

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: P452445

Luminaire Tested: **GALN-SA3B-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12383 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

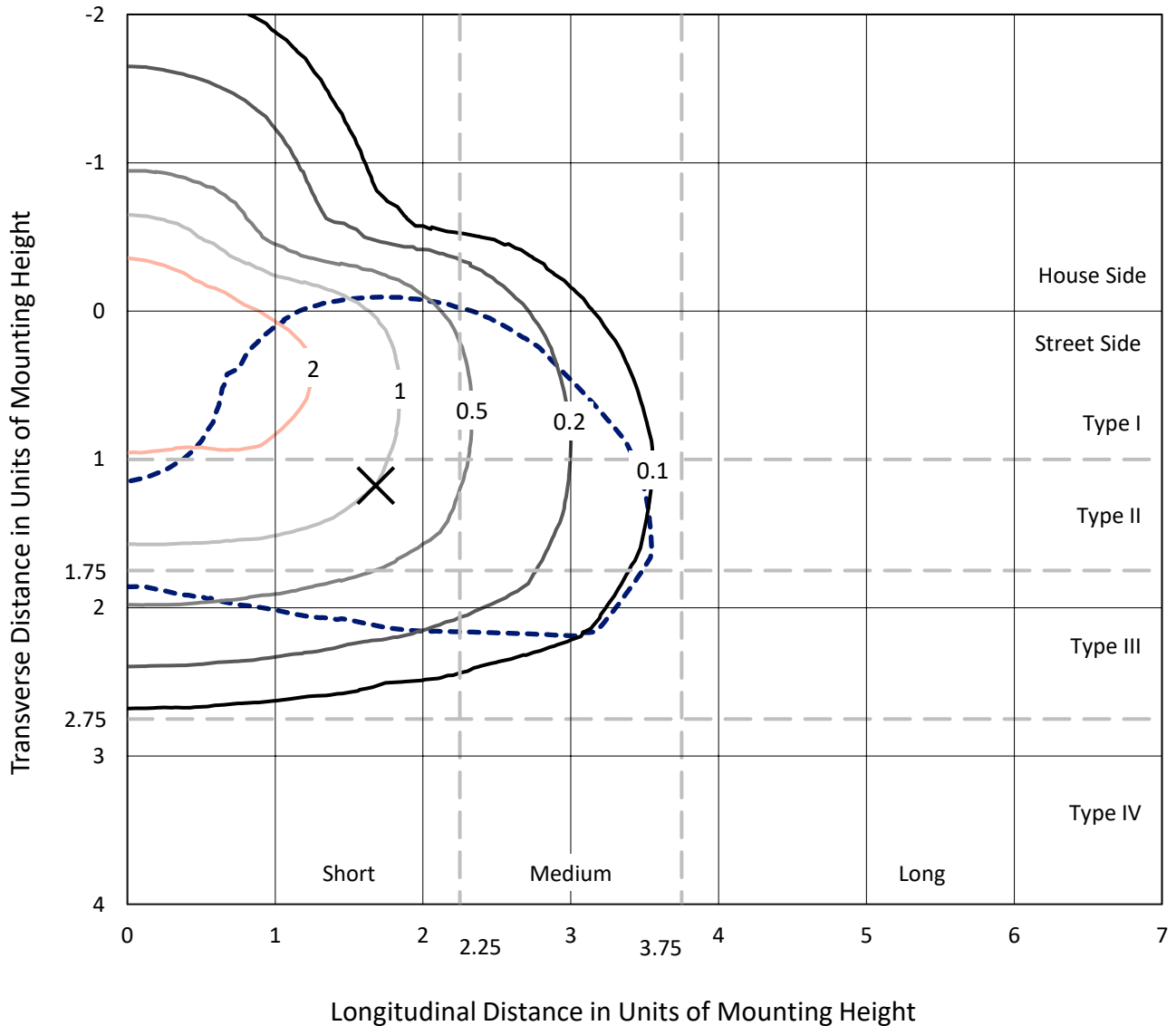
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

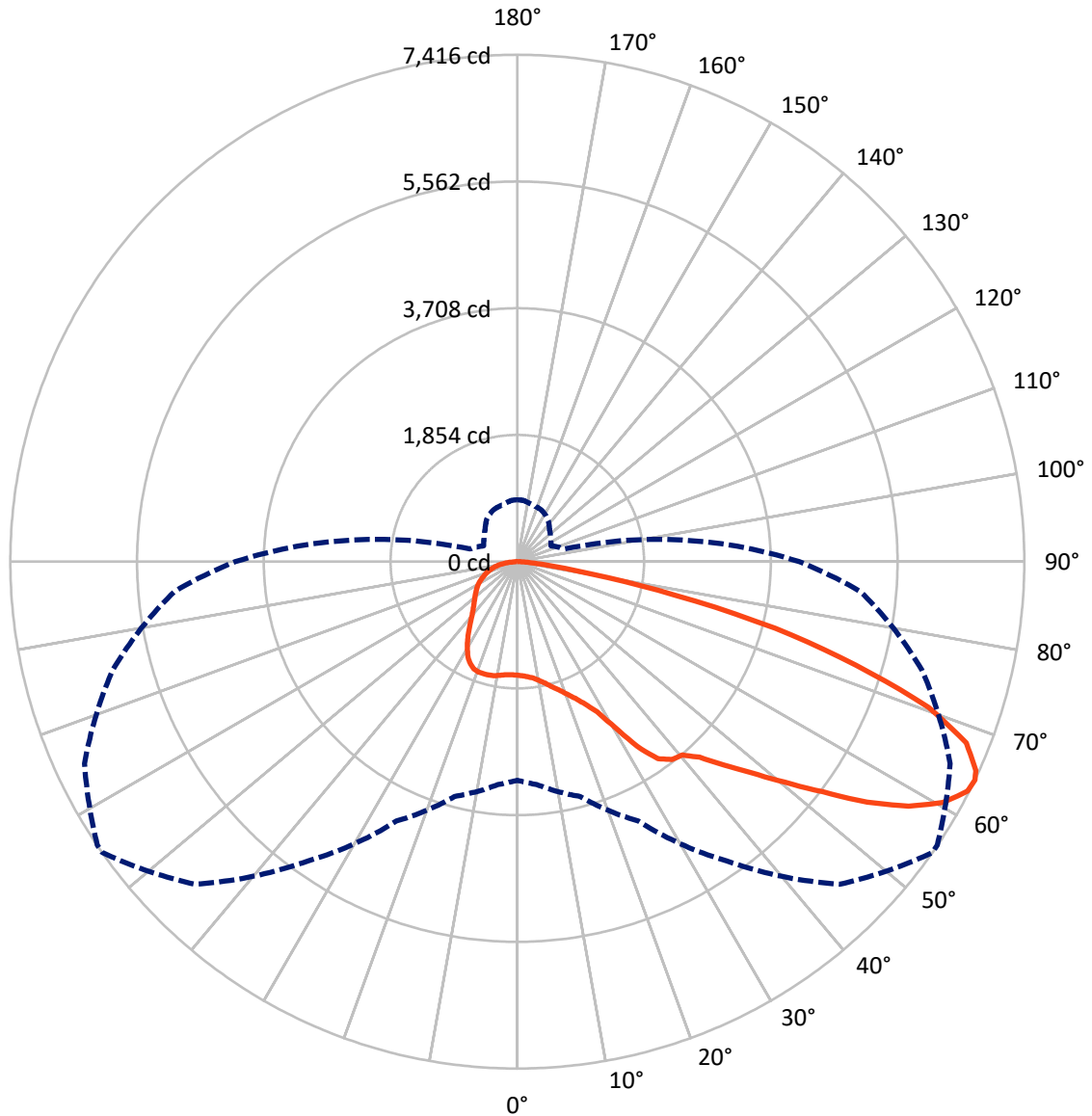
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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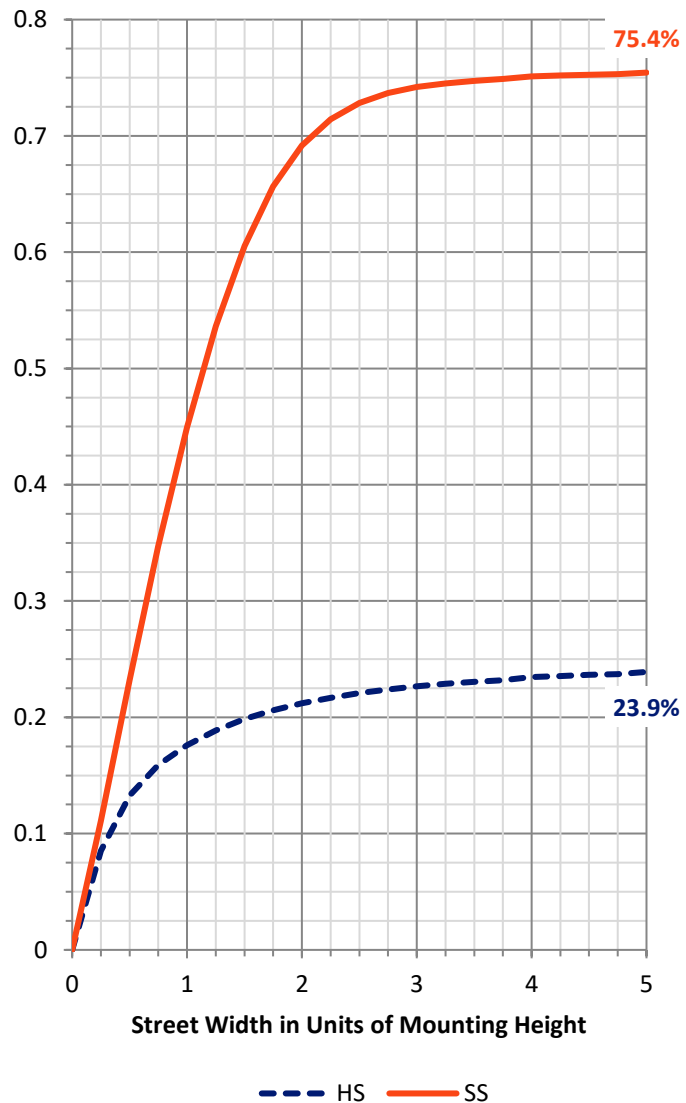
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3008.1	0.0	3008.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	9374.9	0.0	9374.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	12383.0	0.0	12383.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.3
10°-20°	509.9	4.1
20°-30°	907.8	7.3
30°-40°	1396.8	11.3
40°-50°	1980.0	16.0
50°-60°	2866.1	23.1
60°-70°	2966.1	24.0
70°-80°	1389.0	11.2
80°-90°	205.6	1.7
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°	12383.0	100.0
0°-180°	12383.0	100.0



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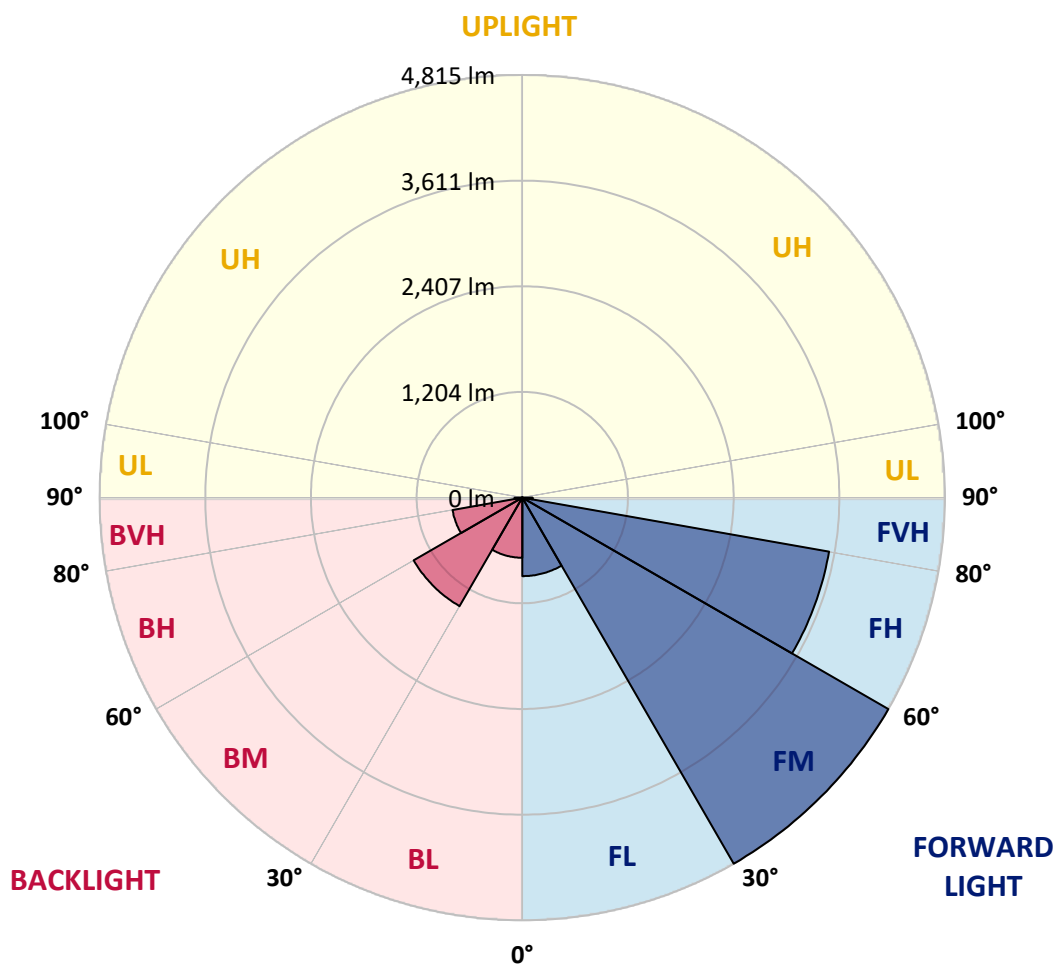
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.2	7.2			
FM	(30°-60°)	4814.8	38.9			
