

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: P529049

Luminaire Tested: **GALN-SA4A-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8585 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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



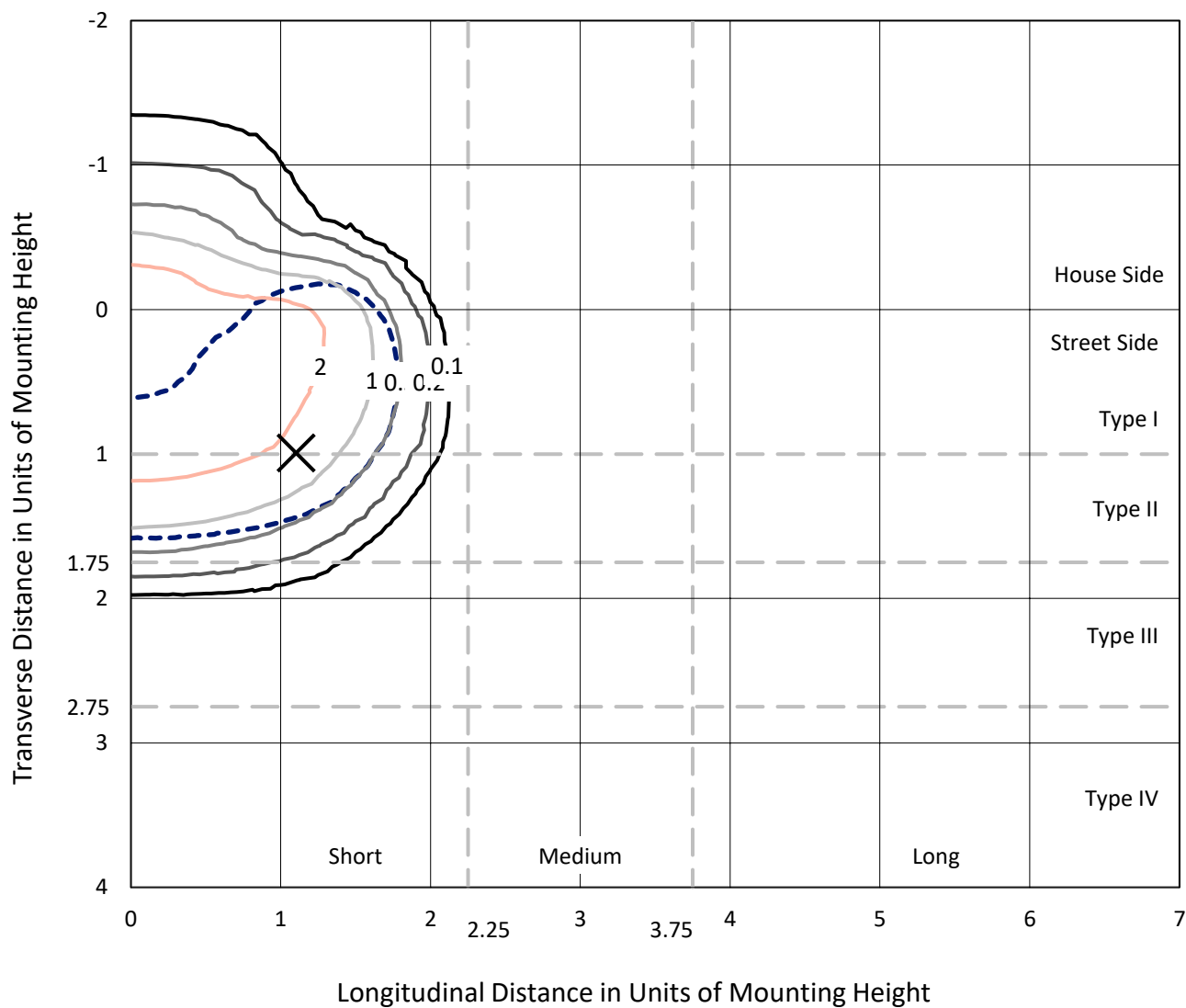
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

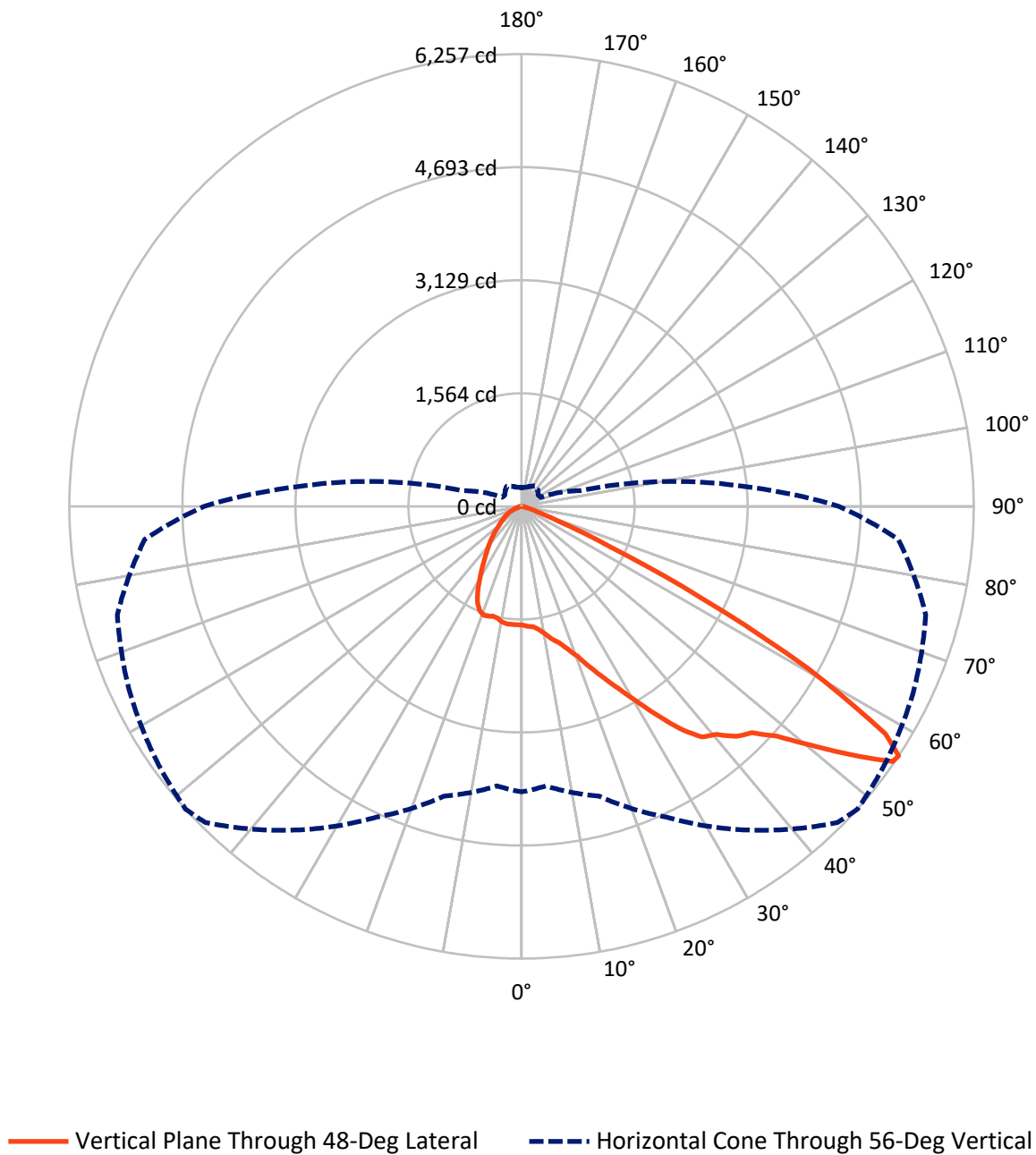
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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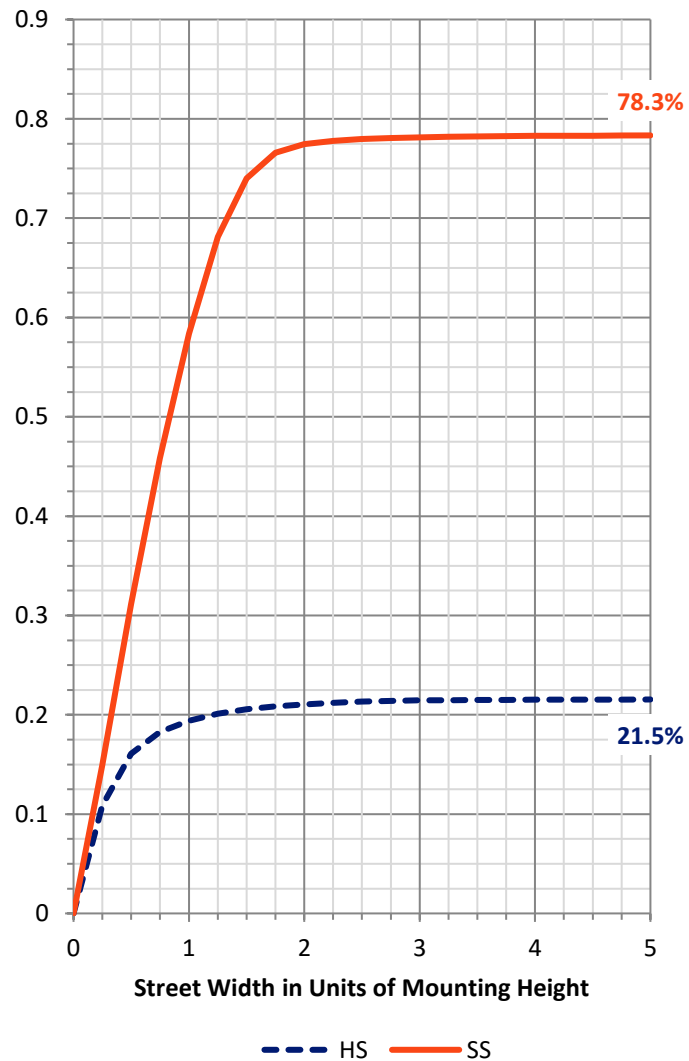
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1867.1	0.0	1867.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6717.9	0.0	6717.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	8585.0	0.0	8585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	1.9
10°-20°	510.5	5.9
20°-30°	925.9	10.8
30°-40°	1454.4	16.9
40°-50°	2121.7	24.7
50°-60°	2556.2	29.8
60°-70°	748.4	8.7
70°-80°	94.9	1.1
80°-90°	13.3	0.2
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°	8585.0	100.0
0°-180°	8585.0	100.0

Coefficient of Utilization



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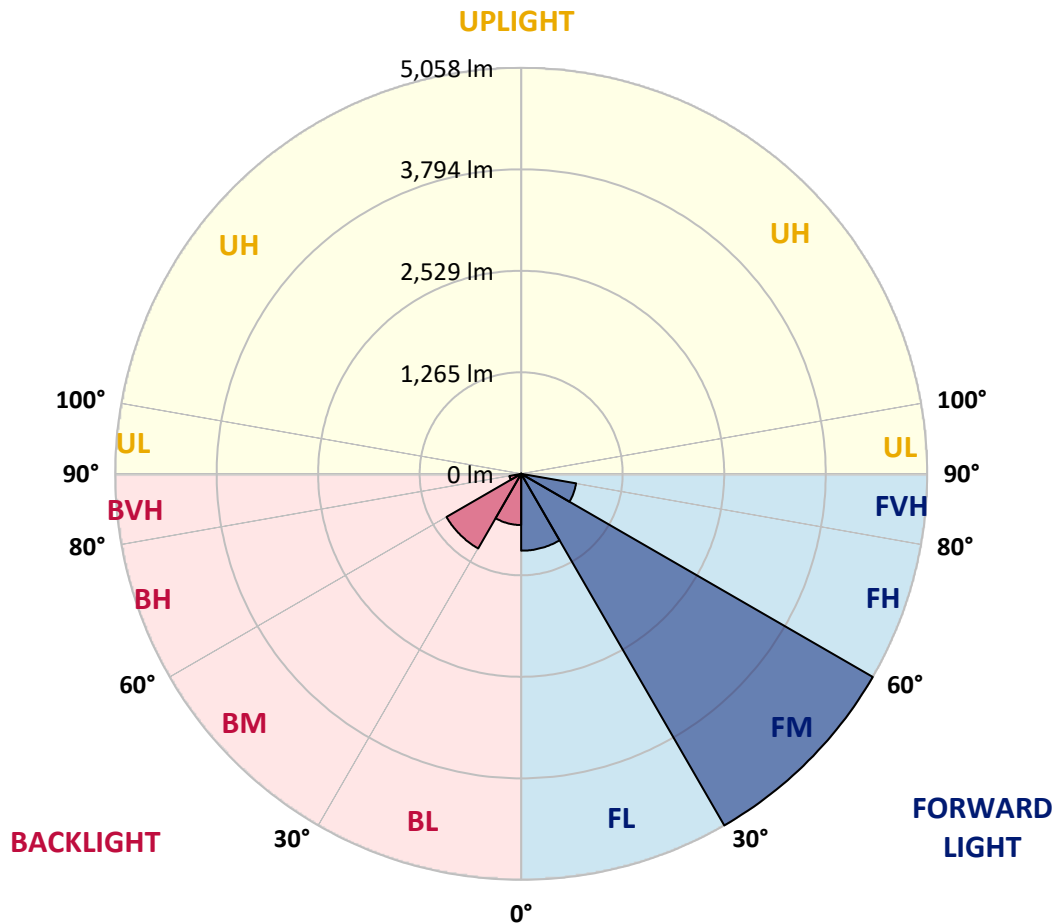
