

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: P199964

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199964
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: GPC-AF-02-LED-E1-SL3-7030-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 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: 6763.2 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' 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

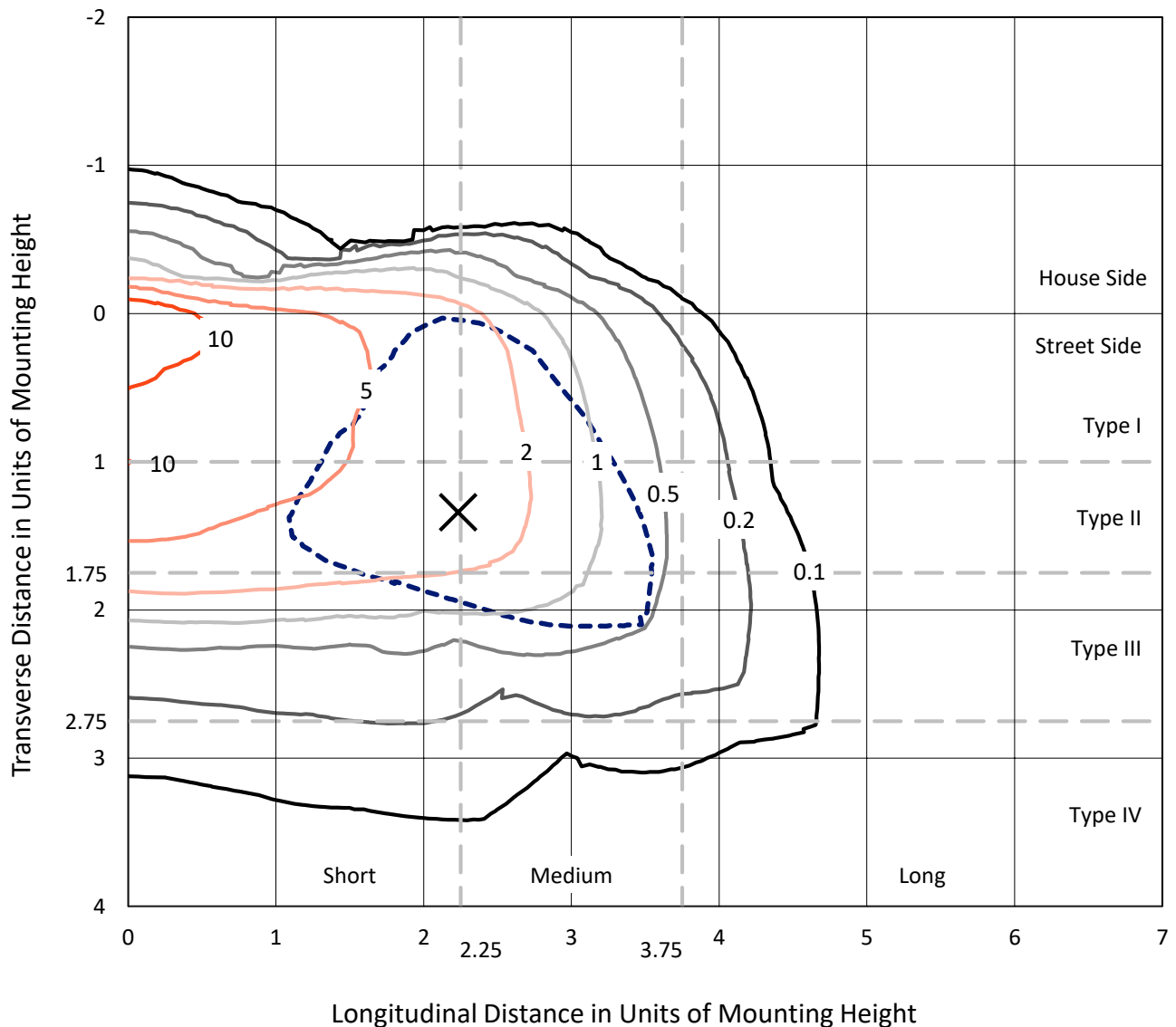


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Iso-Footcandle Lines of Horizontal Illumination

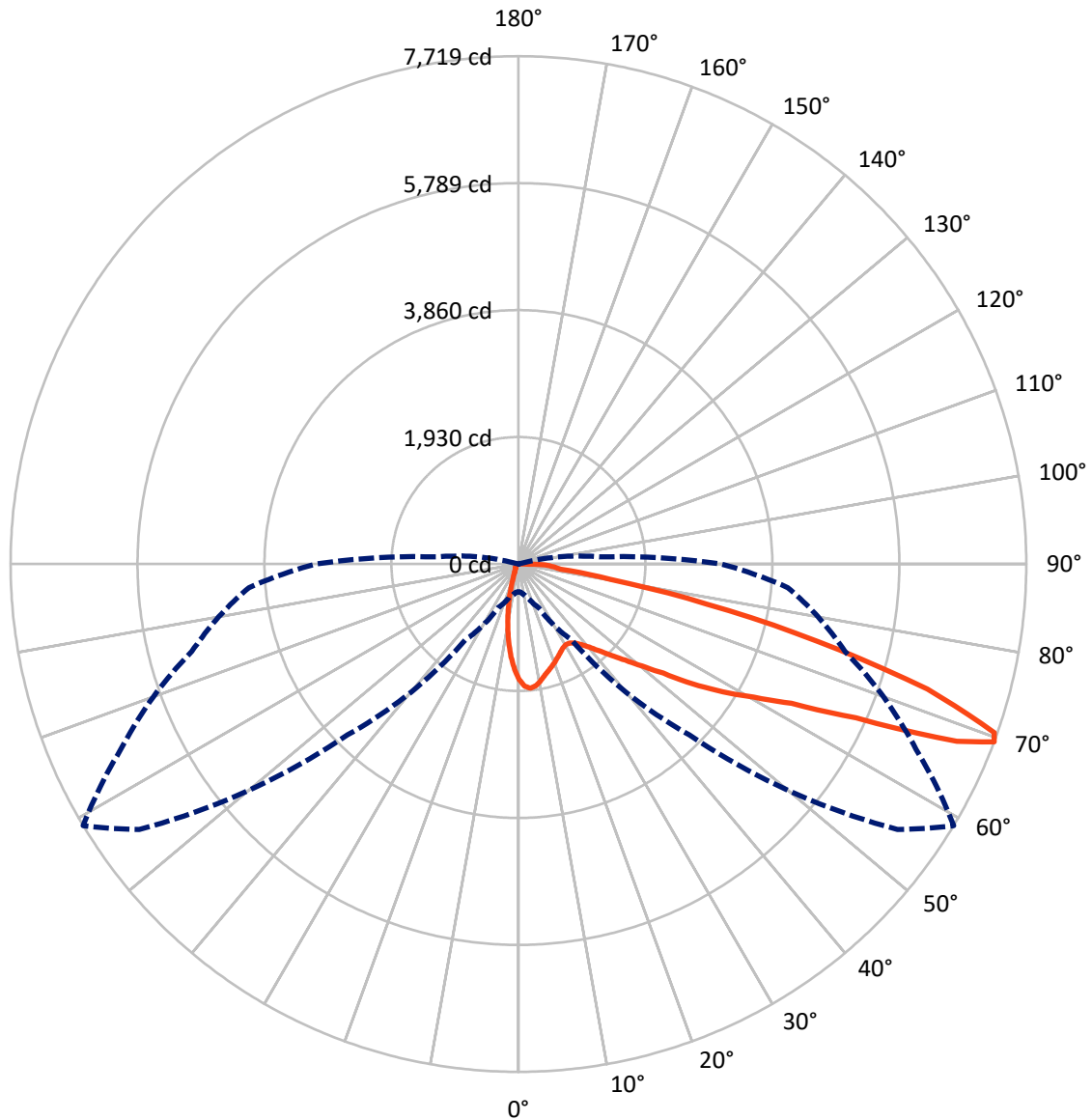
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 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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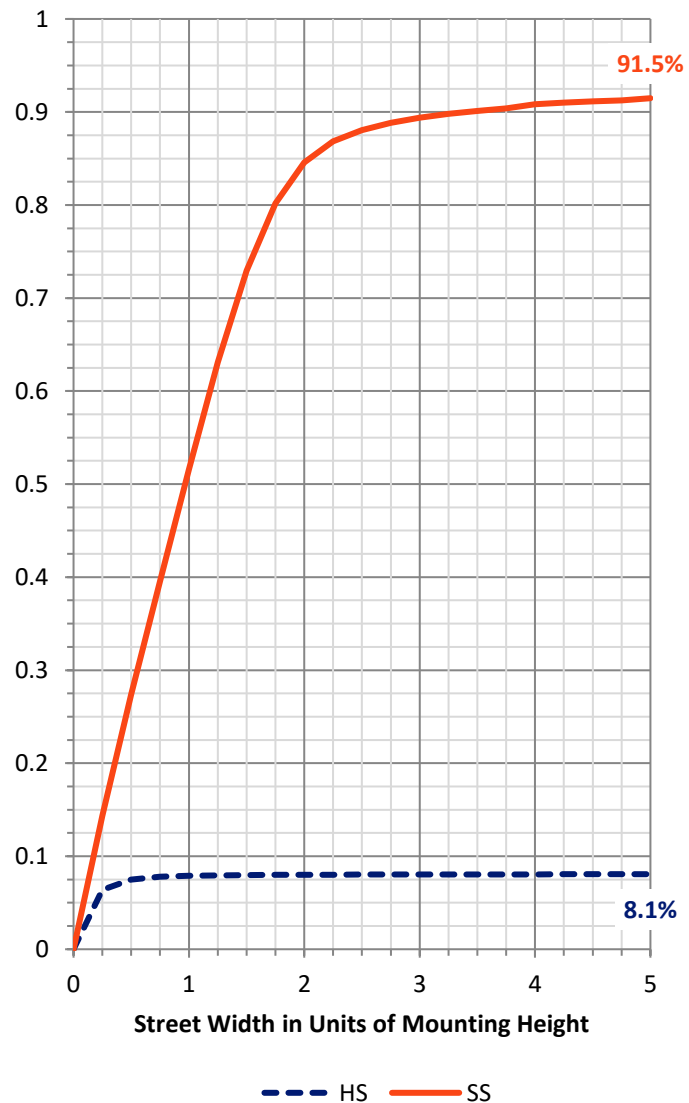
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.8	0.0	550.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	6212.4	0.0	6212.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	6763.2	0.0	6763.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	2.1
10°-20°	295.2	4.4
20°-30°	397.3	5.9
30°-40°	576.9	8.5
40°-50°	960.5	14.2
50°-60°	1498.3	22.2
