

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: P522695

Luminaire Tested: **GALN-SA3B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14216 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

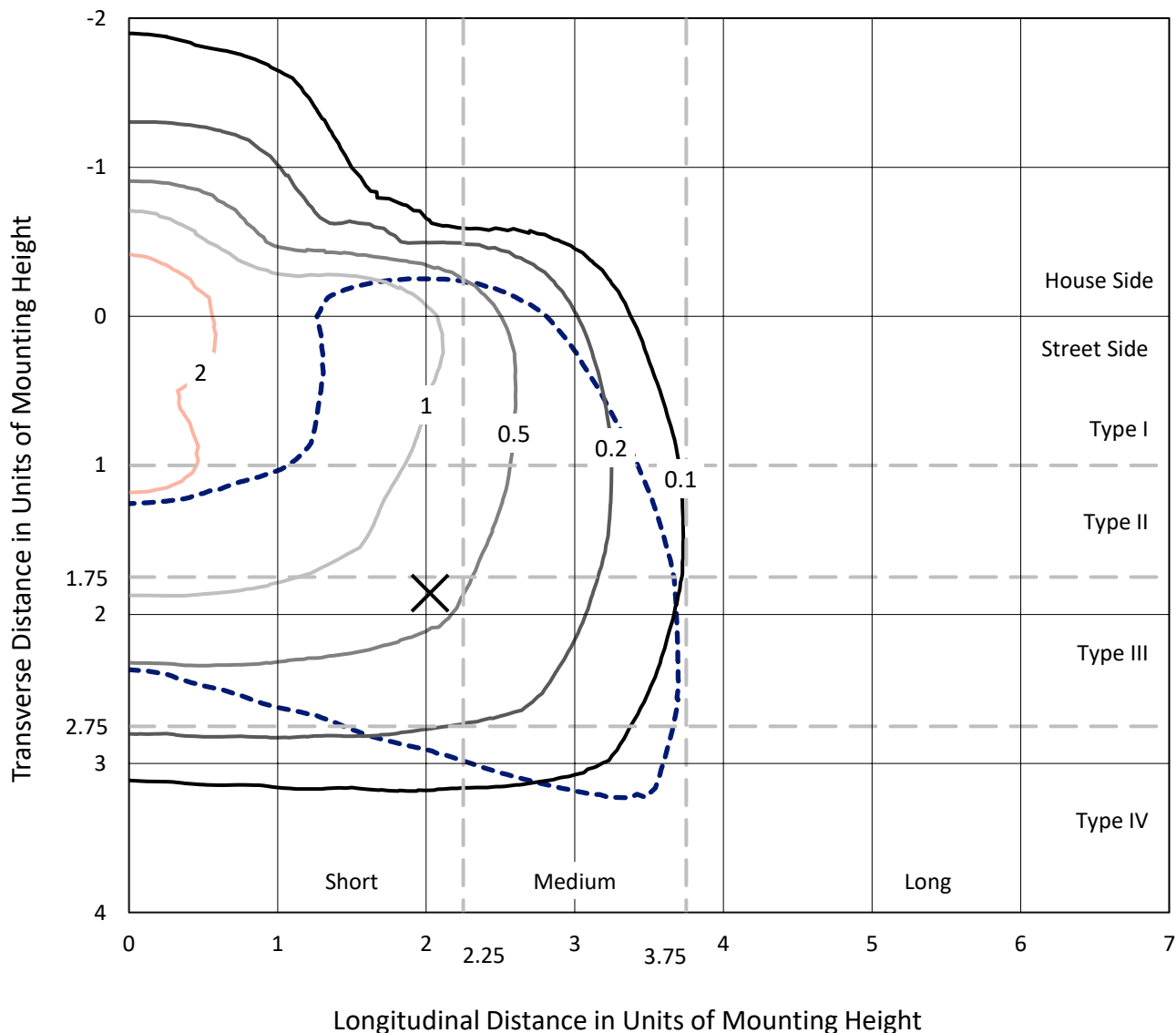
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

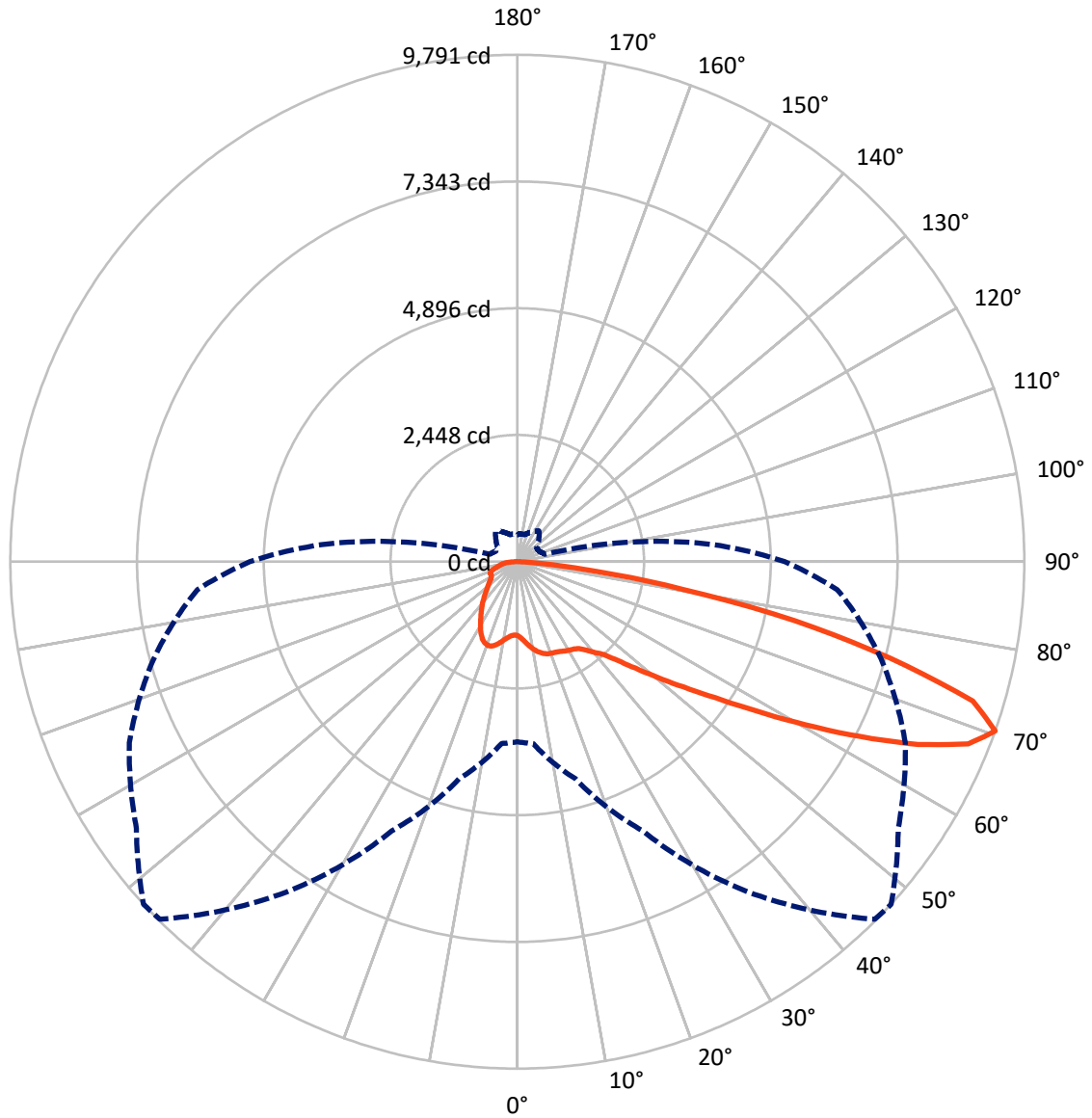
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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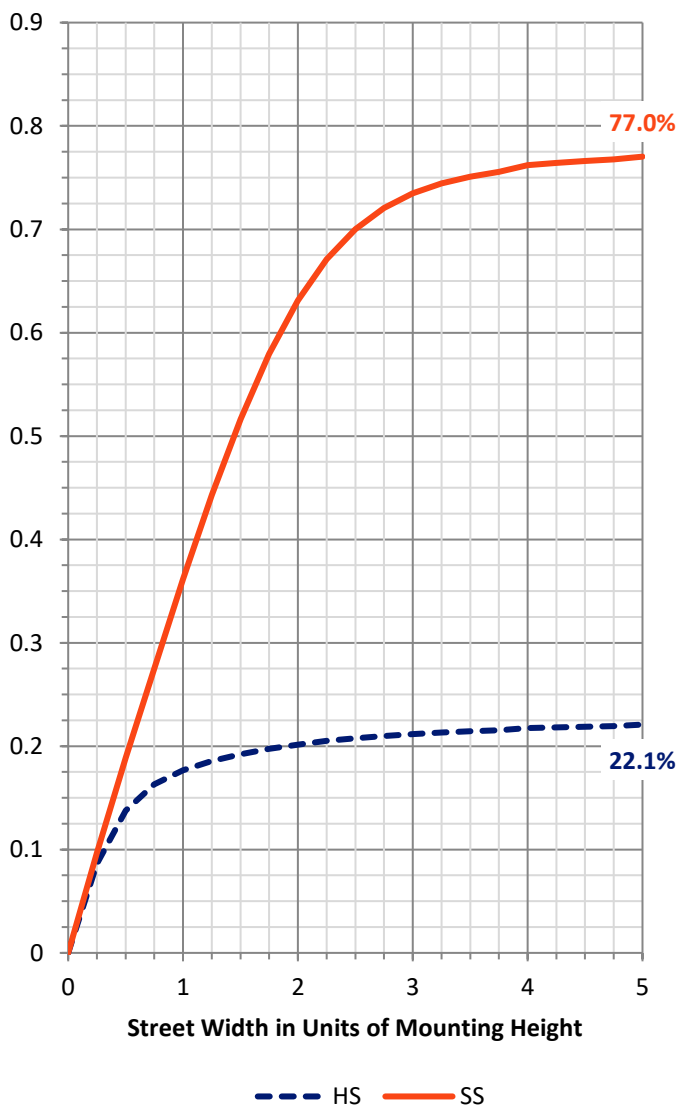
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3218.8	0.0	3218.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10997.2	0.0	10997.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	14216.0	0.0	14216.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.0
10°-20°	491.8	3.5
20°-30°	817.8	5.8
30°-40°	1159.2	8.2
40°-50°	1711.2	12.0
50°-60°	2963.8	20.8
60°-70°	4186.5	29.4
70°-80°	2406.6	16.9
80°-90°	332.1	2.3
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°	14216.0	100.0
0°-180°	14216.0	100.0

Coefficient of Utilization



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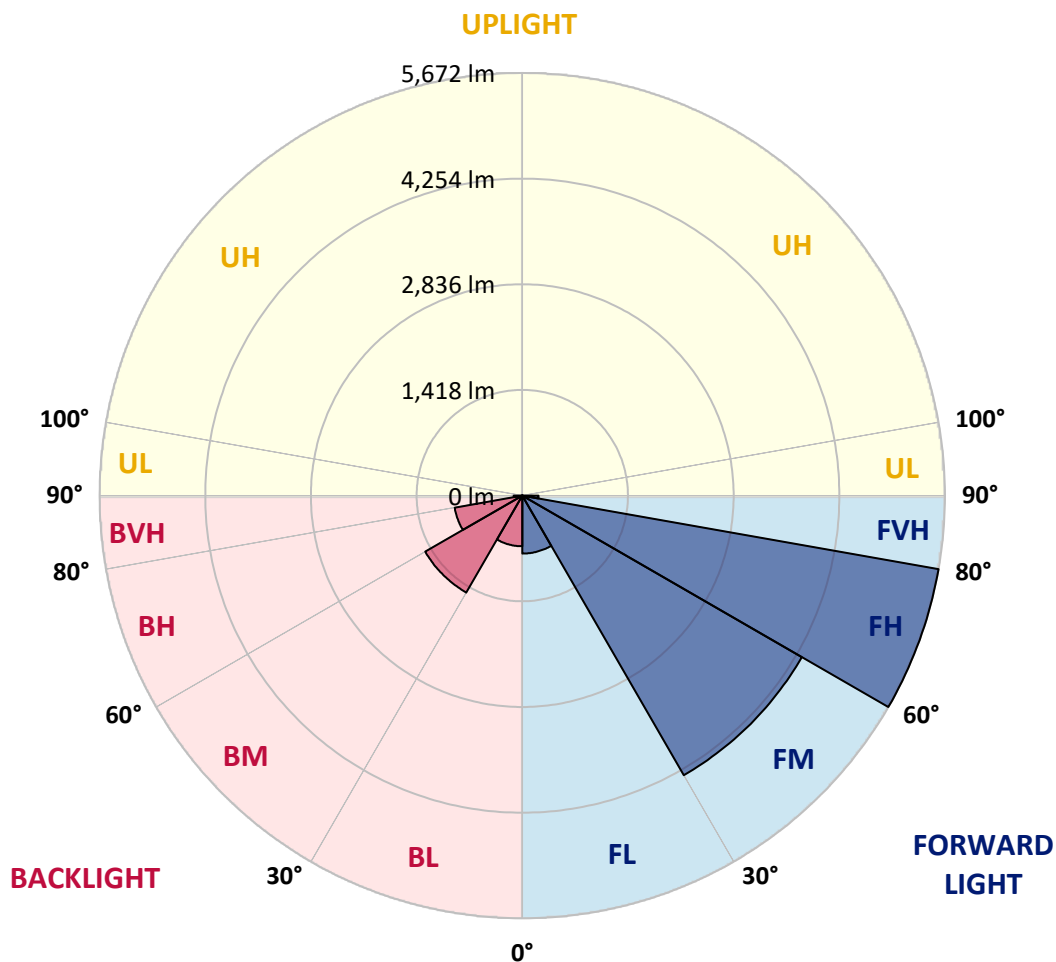
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.4	5.5			
