

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: P526542

Luminaire Tested: **GALN-SA1C-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5491 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

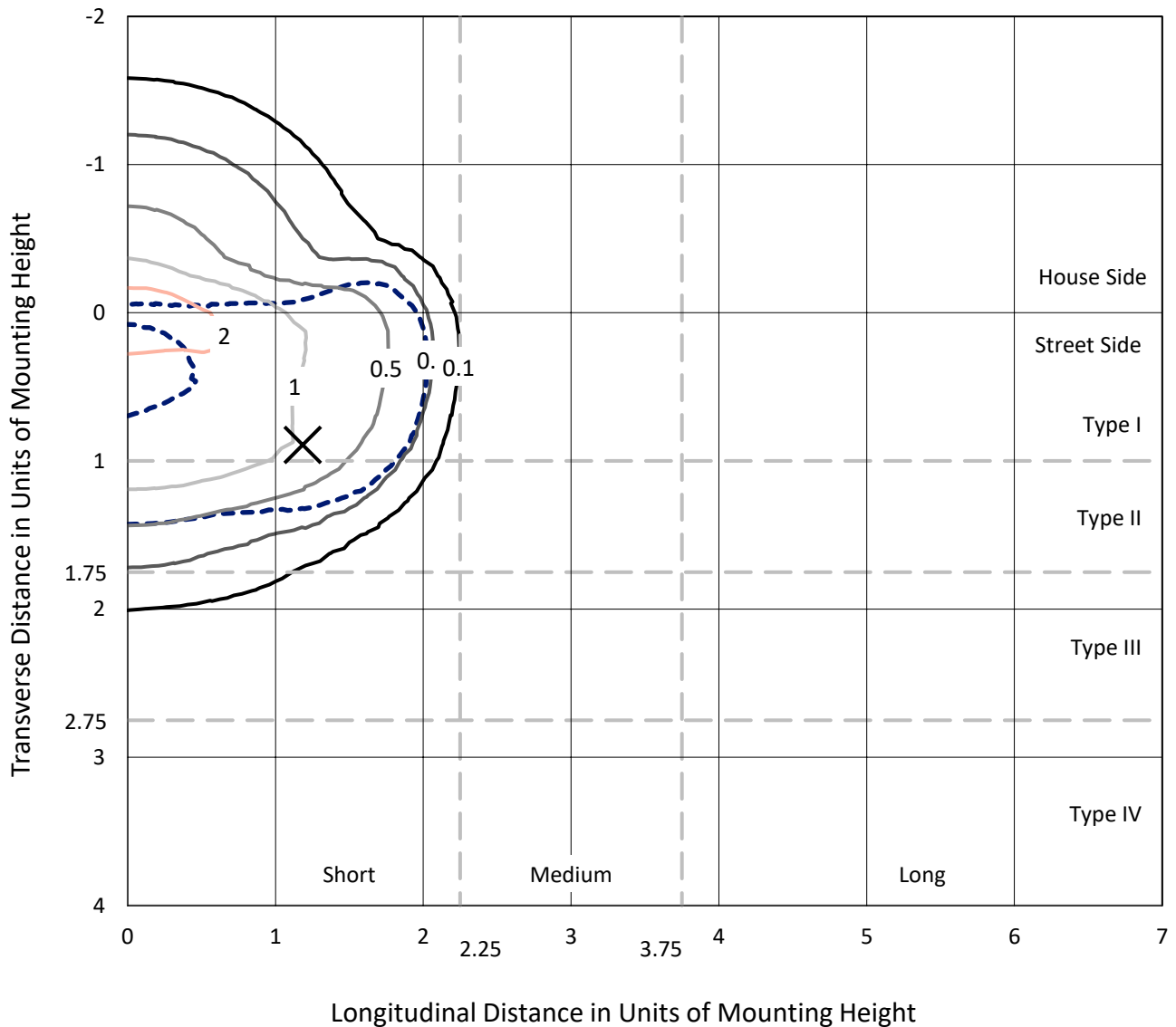
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

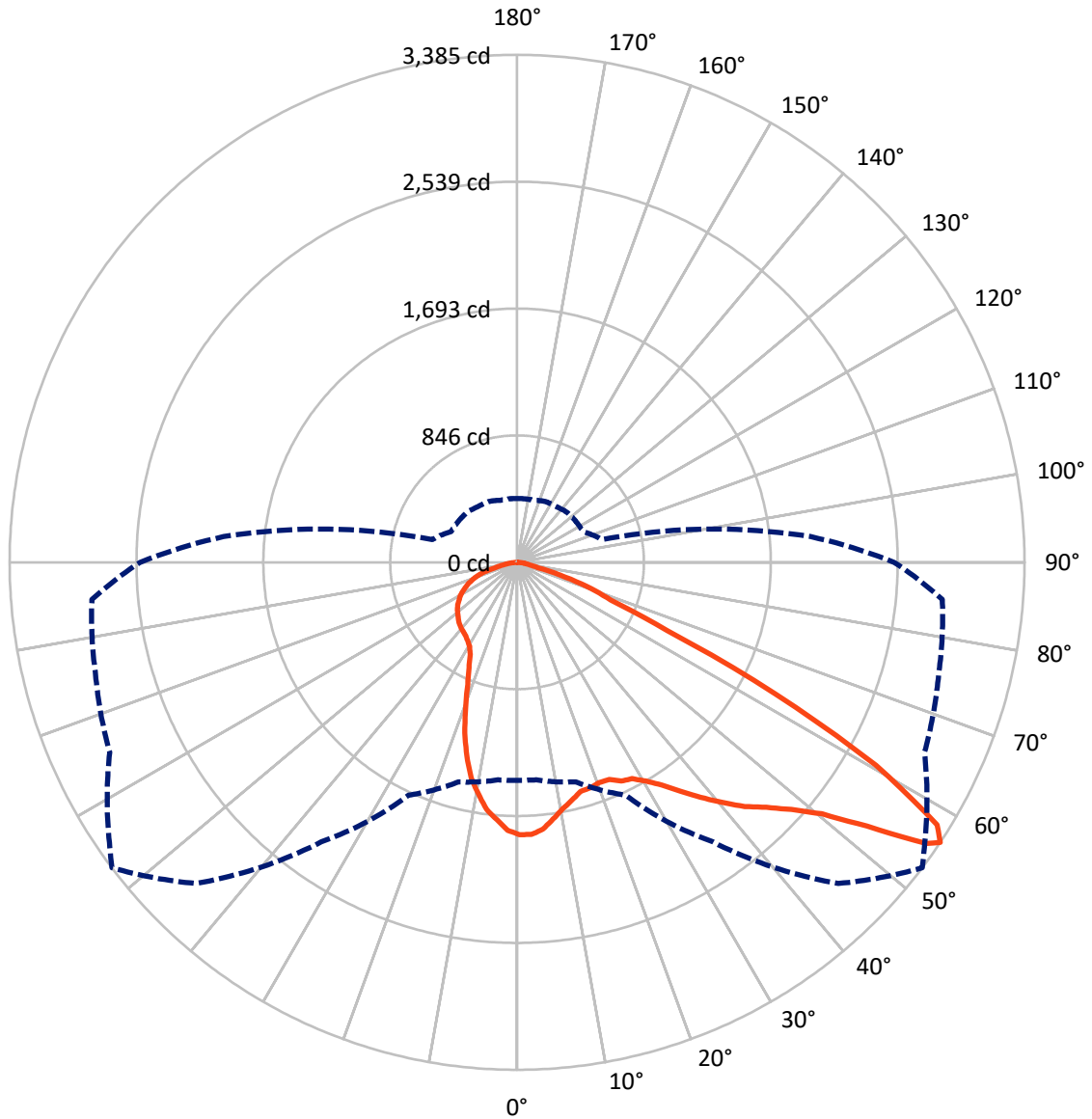
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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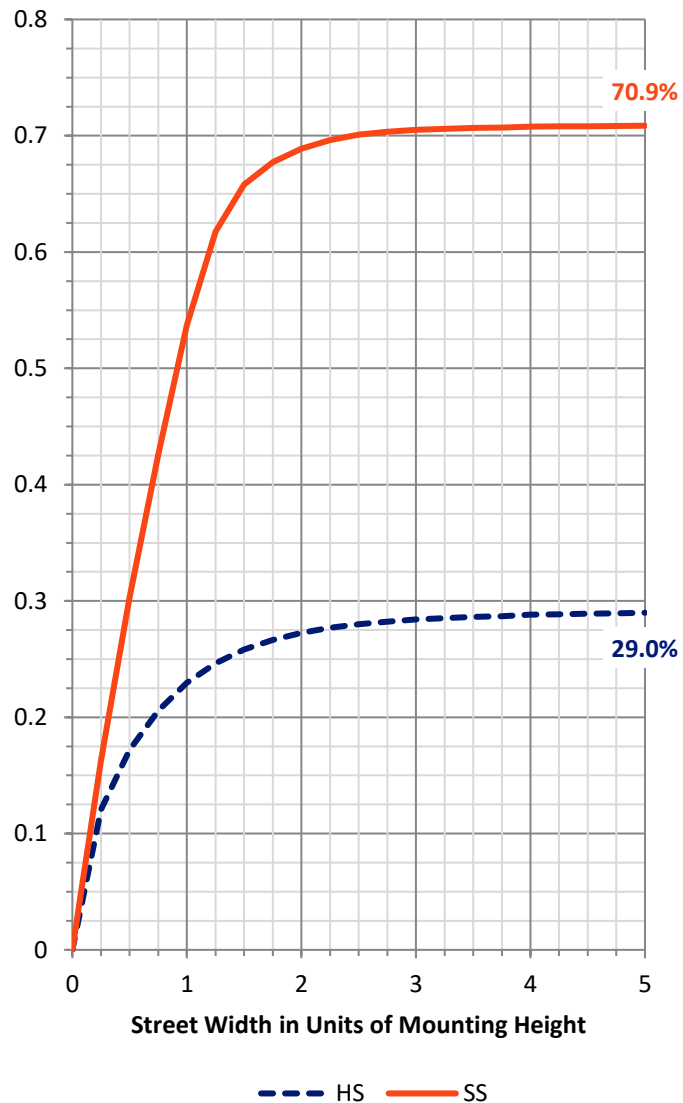
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1602.4	0.0	1602.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	3888.6	0.0	3888.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	5491.0	0.0	5491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.9
10°-20°	401.7	7.3
20°-30°	592.3	10.8
30°-40°	846.3	15.4
40°-50°	1164.8	21.2
50°-60°	1376.5	25.1
60°-70°	733.6	13.4
70°-80°	186.1	3.4
80°-90°	29.0	0.5
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°	5491.0	100.0
0°-180°	5491.0	100.0

Coefficient of Utilization



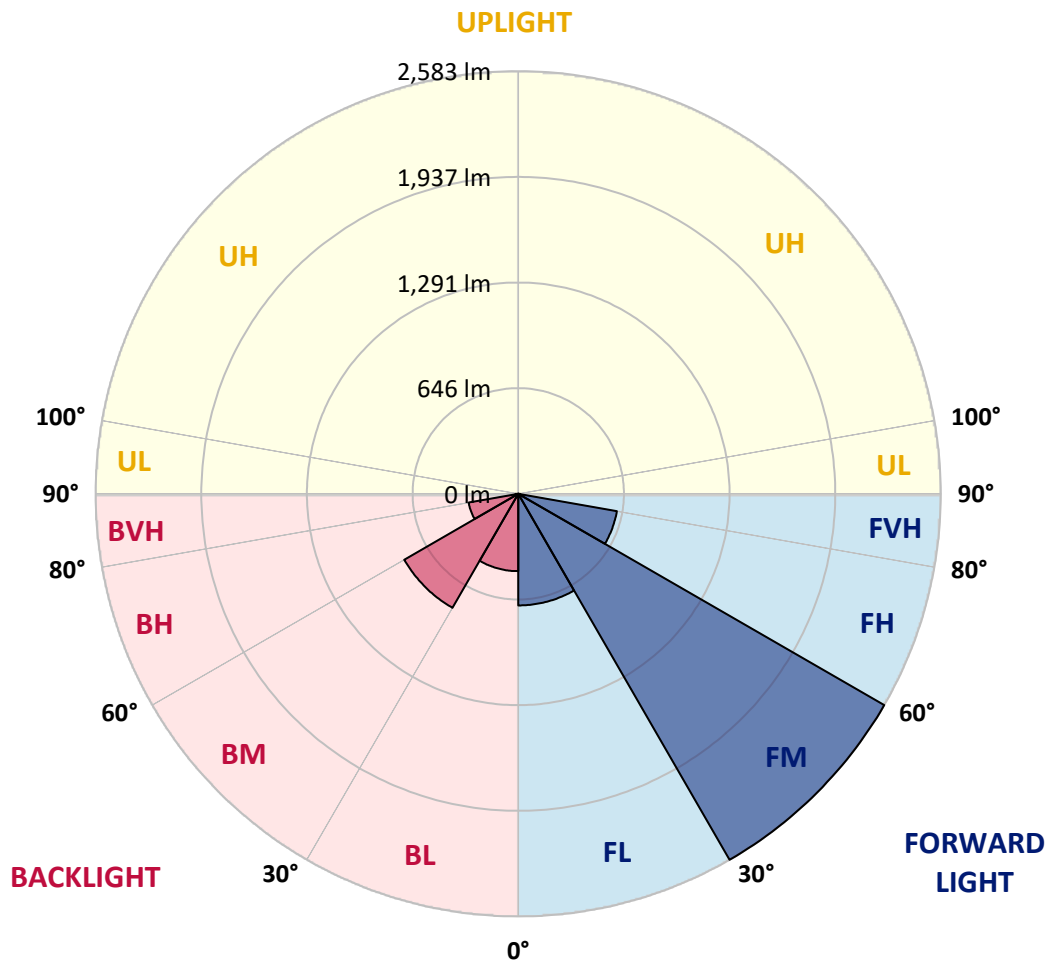
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.2	12.4			
FM (30°-60°)	2582.9	47.0			