60°-70°	1854.1	27.4
70°-80°	939.7	13.9
80°-90°	98.3	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°	6763.2	100.0
0°-180°	6763.2	100.0



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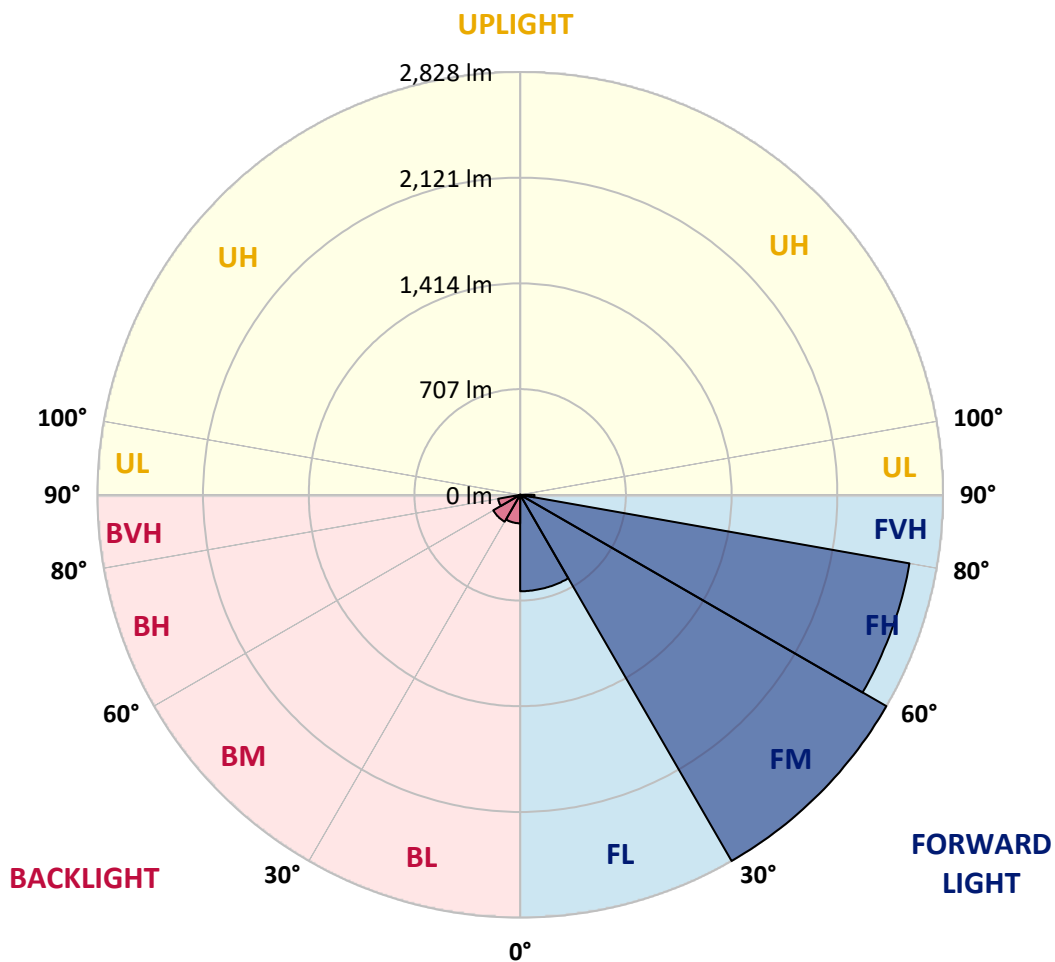
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.8	9.5			
FM	(30°-60°)	2828.1	41.8			
FH	(60°-80°)	2644.1	39.1			G2/5000
FVH	(80°-90°)	95.3	1.4			G1/100
BL	(0°-30°)	190.6	2.8	B1/500		
BM	(30°-60°)	207.5	3.1	B0/220		
BH	(60°-80°)	149.6	2.2	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1929.4	1928.7	1920.2	1916.4	1909.6	1895.0	1872.3	1860.5	1841.4	1808.1	1763.5
5°	1911.8	1921.0	1925.9	1926.4	1931.2	1925.9	1905.7	1895.7	1869.3	1815.8	1735.5
7.5°	1792.5	1795.9	1810.1	1822.3	1846.1	1868.6	1875.9	1871.6	1856.0	1798.6	1691.9
10°	1664.8	1668.2	1685.0	1701.0	1733.2	1768.1	1804.8	1812.4	1818.8	1774.2	1649.9
12.5°	1554.6	1558.0	1575.3	1596.3	1633.8	1676.6	1733.6	1746.2	1774.9	1750.8	1616.2
15°	1459.8	1461.4	1478.2	1504.2	1548.9	1603.9	1668.6	1688.8	1732.9	1734.4	1586.8
17.5°	1379.1	1382.9	1393.2	1418.0	1467.1	1535.1	1610.5	1639.6	1691.2	1720.7	1558.0
20°	1329.6	1333.5	1333.2	1346.9	1390.9	1463.6	1552.3	1587.1	1649.9	1706.4	1532.5