FH	(60°-80°)	3548.1	28.7			G2/5000
FVH	(80°-90°)	117.7	1.0			G2/225
BL	(0°-30°)	685.1	5.5	B2/1000		
BM	(30°-60°)	1428.1	11.5	B2/2500		
BH	(60°-80°)	807.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	87.9	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4
2.5°	1680.1	1679.4	1681.4	1679.4	1680.8	1675.9	1673.8	1675.2	1673.2	1669.7	1663.5
5°	1700.8	1700.1	1700.8	1698.0	1699.4	1696.6	1691.8	1693.2	1689.7	1682.1	1673.2
7.5°	1736.0	1733.2	1733.2	1732.5	1729.8	1725.6	1722.2	1720.8	1717.3	1707.7	1693.9
10°	1781.5	1781.5	1782.2	1776.7	1780.1	1772.6	1769.1	1768.4	1756.7	1744.3	1724.9
12.5°	1841.6	1845.0	1843.0	1840.2	1838.8	1836.1	1824.3	1827.1	1814.0	1792.6	1769.1
15°	1916.1	1921.6	1918.2	1916.8	1913.4	1903.0	1898.2	1896.1	1878.9	1847.8	1816.7
17.5°	2014.8	2007.9	2005.2	2001.7	1987.2	1979.6	1971.3	1970.0	1954.8	1918.2	1869.9
20°	2101.1	2110.8	2105.3	2101.8	2087.3	2072.8	2066.6	2064.5	2051.4	2011.4	1934.1
22.5°	2204.0	2206.0	2208.1	2199.8	2192.9	2181.9	2170.8	2167.4	2162.5	2121.1	2026.6
25°	2313.7	2322.0	2315.1	2306.8	2298.5	2297.8	2308.2	2306.8	2304.7	2264.7	2149.4
27.5°	2492.5	2500.1	2502.1	2493.2	2461.4	2464.2	2487.7	2495.2	2527.0	2460.7	2307.5
30°	2593.3	2600.9	2618.1	2651.9	2702.3	2746.5	2803.1	2820.3	2850.7	2725.8	2495.2