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.9	11.2			
FM	(30°-60°)	5058.3	58.9			
FH	(60°-80°)	695.0	8.1			G1/1800
FVH	(80°-90°)	6.7	0.1			G0/10
BL	(0°-30°)	638.2	7.4	B2/1000		
BM	(30°-60°)	1073.9	12.5	B2/2500		
BH	(60°-80°)	148.4	1.7	B1/500		G1/500
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7
2.5°	1669.4	1661.6	1661.6	1649.1	1663.2	1656.9	1661.6	1646.0	1661.6	1638.2	1656.9
5°	1677.3	1678.8	1672.6	1680.4	1680.4	1689.8	1674.1	1688.2	1696.0	1678.8	1671.0
7.5°	1717.9	1721.0	1719.5	1713.2	1725.7	1724.1	1722.6	1711.6	1714.8	1708.5	1699.1
10°	1797.6	1796.1	1803.9	1788.2	1778.9	1789.8	1792.9	1775.7	1763.2	1758.5	1728.8
12.5°	1913.3	1894.5	1883.6	1868.0	1872.6	1857.0	1885.2	1855.5	1849.2	1821.1	1791.4
15°	2007.1	2004.0	2005.5	1980.5	1952.4	1958.6	1958.6	1943.0	1933.6	1899.2	1857.0
17.5°	2199.3	2133.7	2147.8	2116.5	2093.1	2091.5	2077.4	2080.5	2055.5	1983.6	1919.5
20°	2349.4	2321.3	2299.4	2246.2	2210.3	2221.2	2215.0	2199.3	2191.5	2097.7	2007.1
22.5°	2483.8	2493.2	2457.3	2443.2	2393.2	2397.9	2410.4	2396.3	2336.9	2240.0	2105.6
25°	2673.0	2662.0	2613.6	2596.4	2549.5	2566.7	2615.1	2604.2	2566.7	2391.6	2182.1
27.5°	2896.5	2859.0	2868.4	2790.2	2744.9	2793.3	2851.2	2905.9	2799.6	2569.8	2272.8
