

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: P323007

Luminaire Tested: **GLEON-SA3C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11505 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

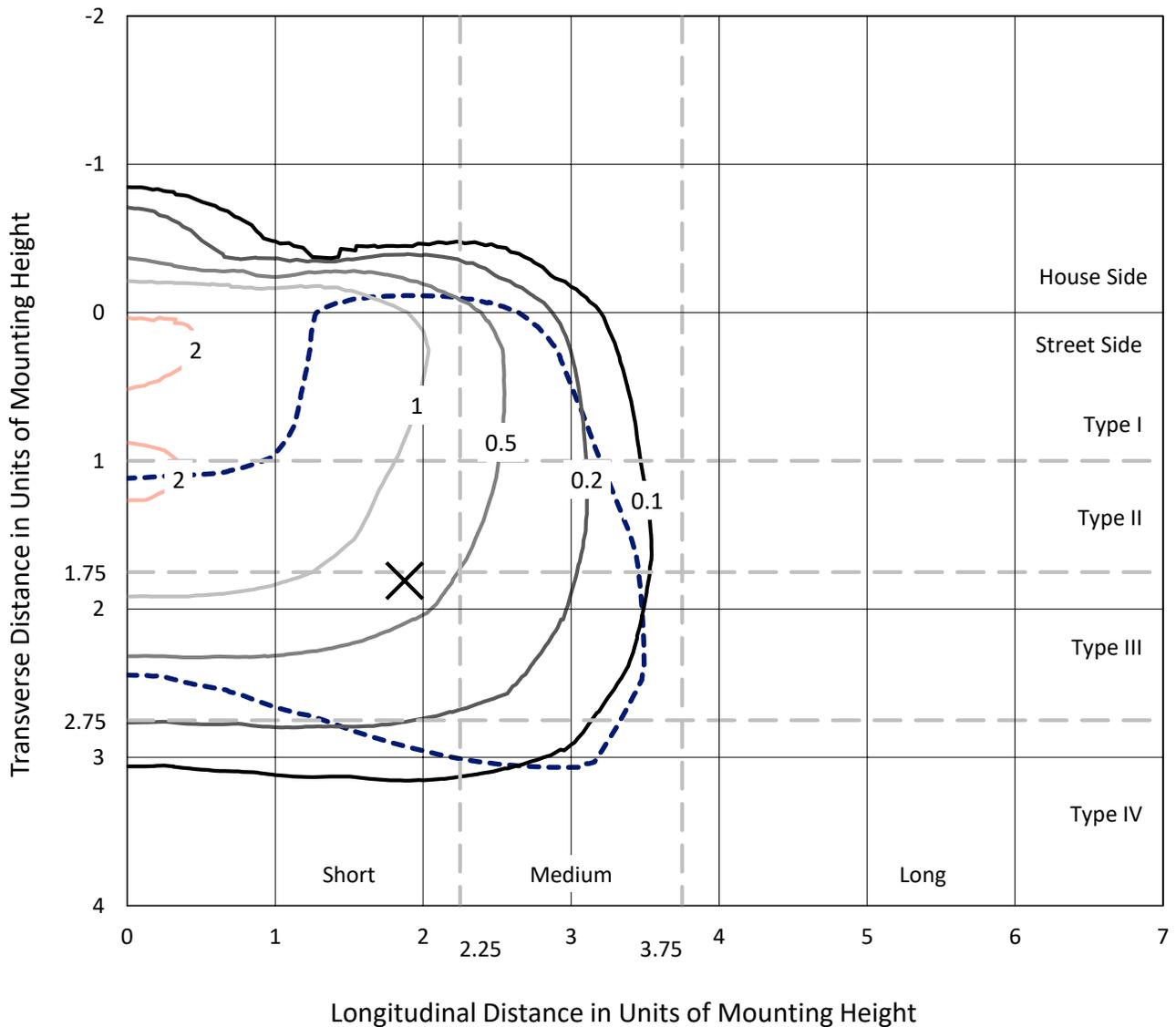
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

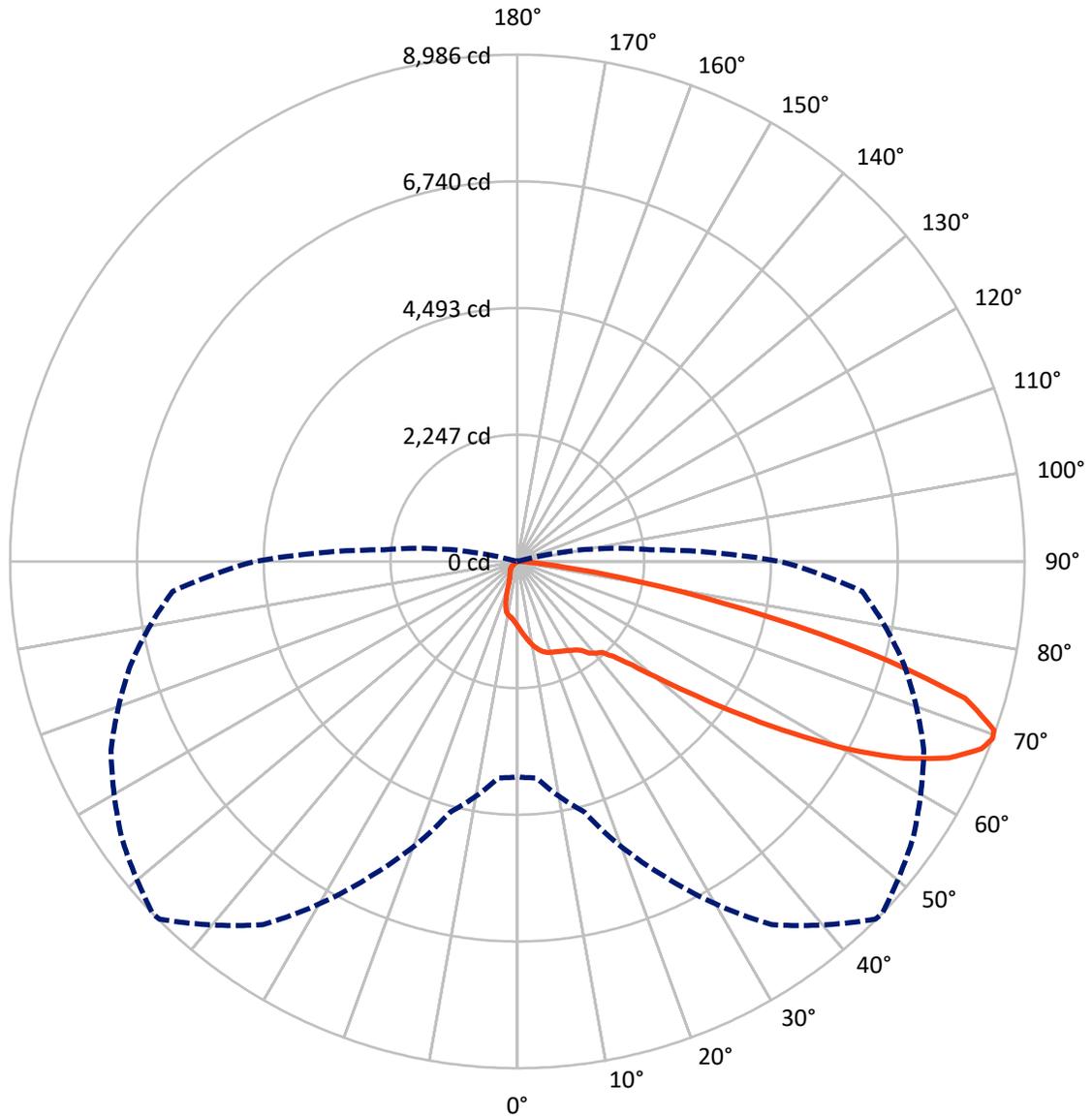
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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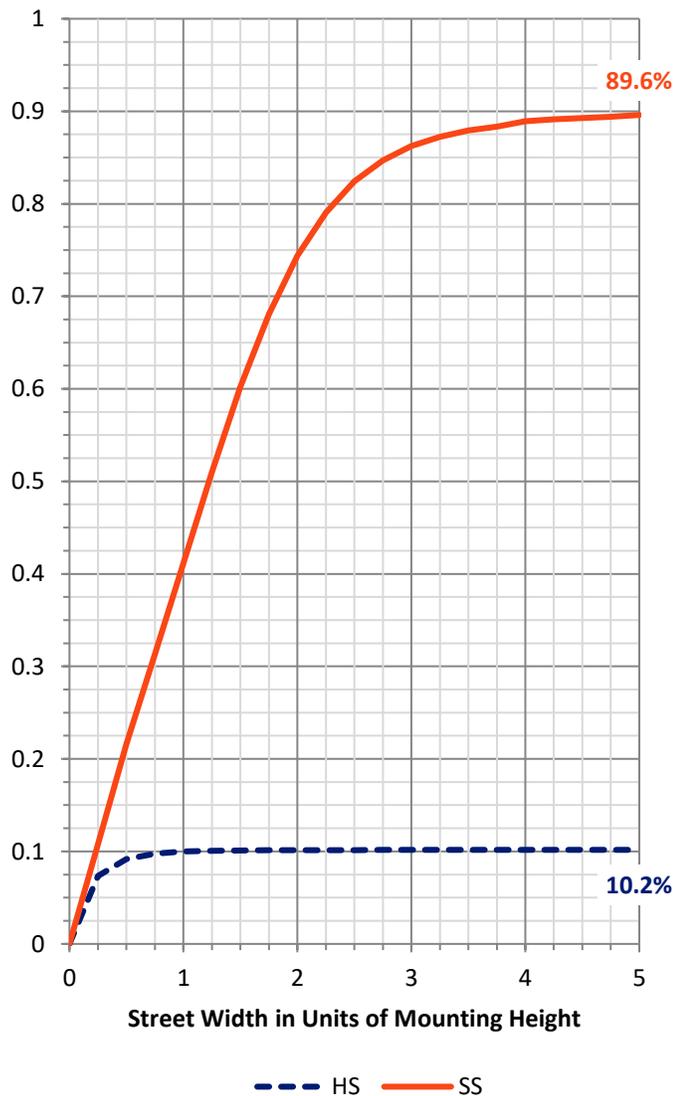
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.7	0.0	1180.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10324.3	0.0	10324.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	11505.0	0.0	11505.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	1.0
10°-20°	348.1	3.0
20°-30°	547.4	4.8
30°-40°	785.0	6.8
40°-50°	1356.8	11.8
50°-60°	2680.5	23.3
60°-70°	3746.2	32.6
70°-80°	1809.8	15.7
80°-90°	116.3	1.0
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°	11505.0	100.0
0°-180°	11505.0	100.0

Coefficient of Utilization



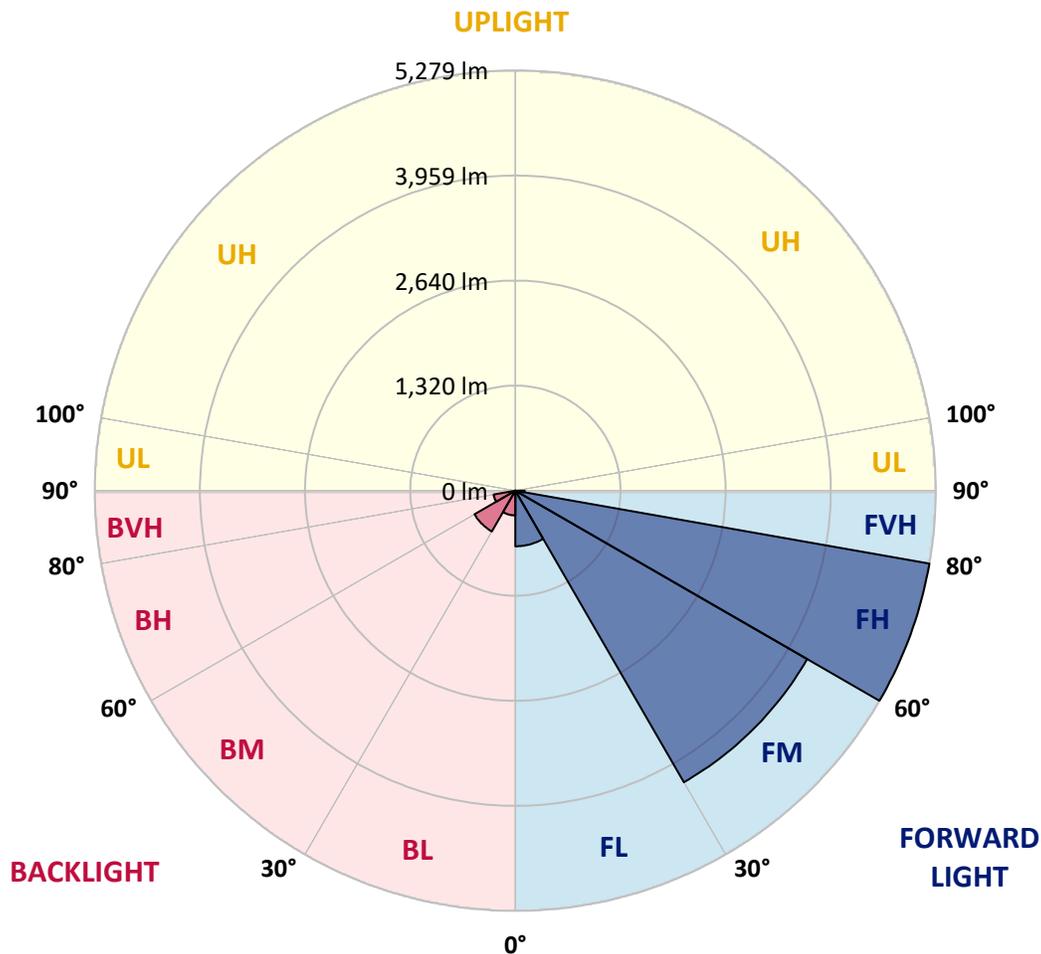
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.1	6.1			