FH (60°-80°)	611.9	11.1			G0/660
FVH (80°-90°)	11.7	0.2			G1/100
BL (0°-30°)	472.6	8.6	B1/500		
BM (30°-60°)	804.7	14.7	B1/1000		
BH (60°-80°)	307.8	5.6	B1/500		G1/500
BVH (80°-90°)	17.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1794.1	1778.6	1787.8	1784.2	1813.1	1821.6	1817.3	1820.9	1837.1	1829.3	1813.1
5°	1676.5	1698.3	1702.5	1713.1	1730.0	1763.1	1789.2	1796.2	1804.0	1839.9	1836.4
7.5°	1569.4	1584.2	1576.4	1607.4	1644.1	1697.6	1729.3	1734.9	1806.1	1825.8	1840.6
10°	1501.8	1487.0	1522.2	1530.7	1572.2	1633.5	1671.5	1694.8	1759.6	1837.8	1846.9
12.5°	1439.1	1434.2	1455.3	1479.2	1525.7	1589.1	1627.9	1637.0	1737.0	1819.5	1862.4
15°	1392.6	1387.0	1408.1	1425.7	1479.9	1536.3	1585.6	1611.7	1712.4	1808.9	1849.0
17.5°	1356.0	1355.3	1367.2	1398.9	1454.6	1501.8	1581.4	1582.8	1699.7	1825.1	1860.3
20°	1353.9	1353.1	1355.3	1390.5	1441.2	1499.0	1568.0	1580.7	1699.7	1813.8	1861.0
22.5°	1371.5	1360.2	1372.9	1395.4	1432.0	1503.9	1572.9	1601.1	1740.6	1869.5	1892.7
25°	1399.6	1402.5	1409.5	1417.2	1438.4	1515.2	1616.6	1639.8	1788.5	1917.4	1936.4
27.5°	1451.1	1449.6	1452.5	1456.7	1475.0	1525.7	1634.2	1694.1	1888.5	2002.6	1983.6