30°	3054.4	3015.3	3012.2	3009.1	2998.1	3054.4	3121.6	3171.6	3085.6	2748.0	2422.9
32.5°	3132.5	3141.9	3168.5	3159.1	3254.5	3370.1	3440.5	3512.4	3404.5	3038.8	2621.4
35°	3340.4	3281.0	3340.4	3346.7	3445.2	3690.6	3779.7	3951.6	3925.1	3449.9	2863.7
37.5°	3462.4	3457.7	3465.5	3524.9	3620.2	3923.5	4050.1	4183.0	4133.0	3696.8	3165.4
40°	3664.0	3676.5	3675.0	3720.3	3825.0	4098.6	4150.1	4258.0	4262.7	4039.2	3609.3
42.5°	3987.6	3937.6	3904.7	3951.6	4098.6	4250.2	4353.4	4331.5	4486.2	4455.0	4179.8
45°	4278.3	4308.0	4259.6	4337.7	4390.9	4472.2	4469.0	4515.9	4712.9	4861.4	4609.7
47.5°	4550.3	4569.1	4592.5	4645.7	4761.3	4773.8	4747.3	4726.9	4998.9	5152.1	4942.7
50°	4712.9	4730.1	4839.5	4934.8	5150.6	5178.7	5194.3	5142.7	5327.2	5344.4	5256.9
52.5°	4669.1	4687.9	4841.1	5155.3	5499.1	5757.1	5710.2	5622.6	5611.7	5678.9	5547.6
55°	4281.5	4264.3	4475.3	4964.5	5608.6	6227.6	6233.8	6141.6	5965.0	5919.6	5503.8
56°	3951.6	3884.4	4153.3	4744.1	5467.9	6186.9	6257.3	6158.8	5993.1	5789.9	5233.4
57.5°	3237.3	3301.4	3568.7	4057.9	4981.7	5894.6	5935.3	5911.8	5786.8	5446.0	4605.0
60°	1785.1	1897.7	2133.7	2732.4	3546.8	4523.7	4556.6	4747.3	4770.7	4170.5	3168.5