FM (30°-60°)	4230.6	36.8			
FH (60°-80°)	5279.2	45.9			G3/7500
FVH (80°-90°)	115.3	1.0			G2/225
BL (0°-30°)	311.2	2.7	B1/500		
BM (30°-60°)	591.7	5.1	B1/1000		
BH (60°-80°)	276.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8
2.5°	1280.6	1279.0	1271.4	1268.2	1249.9	1239.1	1234.8	1221.3	1201.8	1182.4	1160.8
5°	1426.2	1425.7	1411.7	1398.2	1363.7	1331.3	1325.4	1294.1	1250.4	1209.4	1168.4
7.5°	1575.1	1568.1	1554.1	1528.2	1478.0	1426.2	1421.4	1377.2	1315.1	1255.8	1197.0
10°	1701.4	1697.0	1678.7	1639.3	1580.5	1521.7	1515.8	1461.3	1391.2	1318.4	1243.4
12.5°	1799.5	1796.3	1772.0	1722.9	1660.4	1599.4	1591.3	1542.8	1467.8	1386.3	1297.9
15°	1859.4	1857.8	1828.1	1775.8	1714.3	1661.4	1654.4	1611.8	1542.2	1457.0	1357.2
17.5°	1873.4	1874.0	1843.2	1790.4	1739.7	1701.9	1696.5	1664.1	1605.9	1521.2	1416.5
20°	1842.1	1848.6	1821.1	1775.3	1744.0	1724.0	1719.7	1700.3	1651.2	1571.4	1464.0
22.5°	1797.9	1801.2	1782.3	1751.5	1738.6	1742.4	1740.2	1729.4	1687.9	1614.5	1510.9
25°	1770.9	1770.9	1759.6	1733.7	1742.4	1765.5	1766.1	1763.9	1731.0	1667.4	1568.1
27.5°	1769.9	1766.6	1753.7	1734.3	1758.0	1793.6	1795.8	1810.3	1789.8	1731.6	1639.3