22.5°	1320.2	1320.2	1310.2	1308.3	1334.3	1395.1	1491.9	1534.3	1612.7	1700.3	1514.5
25°	1354.2	1352.6	1327.8	1307.5	1308.7	1345.0	1433.4	1483.8	1581.4	1704.6	1504.9
27.5°	1426.1	1424.2	1392.8	1354.2	1323.2	1322.8	1389.0	1443.4	1556.5	1724.4	1508.8
30°	1525.6	1524.8	1490.8	1442.1	1386.0	1334.3	1373.7	1423.0	1540.4	1760.3	1517.5
32.5°	1634.2	1633.0	1607.4	1556.2	1485.1	1386.0	1389.8	1431.1	1545.0	1808.1	1538.9
35°	1749.2	1747.4	1736.2	1691.6	1613.1	1481.2	1442.5	1474.7	1574.1	1879.7	1581.0
37.5°	1873.9	1875.9	1883.8	1841.0	1758.8	1614.7	1530.9	1552.7	1632.7	1976.8	1649.5
40°	2057.9	2057.5	2060.2	2004.0	1924.8	1777.9	1654.4	1661.3	1730.5	2105.7	1753.5
42.5°	2391.8	2368.4	2297.7	2183.0	2103.3	1964.6	1810.1	1802.8	1850.2	2265.2	1899.2
45°	2840.3	2790.6	2607.0	2387.2	2285.4	2175.0	2001.6	1978.3	2008.5	2456.8	2078.8
47.5°	3226.2	3174.6	2914.9	2599.9	2478.5	2374.5	2226.1	2184.1	2194.0	2671.3	2306.9
50°	3357.4	3332.2	3105.3	2784.9	2665.6	2625.8	2486.6	2435.4	2421.1	2919.5	2571.1
52.5°	3311.8	3310.0	3158.9	2904.9	2836.9	2885.9	2814.3	2755.1	2703.1	3181.1	2839.9
55°	3238.9	3248.4	3180.7	3010.2	3007.9	3123.4	3262.6	3213.2	3062.5	3465.2	3071.8