62.5°	758.1	745.6	991.0	1431.8	2019.6	2730.8	2791.8	2987.2	3023.1	2404.1	1589.7
65°	307.9	325.1	448.6	720.6	1067.6	1244.3	1330.2	1394.3	1513.1	992.6	586.2
67.5°	203.2	201.6	264.2	411.1	575.2	554.9	554.9	586.2	542.4	404.9	253.2
70°	145.4	150.1	189.1	284.5	358.0	265.7	254.8	243.9	276.7	267.3	204.8
72.5°	95.4	101.6	126.6	170.4	186.0	145.4	145.4	175.1	228.2	215.7	167.3
75°	62.5	64.1	78.2	98.5	92.2	75.0	82.8	117.2	165.7	159.4	118.8
77.5°	42.2	43.8	53.1	64.1	51.6	42.2	45.3	59.4	81.3	81.3	62.5
80°	15.6	17.2	21.9	20.3	23.4	29.7	32.8	40.6	48.5	48.5	42.2
82.5°	0.0	1.6	4.7	10.9	17.2	23.4	26.6	31.3	36.0	40.6	39.1
85°	0.0	1.6	4.7	7.8	12.5	14.1	15.6	10.9	9.4	9.4	7.8
87.5°	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.1	1.6	1.6
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°	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7	1639.7
2.5°	1639.7	1638.2	1638.2	1633.5	1642.9	1638.2	1641.3	1639.7	1619.4	1635.0	1624.1
5°	1656.9	1667.9	1650.7	1647.6	1635.0	1639.7	1639.7	1624.1	1638.2	1636.6	1633.5
7.5°	1700.7	1681.9	1663.2	1644.4	1641.3	1636.6	1619.4	1613.2	1624.1	1611.6	1630.4
10°	1719.5	1722.6	1694.4	1669.4	1646.0	1613.2	1589.7	1575.6	1558.5	1577.2	1588.2