30°	1813.0	1809.2	1781.7	1756.4	1786.6	1824.9	1830.3	1862.1	1851.9	1801.2	1718.6
32.5°	1913.9	1900.4	1839.5	1797.9	1820.6	1866.4	1873.4	1924.1	1940.3	1886.9	1795.2
35°	2052.0	2009.4	1921.4	1876.7	1878.8	1926.8	1933.3	2007.8	2055.8	1965.7	1854.6
37.5°	2242.4	2221.4	2078.4	1958.7	1968.4	2041.2	2060.1	2141.0	2127.5	2008.8	1922.0
40°	2659.9	2627.0	2474.9	2188.5	2054.1	2134.0	2139.9	2183.1	2184.1	2106.5	2062.2
42.5°	3228.5	3215.0	3054.8	2605.4	2223.0	2196.0	2206.8	2279.6	2361.1	2312.5	2310.4
45°	3858.0	3851.0	3681.1	3158.9	2564.4	2399.4	2412.9	2510.5	2666.4	2677.2	2745.7
47.5°	4364.5	4361.3	4263.6	3776.5	3087.1	2744.1	2748.4	2852.0	3126.0	3261.4	3370.9
50°	4826.3	4841.9	4764.8	4444.9	3799.2	3284.0	3273.8	3342.8	3783.0	4004.7	4140.7
52.5°	5468.2	5490.3	5274.0	5068.5	4546.3	3954.0	3945.9	4018.2	4572.7	4738.9	4763.2
55°	6035.1	5997.4	5826.4	5767.0	5457.4	4781.5	4779.3	4843.0	5336.6	5407.2	5452.0
57.5°	6285.4	6270.9	6353.4	6489.3	6411.6	5759.5	5754.6	5706.1	6020.0	6027.6	6165.1
60°	6443.5	6461.3	6714.3	7133.4	7327.1	6811.9	6780.6	6484.5	6672.7	6656.0	6803.3
62.5°	6324.8	6359.9	6815.1	7513.7	8012.1	7730.5	7686.3	7197.6	7230.5	7172.8	7309.8