FM	(30°-60°)	4331.3	30.5			
FH	(60°-80°)	5671.6	39.9			G3/7500
FVH	(80°-90°)	216.9	1.5			G2/225
BL	(0°-30°)	679.3	4.8	B2/1000		
BM	(30°-60°)	1502.8	10.6	B2/2500		
BH	(60°-80°)	921.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	115.1	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1519.2	1513.8	1513.1	1501.7	1495.6	1484.2	1479.6	1469.0	1456.0	1443.1	1430.9
5°	1638.6	1638.6	1633.3	1617.3	1592.2	1566.3	1554.9	1534.4	1497.9	1468.2	1443.1
7.5°	1761.1	1762.6	1751.9	1728.4	1692.6	1650.8	1640.1	1609.7	1558.0	1514.6	1477.3
10°	1866.8	1866.8	1852.4	1820.4	1775.5	1729.9	1719.2	1685.0	1627.2	1573.2	1524.5
12.5°	1947.4	1947.4	1928.4	1886.6	1837.9	1796.8	1784.7	1751.9	1697.9	1637.8	1576.2
15°	1999.9	1996.1	1974.8	1927.7	1880.5	1844.8	1836.4	1809.0	1759.6	1698.7	1629.5
17.5°	2002.2	2000.7	1980.2	1940.6	1899.5	1875.2	1869.9	1851.6	1812.8	1755.0	1682.0
20°	1958.1	1961.1	1947.4	1919.3	1899.5	1888.9	1886.6	1880.5	1853.1	1799.1	1726.1
22.5°	1910.9	1916.3	1903.3	1888.1	1886.6	1897.2	1898.8	1900.3	1882.8	1830.3	1763.4
25°	1899.5	1903.3	1890.4	1876.7	1885.1	1913.2	1919.3	1925.4	1911.7	1867.6	1807.5
27.5°	1957.3	1954.3	1929.2	1899.5	1904.8	1942.9	1951.3	1958.1	1951.3	1913.2	1862.2