12.5°	1805.4	1774.2	1725.7	1686.6	1606.9	1574.1	1550.6	1544.4	1574.1	1580.3	1569.4
15°	1835.1	1830.4	1767.9	1680.4	1597.5	1558.5	1563.1	1550.6	1553.8	1538.1	1541.3
17.5°	1896.1	1842.9	1769.5	1660.1	1596.0	1586.6	1558.5	1508.4	1480.3	1467.8	1478.7
20°	1963.3	1911.7	1805.4	1667.9	1610.0	1585.0	1492.8	1431.8	1374.0	1342.7	1344.3
22.5°	2022.7	1958.6	1789.8	1671.0	1622.5	1519.4	1408.4	1288.0	1216.1	1167.7	1169.2
25°	2094.6	2004.0	1796.1	1677.3	1589.7	1414.6	1255.2	1138.0	1052.0	1019.2	1030.1
27.5°	2135.3	2032.1	1830.4	1691.3	1503.7	1266.1	1094.2	984.8	934.8	919.1	917.6
30°	2257.2	2094.6	1872.6	1663.2	1359.9	1106.7	947.3	880.1	831.6	817.5	820.7
32.5°	2438.5	2208.7	1927.4	1589.7	1213.0	964.5	851.9	801.9	756.6	730.0	726.9
35°	2590.1	2404.1	1985.2	1475.6	1042.6	855.0	784.7	722.2	653.4	623.7	615.9
37.5°	2879.3	2624.5	1972.7	1303.7	880.1	773.8	712.8	636.2	576.8	536.2	531.5
40°	3263.8	2882.4	1911.7	1094.2	759.7	701.9	636.2	562.7	489.3	454.9	451.7
42.5°	3731.2	3198.2	1800.7	881.6	639.3	629.9	570.5	486.1	420.5	395.5	397.0
45°	4111.1	3468.6	1688.2	708.1	550.2	559.6	508.0	428.3	383.0	362.6	362.6
47.5°	4448.7	3651.5	1566.3	584.6	467.4	489.3	443.9	397.0	358.0	342.3	339.2