65°	5694.7	5749.2	6495.3	7442.0	8352.0	8448.5	8403.8	7827.1	7673.4	7578.4	7502.4
67.5°	4624.0	4656.3	5435.3	6817.8	8198.8	8876.8	8867.7	8378.9	8007.8	7509.9	6919.8
69°	3821.3	3853.1	4602.9	6160.8	7861.6	8968.5	8986.3	8555.9	7944.2	7093.5	6131.1
70°	3236.6	3270.6	3969.1	5597.6	7470.5	8925.9	8957.7	8539.1	7761.8	6611.2	5439.1
72.5°	1697.6	1726.7	2443.6	3856.4	6090.1	8196.1	8292.6	7817.4	6579.4	4801.5	3216.1
75°	533.5	550.2	954.2	2015.8	4169.8	6372.8	6394.9	6132.2	4672.0	2641.0	1339.4
77.5°	203.4	198.5	317.7	742.8	2108.1	4012.8	4148.2	3832.1	2451.7	933.8	309.1
80°	109.5	110.0	165.1	307.5	901.9	2062.2	2176.6	1857.3	871.2	291.3	71.2
82.5°	47.5	49.6	92.8	162.9	414.3	760.6	817.8	680.8	332.8	195.8	26.4
85°	10.2	11.3	44.8	88.5	168.8	213.6	223.9	220.6	212.0	152.1	10.2
87.5°	0.0	0.0	20.0	31.8	42.6	48.5	42.6	55.6	117.1	102.5	5.4
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°	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8	1152.8
2.5°	1153.8	1144.1	1127.4	1109.1	1096.1	1082.6	1071.8	1067.0	1061.6	1057.8	1062.7
5°	1151.7	1132.8	1100.4	1069.1	1046.5	1028.2	1013.0	1007.1	1001.2	996.9	996.3