30°	2120.9	2111.0	2060.8	1974.1	1946.7	1973.3	1981.7	2000.7	2000.7	1972.6	1921.6
32.5°	2394.8	2375.7	2283.7	2113.3	2018.2	2002.2	2010.6	2041.8	2057.8	2035.7	1980.2
35°	2727.2	2707.4	2575.8	2346.8	2149.0	2060.0	2057.8	2092.7	2135.3	2085.9	2013.6
37.5°	3061.1	3040.6	2882.4	2625.3	2340.0	2181.8	2168.1	2180.2	2198.5	2108.0	2060.0
40°	3395.1	3370.8	3232.3	2936.4	2573.5	2343.0	2307.3	2252.5	2244.9	2180.2	2149.8
42.5°	3726.0	3704.0	3634.0	3285.6	2853.5	2500.5	2445.7	2351.4	2380.3	2341.5	2314.9
45°	4060.0	4061.5	3986.9	3677.3	3191.2	2791.1	2717.3	2569.7	2638.2	2623.7	2638.9
47.5°	4355.9	4352.1	4325.5	4057.7	3610.4	3165.4	3070.3	2899.1	3016.3	3069.5	3185.9
50°	4642.7	4640.4	4641.9	4489.0	4097.3	3610.4	3505.4	3325.9	3589.8	3774.7	3983.1
52.5°	5053.5	5066.4	4974.4	4934.0	4689.1	4136.0	4020.4	3834.8	4267.7	4559.0	4966.0
55°	5465.8	5455.1	5382.9	5424.7	5308.3	4758.3	4637.4	4489.8	5022.3	5341.0	5952.7
57.5°	5708.5	5712.3	5786.1	5990.7	6072.8	5534.3	5424.7	5310.6	5870.5	6096.4	6830.5
60°	5926.8	5944.3	6156.5	6543.0	6765.9	6487.4	6390.1	6279.0	6648.7	6738.5	7592.8
62.5°	5995.3	6049.3	6419.7	6997.9	7441.4	7563.1	7442.1	7197.2	7389.7	7354.7	8109.3
65°	5653.7	5727.5	6391.6	7168.3	8044.6	8584.0	8507.2	8052.2	8021.1	7810.3	8193.7