57.5°	3037.3	3078.3	3168.5	3209.1	3303.1	3421.2	3635.8	3664.9	3486.7	3682.9	3264.1
60°	2464.5	2554.3	2849.5	3237.7	3683.6	3978.1	4086.3	4111.2	3834.7	3863.7	3523.7
62.5°	1749.2	1841.0	2215.4	2872.1	3689.3	4709.7	4757.4	4660.0	4217.9	4131.8	3971.6
65°	928.6	999.2	1305.2	2073.2	3198.7	4879.5	5931.2	5640.5	4894.0	4659.3	4550.2
67.5°	474.9	496.4	618.0	1014.6	2199.1	4334.1	6983.3	7187.8	6059.3	5182.3	4522.3
69°	420.3	432.8	513.6	733.5	1408.2	3671.0	7034.5	7719.0	6669.3	5138.8	4109.7
70°	406.9	418.0	491.4	663.9	1100.7	3078.6	6838.3	7672.4	6825.3	4972.8	3801.4
72.5°	345.4	354.9	437.5	586.6	894.5	1528.2	5554.8	6501.4	6124.7	4142.6	2751.5
75°	231.0	262.3	419.9	549.9	832.2	868.2	3662.3	4698.2	4364.4	2794.1	1433.4
77.5°	55.5	59.6	118.5	437.5	761.1	764.2	1883.5	2920.7	2382.2	995.9	338.8
80°	29.8	28.7	33.4	86.9	708.6	717.1	847.9	1417.6	850.6	165.2	111.7
82.5°	21.1	19.8	21.5	36.4	223.0	653.2	613.4	641.7	352.6	63.5	50.1
85°	7.6	7.3	11.9	32.9	70.0	375.6	630.2	529.3	285.7	29.1	36.7
87.5°	2.7	2.3	4.6	18.0	21.5	159.8	389.0	400.0	112.4	17.6	17.3
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°	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3	1760.3