7.5°	1170.6	1144.1	1094.5	1048.6	1013.6	988.8	968.3	959.6	952.6	949.4	946.7
10°	1206.7	1172.7	1106.4	1046.5	1001.2	959.1	914.9	880.9	858.8	848.5	844.7
12.5°	1253.6	1211.0	1129.0	1057.8	992.0	911.1	817.2	736.3	684.0	666.7	656.5
15°	1308.7	1255.8	1158.7	1072.4	958.6	810.8	651.6	545.9	497.4	487.6	476.9
17.5°	1361.5	1303.3	1194.3	1075.1	885.2	647.9	477.4	405.6	386.8	393.2	394.9
20°	1407.9	1350.2	1229.4	1051.3	752.0	486.0	369.5	351.7	358.7	371.1	373.3
22.5°	1454.8	1395.5	1261.7	988.8	581.5	369.0	332.8	337.1	344.2	356.6	358.7
25°	1512.0	1450.5	1291.9	873.9	436.4	313.9	316.1	322.6	329.6	340.9	342.0
27.5°	1577.8	1520.1	1311.9	724.5	323.7	288.6	295.6	305.3	312.3	323.1	325.3
30°	1665.2	1611.8	1318.4	569.6	271.3	265.9	269.2	281.0	291.3	301.0	302.6
32.5°	1747.2	1702.4	1296.8	429.9	251.4	244.9	244.9	251.9	263.8	273.0	275.1
35°	1822.7	1793.6	1227.7	314.5	236.3	225.5	220.1	220.1	227.6	235.2	237.3
37.5°	1922.5	1921.4	1116.1	250.8	221.7	209.3	198.0	189.3	186.6	188.3	189.3
40°	2093.5	2095.1	970.4	224.9	209.3	192.6	175.3	159.7	145.1	140.3	139.7
42.5°	2360.5	2336.3	817.8	212.5	198.5	175.3	149.4	128.4	105.7	98.7	98.2