30°	1526.4	1521.5	1532.8	1547.6	1530.7	1559.5	1692.7	1737.7	1981.5	2088.5	2036.4
32.5°	1594.8	1613.1	1634.2	1640.5	1620.1	1625.7	1770.1	1815.9	2059.0	2194.2	2101.2
35°	1680.0	1694.8	1723.0	1742.7	1739.2	1722.3	1875.8	1936.4	2171.0	2271.7	2169.5
37.5°	1763.1	1780.7	1827.2	1885.7	1853.3	1845.5	1988.5	2038.5	2205.5	2313.2	2219.6
40°	1896.9	1896.2	1976.5	2006.8	2035.7	2022.3	2105.4	2122.3	2223.8	2304.1	2221.0
42.5°	2054.0	2044.2	2125.9	2173.1	2210.4	2211.8	2227.3	2221.7	2232.2	2257.6	2206.2
45°	2203.4	2224.5	2306.9	2391.4	2428.8	2433.0	2330.1	2319.6	2247.0	2244.2	2178.0
47.5°	2385.8	2390.7	2458.3	2569.6	2656.3	2626.7	2463.3	2440.0	2311.8	2333.7	2225.2
50°	2396.4	2433.0	2493.6	2624.6	2890.8	2883.1	2635.9	2592.2	2416.1	2460.5	2356.9
52.5°	2175.2	2166.7	2238.6	2452.7	2873.2	3138.1	2921.8	2817.6	2640.1	2606.3	2570.3
55°	1657.4	1677.2	1740.6	1956.8	2495.0	3141.6	3311.4	3226.1	2879.6	2821.8	2780.3
56°	1453.9	1456.7	1516.6	1713.8	2276.6	3029.6	3385.3	3316.3	2998.6	2910.6	2847.2
57.5°	1205.2	1189.0	1220.0	1327.8	1921.6	2792.9	3304.3	3371.9	3138.1	3006.4	2918.3
60°	948.8	945.3	932.6	952.3	1214.4	2104.0	2750.7	2902.8	3124.0	2916.2	2795.0