2.5°	1744.7	1721.0	1677.3	1632.7	1591.4	1541.6	1516.7	1492.3	1482.0	1478.2	1460.1
5°	1694.2	1654.0	1561.6	1468.6	1382.9	1291.9	1231.8	1183.6	1155.3	1141.5	1119.8
7.5°	1629.6	1563.8	1423.4	1280.0	1146.5	1015.0	917.4	842.5	790.9	766.0	743.5
10°	1566.9	1479.3	1279.7	1084.2	902.9	728.5	594.0	496.4	434.1	405.4	387.0
12.5°	1510.6	1397.0	1140.7	893.4	665.8	461.6	324.7	247.0	208.4	195.0	188.6
15°	1460.6	1321.3	1009.7	712.1	450.9	263.9	177.4	151.1	145.0	145.0	144.2
17.5°	1413.0	1247.0	883.1	541.9	283.0	161.3	135.1	131.5	131.5	133.1	133.1
20°	1367.6	1176.4	760.7	389.0	178.2	128.2	122.1	121.3	122.1	123.9	123.9
22.5°	1328.6	1112.1	646.3	266.9	132.3	115.5	112.4	111.3	111.7	112.9	113.6
25°	1299.5	1057.8	538.4	181.0	113.9	105.2	101.7	99.9	98.4	98.4	99.1
27.5°	1281.2	1012.0	434.1	131.5	102.4	95.6	90.2	87.2	83.8	81.8	82.6
30°	1267.7	968.4	336.2	107.5	91.8	84.9	78.0	73.1	68.1	65.8	66.5
32.5°	1262.8	933.2	251.3	94.8	82.3	74.7	66.2	59.6	54.3	52.5	52.8
35°	1276.1	905.2	184.0	85.7	74.7	65.0	55.5	48.2	44.0	42.8	43.2
37.5°	1311.3	890.4	137.6	78.0	67.7	57.1	46.3	39.5	36.7	36.7	37.1
40°	1377.9	889.9	110.6	72.6	61.6	49.3	38.2	33.4	31.8	32.6	32.9
42.5°	1475.1	910.2	96.3	67.7	56.3	42.1	31.8	28.3	28.0	28.7	29.1