32.5°	2655.4	2658.1	2689.2	2752.0	2903.2	3068.1	3222.1	3228.3	3247.6	3072.3	2667.1
35°	2753.4	2755.5	2780.3	2849.3	3026.7	3301.5	3539.6	3547.2	3531.3	3180.0	2747.2
37.5°	2874.2	2879.7	2895.6	2952.9	3164.8	3496.8	3671.4	3665.9	3525.1	3265.6	2888.7
40°	3050.2	3050.2	3031.6	3108.9	3310.4	3608.6	3717.7	3708.0	3670.7	3513.4	3104.0
42.5°	3205.5	3202.7	3246.9	3299.4	3492.7	3781.2	3911.6	3927.5	3988.9	3824.7	3349.1
45°	3407.8	3420.2	3445.0	3540.3	3802.6	4075.9	4244.3	4259.5	4346.5	4191.2	3635.5
47.5°	3612.1	3616.2	3694.2	3821.2	4186.3	4475.6	4613.6	4638.5	4717.8	4619.8	3944.1
50°	3757.0	3796.4	3921.3	4121.5	4581.9	4962.9	5070.6	5100.2	5240.4	5086.4	4303.7
52.5°	3910.2	3948.9	4101.4	4406.5	5036.0	5461.2	5593.8	5613.8	5759.4	5558.6	4671.6
55°	4041.4	4077.3	4250.5	4659.2	5397.7	5969.9	6210.2	6186.7	6256.4	5922.3	4955.3
57.5°	4062.8	4091.8	4309.9	4820.7	5669.7	6406.2	6750.6	6764.4	6683.7	6194.3	5189.3
60°	3897.1	3956.5	4207.1	4803.4	5791.9	6709.9	7153.7	7163.4	6934.2	6333.7	5282.5
62.5°	3603.8	3597.6	3900.6	4526.0	5620.7	6778.9	7391.2	7380.8	7032.2	6266.8	5192.0
64°	3198.6	3273.2	3556.2	4185.0	5344.6	6672.6	7416.0	7410.5	6985.3	6127.3	5038.1