62.5°	774.8	757.2	782.6	810.8	843.9	1305.2	1932.9	2022.3	2480.2	2328.0	2099.8
65°	600.9	592.4	624.1	715.7	735.4	829.1	1101.0	1170.0	1464.4	1438.4	1266.5
67.5°	413.5	414.9	442.4	581.8	681.9	673.4	674.1	710.0	764.3	567.7	494.5
70°	262.0	261.3	276.1	374.7	548.7	554.4	526.2	515.6	488.9	295.8	313.5
72.5°	168.4	163.4	171.2	207.1	283.9	328.2	338.1	344.5	283.2	232.5	252.2
75°	95.1	90.2	87.3	96.5	112.0	129.6	142.3	146.5	164.1	176.1	186.7
77.5°	28.9	26.1	31.7	42.3	55.6	74.7	90.9	93.7	110.6	124.7	135.2
80°	12.7	14.1	19.7	28.2	39.4	52.8	64.1	68.3	79.6	90.2	93.0
82.5°	7.7	8.5	13.4	19.0	27.5	37.3	45.8	47.2	58.5	66.9	69.0
85°	2.8	3.5	7.0	11.3	17.6	23.9	23.9	26.1	23.9	23.9	26.1
87.5°	0.0	0.0	0.7	1.4	1.4	2.1	2.8	2.8	3.5	4.2	4.9
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°	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6	1816.6
2.5°	1821.6	1818.0	1812.4	1792.0	1789.9	1783.5	1748.3	1742.7	1748.3	1731.4	1732.8
5°	1818.0	1828.6	1786.4	1765.9	1727.9	1700.4	1668.7	1652.5	1623.6	1605.3	1625.7
7.5°	1833.5	1829.3	1776.5	1732.1	1675.1	1605.3	1549.7	1518.0	1467.3	1453.2	1463.7
10°	1827.9	1805.4	1743.4	1684.9	1577.1	1515.9	1425.7	1338.4	1290.5	1265.8	1262.3