45°	2784.5	2640.5	655.9	201.2	187.2	155.9	123.5	94.9	76.6	71.2	71.2
47.5°	3402.2	3040.2	508.1	188.8	172.1	133.8	93.3	68.5	56.1	53.4	53.9
50°	4040.9	3431.8	389.5	173.2	153.7	110.6	69.0	49.6	42.6	42.6	43.2
52.5°	4607.3	3718.8	303.7	156.4	131.1	86.8	52.3	38.8	35.6	35.1	35.6
55°	5137.5	3903.8	232.5	137.0	104.1	64.7	39.9	31.8	29.7	28.6	28.1
57.5°	5648.9	3995.5	174.2	110.6	75.5	46.9	31.8	27.0	24.8	23.2	22.7
60°	5989.3	3921.1	119.8	81.5	52.3	34.0	26.4	23.2	20.5	18.9	18.3
62.5°	6181.3	3717.7	77.1	58.8	37.2	25.4	21.0	19.4	15.6	14.0	14.0
65°	6103.6	3382.2	53.9	42.1	27.0	18.9	15.6	15.6	11.3	9.2	8.6
67.5°	5408.8	2857.4	41.0	31.3	19.4	14.0	11.9	13.5	7.0	4.3	4.3
69°	4653.6	2368.1	35.1	25.9	16.2	11.3	10.2	12.4	4.9	3.2	2.7
70°	4044.6	2042.8	31.8	22.7	13.5	9.7	9.2	11.9	4.9	2.7	2.2
72.5°	2419.9	1139.3	24.3	16.2	8.6	7.6	7.6	13.5	4.9	2.7	2.2
75°	978.0	401.3	17.8	11.3	6.5	6.5	9.2	17.3	4.3	2.2	1.6
77.5°	221.7	87.9	10.2	7.0	4.3	6.5	10.8	13.5	2.7	1.1	0.0
80°	53.9	21.6	6.5	4.3	2.7	4.9	8.1	7.6	0.5	0.0	0.0
82.5°	17.8	7.6	2.7	2.2	0.5	1.6	3.8	2.2	0.0	0.0	0.0
85°	7.6	4.3	1.1	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)