50°	4773.8	3837.5	1444.3	473.6	398.6	420.5	415.8	378.3	347.0	328.3	329.8
52.5°	4977.1	3867.2	1289.6	387.7	348.6	373.6	389.2	354.8	320.4	309.5	306.4
55°	4728.5	3484.2	1000.4	318.9	295.4	328.3	358.0	318.9	292.3	273.6	272.0
56°	4394.0	3115.3	836.3	293.9	279.8	315.8	347.0	304.8	275.1	264.2	256.4
57.5°	3720.3	2549.5	617.4	261.0	259.5	293.9	329.8	290.7	256.4	247.0	247.0
60°	2319.7	1435.0	373.6	218.8	225.1	261.0	297.0	259.5	228.2	228.2	232.9
62.5°	1056.7	597.1	226.7	186.0	193.8	225.1	264.2	234.5	217.3	234.5	237.6
65°	359.5	257.9	164.1	148.5	153.2	186.0	226.7	237.6	236.0	247.0	253.2
67.5°	201.6	165.7	137.6	123.5	120.4	137.6	186.0	237.6	228.2	223.5	226.7
70°	170.4	140.7	121.9	109.4	104.7	111.0	143.8	179.8	161.0	156.3	153.2
72.5°	137.6	117.2	106.3	98.5	84.4	71.9	65.7	68.8	76.6	81.3	89.1
75°	96.9	89.1	89.1	79.7	61.0	45.3	36.0	29.7	20.3	14.1	15.6
77.5°	54.7	54.7	56.3	48.5	39.1	29.7	21.9	15.6	7.8	3.1	1.6
80°	37.5	40.6	43.8	39.1	32.8	26.6	18.8	10.9	4.7	0.0	0.0
82.5°	37.5	42.2	45.3	39.1	32.8	25.0	18.8	10.9	4.7	1.6	0.0
85°	7.8	9.4	10.9	12.5	18.8	18.8	14.1	9.4	4.7	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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)