12.5°	1820.2	1813.8	1710.3	1609.5	1496.1	1367.2	1240.4	1158.0	1079.8	1046.0	1051.0
15°	1829.3	1775.8	1648.3	1520.8	1370.1	1201.0	1064.3	958.0	903.7	881.9	881.9
17.5°	1825.1	1757.5	1618.7	1421.5	1230.6	1030.5	880.5	816.4	793.9	793.9	800.2
20°	1827.2	1769.4	1558.8	1322.2	1065.8	867.8	758.6	735.4	745.3	748.8	752.3
22.5°	1839.2	1730.0	1500.4	1213.0	912.9	742.4	688.9	689.6	707.2	726.2	722.7
25°	1854.0	1714.5	1429.2	1104.5	796.0	681.2	664.2	662.1	675.5	685.4	686.8
27.5°	1841.3	1687.7	1356.7	969.2	700.2	640.3	636.8	638.2	642.4	662.1	655.8
30°	1882.9	1695.5	1265.8	855.8	647.3	626.9	622.7	620.6	626.9	632.5	627.6
32.5°	1934.3	1668.0	1198.2	746.7	621.3	617.1	608.6	605.8	609.3	603.7	606.5
35°	1956.8	1663.1	1110.1	668.5	600.9	597.3	592.4	591.7	592.4	587.5	583.2
37.5°	1969.5	1686.3	1009.4	632.5	588.2	591.7	580.4	579.0	566.3	569.2	571.3
40°	1991.3	1650.4	927.7	598.0	580.4	573.4	563.5	561.4	553.0	548.0	553.0
42.5°	1959.6	1639.8	847.4	583.2	569.2	561.4	554.4	542.4	539.6	535.3	532.5
45°	1934.3	1579.3	775.5	564.9	555.8	551.5	538.2	525.5	514.9	519.1	512.8
47.5°	1953.3	1558.1	704.4	549.4	537.5	532.5	519.1	509.3	498.7	493.8	492.4
50°	2029.4	1597.6	644.5	538.2	522.0	519.1	501.5	490.3	480.4	476.9	478.3