67.5°	4754.5	4828.3	5681.1	6810.7	8294.2	9468.0	9391.1	8676.0	8404.5	7852.9	7554.7
70°	3478.8	3525.2	4340.7	5734.3	7792.8	9764.6	9791.3	8980.3	8267.5	7274.0	6202.9
72.5°	2004.5	2107.2	2678.5	4034.1	6366.5	9014.6	9199.4	8347.4	7401.8	6068.3	4336.9
75°	861.9	864.2	1238.5	2225.1	4311.8	7245.9	7424.7	6919.5	5812.7	4196.1	2315.6
77.5°	410.0	417.6	544.7	993.5	2373.5	5006.3	5488.6	4888.4	3717.7	2015.9	874.8
80°	266.3	271.6	333.2	492.9	1163.9	2902.9	3239.2	2820.0	1640.1	720.4	377.3
82.5°	161.3	162.8	222.9	301.2	640.5	1314.5	1549.6	1224.0	699.9	431.3	222.1
85°	98.1	98.9	135.4	186.4	388.7	454.2	466.3	462.5	410.8	282.2	118.7
87.5°	47.2	48.7	70.0	88.2	152.9	140.7	133.1	154.4	194.0	152.1	51.0
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°	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1	1427.1
2.5°	1425.6	1423.3	1418.0	1415.7	1414.2	1414.9	1414.2	1414.2	1414.9	1414.9	1414.9
5°	1432.4	1428.6	1420.3	1420.3	1424.8	1435.5	1445.4	1453.0	1461.3	1460.6	1460.6
7.5°	1462.1	1455.3	1445.4	1448.4	1459.8	1476.6	1494.1	1510.8	1527.5	1529.1	1528.3
10°	1505.5	1498.6	1488.0	1491.8	1510.0	1535.1	1557.2	1581.5	1599.8	1605.1	1603.6