65°	2951.5	2947.4	3226.9	3906.1	5069.9	6512.5	7371.8	7364.2	6887.3	6002.4	4918.7
67.5°	2130.8	2140.5	2416.6	3014.3	4121.5	5886.4	7084.0	7055.7	6500.7	5588.2	4464.5
70°	1290.8	1296.3	1513.0	1999.6	2958.4	4758.6	6385.5	6386.9	5909.2	4969.8	3799.8
72.5°	679.9	694.4	781.4	1135.5	1796.7	3338.7	5180.3	5303.2	5073.3	4241.6	3001.9
75°	378.3	380.3	441.8	559.8	916.6	1868.5	3893.7	3928.9	4016.5	3414.0	2219.8
77.5°	288.5	292.7	312.0	361.7	499.0	866.3	2356.5	2533.2	2830.7	2406.9	1266.6
80°	234.0	238.1	254.7	284.4	332.0	410.7	1094.7	1190.0	1515.1	1068.5	494.2
82.5°	182.2	179.5	200.9	220.2	241.6	243.0	449.4	497.0	617.1	459.7	214.0
85°	135.3	135.3	152.5	148.4	156.0	142.2	198.1	218.8	247.1	195.3	99.4
87.5°	53.8	59.4	100.1	89.7	69.7	55.9	73.2	77.3	85.6	76.6	41.4
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°	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4	1661.4
2.5°	1664.2	1666.3	1661.4	1658.0	1656.6	1654.5	1652.5	1653.1	1655.9	1658.7	1658.0
5°	1672.5	1673.2	1664.9	1660.7	1658.0	1655.2	1655.2	1657.3	1662.8	1666.9	1666.9
7.5°	1693.2	1693.2	1681.4	1673.8	1669.7	1664.9	1663.5	1664.2	1668.3	1673.8	1674.5
10°	1725.6	1722.9	1707.7	1695.9	1688.3	1676.6	1666.3	1660.7	1662.8	1666.3	1666.3
12.5°	1765.0	1757.4	1738.0	1722.2	1703.5	1681.4	1660.0	1649.0	1648.3	1651.8	1650.4