52.5°	2211.1	1705.3	603.7	514.9	507.2	494.5	484.6	470.5	464.2	452.9	460.0
55°	2441.4	1880.7	593.1	493.1	488.9	477.6	464.2	453.6	441.7	432.5	430.4
56°	2515.4	1964.6	584.6	484.6	477.6	471.2	453.6	447.3	428.3	426.2	424.8
57.5°	2575.3	2038.5	586.1	468.4	461.4	455.7	445.2	429.7	417.0	409.3	412.8
60°	2440.0	1908.2	559.3	443.8	442.4	431.8	417.0	410.0	394.5	385.3	383.2
62.5°	1813.8	1295.4	453.6	412.1	411.4	400.1	383.2	375.4	372.6	359.9	359.9
65°	1044.6	812.2	392.3	386.0	380.4	369.1	352.2	345.9	338.8	334.6	331.1
67.5°	445.9	421.2	356.4	355.7	349.4	335.3	318.4	308.5	299.4	290.9	295.1
70°	323.3	328.2	321.9	318.4	310.6	293.0	278.2	266.3	252.2	246.5	250.8
72.5°	256.4	267.0	276.1	276.8	267.7	247.2	231.0	214.8	199.3	191.6	195.1
75°	194.4	201.5	210.6	212.7	199.3	185.3	169.8	152.9	140.9	131.7	133.1
77.5°	140.2	138.8	147.2	145.8	139.5	129.6	115.5	100.0	86.6	78.2	78.9
80°	95.8	97.9	102.8	102.1	94.4	88.0	77.5	64.8	54.9	47.9	46.5
82.5°	66.9	70.4	74.7	71.1	64.8	58.5	50.7	41.6	33.8	28.2	26.8
85°	23.9	27.5	31.7	33.8	35.9	34.5	28.9	23.2	16.9	14.1	13.4
87.5°	4.9	5.6	6.3	6.3	6.3	5.6	4.9	4.9	4.2	2.1	2.1
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)