12.5°	1554.9	1541.2	1532.1	1542.7	1571.7	1605.1	1626.4	1644.7	1657.6	1665.2	1662.2
15°	1605.1	1592.2	1581.5	1603.6	1638.6	1669.8	1680.4	1683.5	1685.8	1693.4	1691.8
17.5°	1653.8	1636.3	1632.5	1661.4	1694.9	1708.6	1702.5	1689.6	1679.7	1685.8	1685.0
20°	1697.2	1683.5	1682.0	1710.9	1723.8	1710.9	1685.0	1662.2	1644.7	1646.2	1645.4
22.5°	1738.3	1727.6	1729.1	1741.3	1720.8	1676.6	1634.0	1602.8	1583.8	1587.6	1589.9
25°	1783.9	1773.2	1777.0	1757.3	1689.6	1612.7	1551.1	1524.5	1516.9	1524.5	1529.8
27.5°	1843.2	1836.4	1834.1	1758.0	1634.0	1518.4	1448.4	1438.5	1445.4	1462.1	1470.5
30°	1907.1	1907.1	1895.0	1745.1	1558.0	1405.1	1344.2	1345.7	1369.3	1392.9	1401.3
32.5°	1968.7	1981.7	1943.6	1710.1	1459.8	1294.7	1248.3	1249.9	1270.4	1299.3	1306.9
35°	2019.7	2057.0	1985.5	1646.2	1344.2	1201.9	1166.9	1146.4	1147.2	1169.2	1175.3
37.5°	2089.7	2158.9	2009.8	1551.1	1221.0	1122.8	1083.3	1047.5	1023.9	1014.8	1014.8
40°	2211.4	2313.4	2015.9	1410.4	1104.6	1047.5	991.2	948.6	903.0	861.9	854.3
42.5°	2417.6	2546.1	2003.7	1248.3	999.6	964.6	909.8	857.3	794.2	736.4	731.8
45°	2782.7	2848.9	1971.0	1080.2	906.0	884.7	831.5	774.4	707.5	655.7	651.9
47.5°	3367.7	3274.1	1927.7	931.1	820.8	814.7	773.7	707.5	640.5	604.8	601.0