15°	1807.1	1798.8	1771.9	1742.9	1710.4	1678.0	1652.5	1636.6	1624.2	1620.7	1628.3
17.5°	1856.1	1838.8	1801.5	1761.5	1713.2	1671.1	1631.1	1598.6	1576.5	1570.3	1572.4
20°	1915.4	1892.7	1842.3	1779.5	1711.1	1646.2	1584.1	1540.6	1504.7	1493.7	1495.1
22.5°	1997.6	1958.2	1884.4	1788.4	1693.9	1599.3	1513.0	1456.4	1412.9	1395.7	1406.0
25°	2090.8	2048.0	1924.4	1786.4	1649.0	1524.1	1428.8	1355.0	1315.6	1290.1	1295.6
27.5°	2219.1	2143.2	1967.2	1767.7	1584.8	1432.3	1321.8	1252.1	1216.2	1203.1	1209.3
30°	2383.4	2266.8	2013.5	1717.3	1483.3	1316.3	1214.1	1168.6	1147.2	1130.6	1136.1
32.5°	2502.1	2353.7	2023.8	1632.4	1373.6	1210.7	1141.0	1107.2	1083.7	1067.8	1071.3
35°	2587.0	2427.6	2019.0	1528.2	1259.0	1123.7	1083.0	1055.4	1017.4	982.9	976.7
37.5°	2700.9	2520.1	1983.8	1414.3	1145.8	1065.1	1036.1	985.0	930.5	884.2	882.1
40°	2875.6	2628.5	1908.5	1280.4	1049.2	1021.6	986.4	920.1	861.4	824.2	821.4
42.5°	3055.7	2728.5	1806.4	1139.6	969.8	976.0	933.2	867.6	831.7	807.6	804.8
45°	3275.9	2836.9	1695.9	1017.4	911.1	933.2	887.0	849.0	827.6	811.7	807.6
47.5°	3514.0	2948.0	1571.7	907.7	861.4	893.9	867.6	850.4	838.7	827.6	822.8
50°	3770.8	3072.3	1455.0	819.3	816.6	853.1	865.6	859.4	852.5	849.0	844.9