45°	1607.7	947.3	88.7	63.5	50.5	35.2	26.8	24.5	24.5	25.6	26.0
47.5°	1770.3	1001.6	82.3	59.3	44.8	29.5	23.0	21.5	21.9	23.0	23.4
50°	1966.1	1070.0	75.7	54.7	40.5	24.5	19.8	18.8	19.1	20.6	21.1
52.5°	2189.1	1162.2	70.4	50.5	35.2	20.3	16.8	16.1	16.8	18.3	18.8
55°	2380.3	1244.8	63.9	47.1	28.3	16.8	13.7	13.7	14.5	16.5	16.8
57.5°	2564.2	1331.3	58.1	40.5	22.2	13.4	11.5	11.9	13.0	15.0	15.3
60°	2834.1	1477.7	51.3	34.1	16.8	10.7	9.7	10.0	11.5	13.4	13.7
62.5°	3292.7	1700.7	44.4	28.3	13.0	8.4	7.6	8.4	10.4	12.7	13.0
65°	3706.6	1791.3	36.4	23.7	10.0	6.5	6.5	7.6	10.0	12.2	12.7
67.5°	3476.0	1508.0	28.3	18.8	7.6	5.0	5.4	7.3	9.7	12.2	12.7
69°	3074.0	1233.0	24.1	15.0	6.5	4.6	5.0	7.3	9.7	11.9	12.2
70°	2760.8	1041.0	21.5	12.7	5.8	4.6	5.0	6.9	9.7	11.9	12.2
72.5°	1849.1	562.1	17.3	9.2	5.4	4.3	4.3	6.9	9.2	11.5	11.9
75°	794.8	155.2	13.7	6.5	4.6	3.9	3.9	6.5	8.8	11.2	11.9
77.5°	145.4	39.5	11.2	5.8	4.6	3.9	3.5	6.1	8.4	10.7	11.2
80°	57.8	19.5	8.8	5.0	4.3	3.5	3.1	5.8	8.0	10.4	10.7
82.5°	34.9	11.2	7.3	4.6	4.3	3.1	2.7	5.0	7.6	10.0	10.4
85°	28.3	7.6	5.8	4.6	3.9	3.1	2.3	4.6	6.9	9.7	10.0
87.5°	13.7	5.4	5.4	4.3	3.9	3.1	2.3	4.3	6.5	9.2	9.7
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)