2857.0	2803.1	3298.8	2945.1
55°	3358.7	3368.6	3298.4	3121.5	3119.2	3238.9	3383.3	3332.1	3175.9	3593.4	3185.4
57.5°	3149.7	3192.1	3285.7	3327.8	3425.4	3547.8	3770.3	3800.5	3615.6	3819.1	3384.8
60°	2555.6	2648.8	2955.0	3357.5	3819.9	4125.3	4237.5	4263.2	3976.5	4006.7	3654.1
62.5°	1814.0	1909.1	2297.4	2978.3	3825.8	4884.0	4933.5	4832.4	4373.9	4284.7	4118.5
65°	962.9	1036.2	1353.6	2149.8	3317.0	5060.0	6150.6	5849.2	5075.1	4831.6	4718.6
67.5°	492.6	514.7	640.9	1052.1	2280.4	4494.5	7241.7	7453.8	6283.5	5374.1	4689.6
69°	435.9	449.0	532.7	760.7	1460.3	3806.8	7294.8	8004.7	6916.1	5328.9	4261.7
70°	422.0	433.4	509.6	688.4	1141.4	3192.5	7091.3	7956.3	7077.8	5156.8	3942.0
72.5°	358.1	368.1	453.7	608.3	927.6	1584.8	5760.3	6742.0	6351.3	4295.8	2853.4
75°	239.6	272.1	435.5	570.3	863.0	900.2	3797.7	4872.0	4525.8	2897.4	1486.3
77.5°	57.5	61.9	123.0	453.7	789.2	792.4	1953.2	3028.8	2470.3	1032.7	351.4
80°	30.9	29.8	34.5	90.0	734.9	743.6	879.2	1470.2	882.0	171.3	115.8
82.5°	21.8	20.7	22.2	37.6	231.2	677.4	636.1	665.4	365.6	65.9	52.0
85°	8.0	7.6	12.3	34.1	72.5	389.4	653.6	548.9	296.2	30.2	38.1
87.5°	2.8	2.4	4.8	18.6	22.2	165.8	403.3	414.8	116.6	18.2	17.8
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°	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5	1825.5
2.5°	1809.2	1784.6	1739.4	1693.0	1650.2	1598.7	1572.9	1547.5	1536.8	1532.8	1514.2
5°	1756.9	1715.2	1619.2	1522.9	1434.1	1339.7	1277.4	1227.4	1198.1	1183.8	1161.2
7.5°	1689.8	1621.7	1476.1	1327.4	1189.0	1052.5	951.4	873.7	820.1	794.3	771.0
10°	1624.9	1534.0	1327.0	1124.3	936.3	755.4	615.9	514.7	450.1	420.3	401.3
12.5°	1566.5	1448.7	1183.0	926.4	690.5	478.6	336.7	256.1	216.1	202.2	195.5
15°	1514.6	1370.2	1047.0	738.5	467.6	273.6	184.0	156.6	150.3	150.3	149.6
17.5°	1465.4	1293.2	915.7	562.0	293.5	167.4	140.0	136.5	136.5	138.0	138.0
20°	1418.2	1219.9	788.8	403.3	184.8	132.9	126.5	125.7	126.5	128.5	128.5
22.5°	1377.7	1153.3	670.2	276.8	137.2	119.8	116.6	115.4	115.8	117.0	117.7
25°	1347.6	1096.9	558.4	187.6	118.2	109.0	105.5	103.5	101.9	101.9	102.7
27.5°	1328.6	1049.3	450.1	136.5	106.3	99.1	93.6	90.4	86.8	84.9	85.6
30°	1314.7	1004.1	348.6	111.4	95.1	88.1	80.9	75.7	70.6	68.2	69.0
32.5°	1309.5	967.7	260.5	98.3	85.3	77.3	68.6	61.9	56.4	54.3	54.7
35°	1323.4	938.8	190.8	88.8	77.3	67.4	57.5	49.9	45.6	44.4	44.8
37.5°	1359.9	923.2	142.8	80.9	70.2	59.1	48.0	40.8	38.1	38.1	38.5
40°	1428.9	922.8	114.6	75.4	63.8	51.1	39.7	34.5	32.9	33.8	34.1
42.5°	1529.6	943.9	99.9	70.2	58.3	43.6	32.9	29.4	28.9	29.8	30.2
45°	1667.2	982.3	92.0	65.9	52.4	36.5	27.7	25.4	25.4	26.6	27.0
47.5°	1835.8	1038.7	85.3	61.5	46.4	30.6	23.8	22.2	22.6	23.8	24.1
50°	2038.8	1109.6	78.6	56.7	42.0	25.4	20.7	19.4	19.8	21.4	21.8
52.5°	2270.0	1205.2	72.9	52.4	36.5	21.0	17.5	16.7	17.5	19.0	19.4
55°	2468.4	1290.9	66.2	48.8	29.4	17.5	14.3	14.3	15.0	17.1	17.5
57.5°	2659.1	1380.5	60.3	42.0	23.0	13.9	11.9	12.3	13.5	15.4	15.9
60°	2939.0	1532.4	53.2	35.3	17.5	11.2	9.9	10.3	11.9	13.9	14.3
62.5°	3414.6	1763.6	46.0	29.4	13.5	8.7	8.0	8.7	10.7	13.1	13.5
65°	3843.7	1857.6	37.6	24.6	10.3	6.8	6.8	8.0	10.3	12.7	13.1
67.5°	3604.6	1563.7	29.4	19.4	8.0	5.1	5.5	7.6	9.9	12.7	13.1
69°	3187.7	1278.6	25.0	15.4	6.8	4.8	5.1	7.6	9.9	12.3	12.7
70°	2862.9	1079.5	22.2	13.1	5.9	4.8	5.1	7.2	9.9	12.3	12.7
72.5°	1917.5	583.0	17.8	9.5	5.5	4.4	4.4	7.2	9.5	11.9	12.3
75°	824.1	161.0	14.3	6.8	4.8	4.0	4.0	6.8	9.1	11.5	12.3
77.5°	150.7	40.8	11.5	5.9	4.8	4.0	3.6	6.3	8.7	11.2	11.5
80°	59.8	20.3	9.1	5.1	4.4	3.6	3.2	5.9	8.3	10.7	11.2
82.5°	36.1	11.5	7.6	4.8	4.4	3.2	2.8	5.1	8.0	10.3	10.7
85°	29.4	8.0	5.9	4.8	4.0	3.2	2.4	4.8	7.2	9.9	10.3
87.5°	14.3	5.5	5.5	4.4	4.0	3.2	2.4	4.4	6.8	9.5	9.9
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)