52.5°	4052.4	3199.3	1357.0	757.2	777.2	824.2	866.3	871.1	871.1	869.0	866.3
55°	4242.9	3287.6	1257.6	706.8	737.2	800.7	864.9	883.5	890.4	887.7	884.9
57.5°	4383.8	3336.0	1132.7	663.3	703.4	777.9	857.3	884.9	891.8	895.3	893.9
60°	4412.7	3291.1	969.1	617.8	666.8	744.8	829.7	864.2	873.2	894.6	896.6
62.5°	4282.3	3153.0	806.2	572.9	621.9	694.4	792.4	840.7	858.7	891.8	895.3
64°	4122.2	2998.4	715.8	544.6	592.9	666.1	773.8	834.5	858.0	902.2	904.9
65°	4004.8	2885.9	659.2	526.7	574.3	647.5	763.4	836.6	864.2	918.0	922.2
67.5°	3572.7	2498.7	545.3	484.6	530.1	615.7	765.5	853.8	862.8	924.2	923.6
70°	2956.3	1989.3	456.9	445.9	487.3	590.2	757.2	826.2	826.9	867.6	858.0
72.5°	2213.6	1470.2	396.2	405.9	439.7	529.4	715.1	789.0	777.2	782.7	773.1
75°	1520.6	972.6	341.0	363.1	390.0	468.0	655.7	716.5	697.8	690.9	684.0
77.5°	811.7	537.7	283.7	321.0	338.9	404.5	572.2	630.9	611.6	584.6	575.7
80°	328.6	253.3	228.5	265.7	276.1	325.8	476.3	512.9	498.4	451.4	436.2
82.5°	165.0	151.9	179.5	209.1	209.8	232.6	354.1	388.6	356.2	298.9	285.8
85°	86.3	89.0	123.6	147.0	129.8	125.6	212.6	235.4	216.0	187.7	169.1
87.5°	31.1	35.9	64.9	64.2	45.6	24.2	46.9	22.8	12.4	7.6	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)