50°	4222.0	3943.6	1921.6	823.1	752.4	755.4	721.9	661.1	602.5	572.8	568.3
52.5°	5250.5	4752.2	1961.9	747.0	692.3	703.7	686.9	630.6	578.9	553.8	549.2
55°	6248.6	5479.5	1986.2	687.7	636.0	657.3	659.5	612.4	565.2	540.1	537.1
57.5°	7058.7	6027.2	1878.2	633.7	587.3	620.0	636.7	601.7	558.4	539.4	536.3
60°	7622.4	6285.8	1570.9	585.8	551.5	590.3	628.4	602.5	575.1	577.4	578.9
62.5°	7802.0	6171.0	1178.4	550.0	527.2	580.4	642.0	633.7	605.5	623.0	626.1
65°	7504.5	5696.3	854.3	521.9	505.9	587.3	683.1	656.5	594.9	607.8	607.8
67.5°	6508.7	4907.4	664.9	496.0	481.5	600.2	724.2	654.2	569.8	585.0	571.3
70°	5163.0	3796.0	553.8	467.1	455.7	581.2	728.0	630.6	540.1	543.2	517.3
72.5°	3426.3	2495.9	476.2	439.7	416.1	522.6	696.8	600.2	511.2	493.7	467.8
75°	1678.9	1244.5	415.4	405.5	364.4	454.9	654.2	571.3	480.0	452.6	438.2
77.5°	650.4	529.5	354.5	362.1	317.2	400.9	597.9	530.2	438.9	401.7	390.3
80°	315.7	300.5	290.6	302.0	260.9	341.6	546.2	494.5	400.9	359.8	343.1
82.5°	196.3	185.6	222.9	235.1	200.8	311.9	518.1	464.0	353.0	298.2	284.5
85°	99.7	106.5	149.1	160.5	143.8	248.0	426.8	348.4	254.8	211.5	213.0
87.5°	38.0	51.0	78.4	84.4	76.8	130.8	235.1	203.1	163.6	111.1	102.7
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)