

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: P941436

Luminaire Tested: **GALN-SB5A-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14681 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 141.7
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

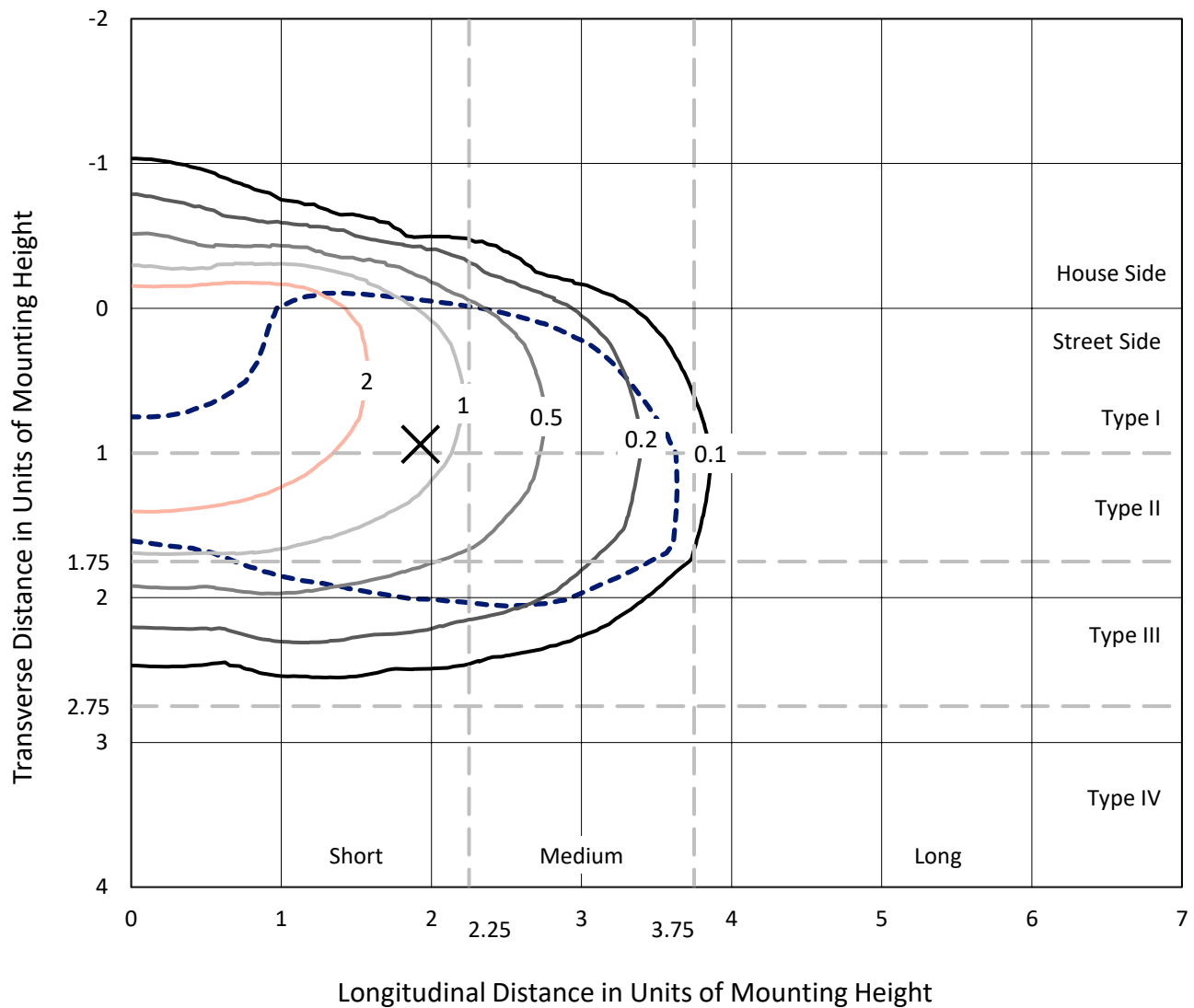


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

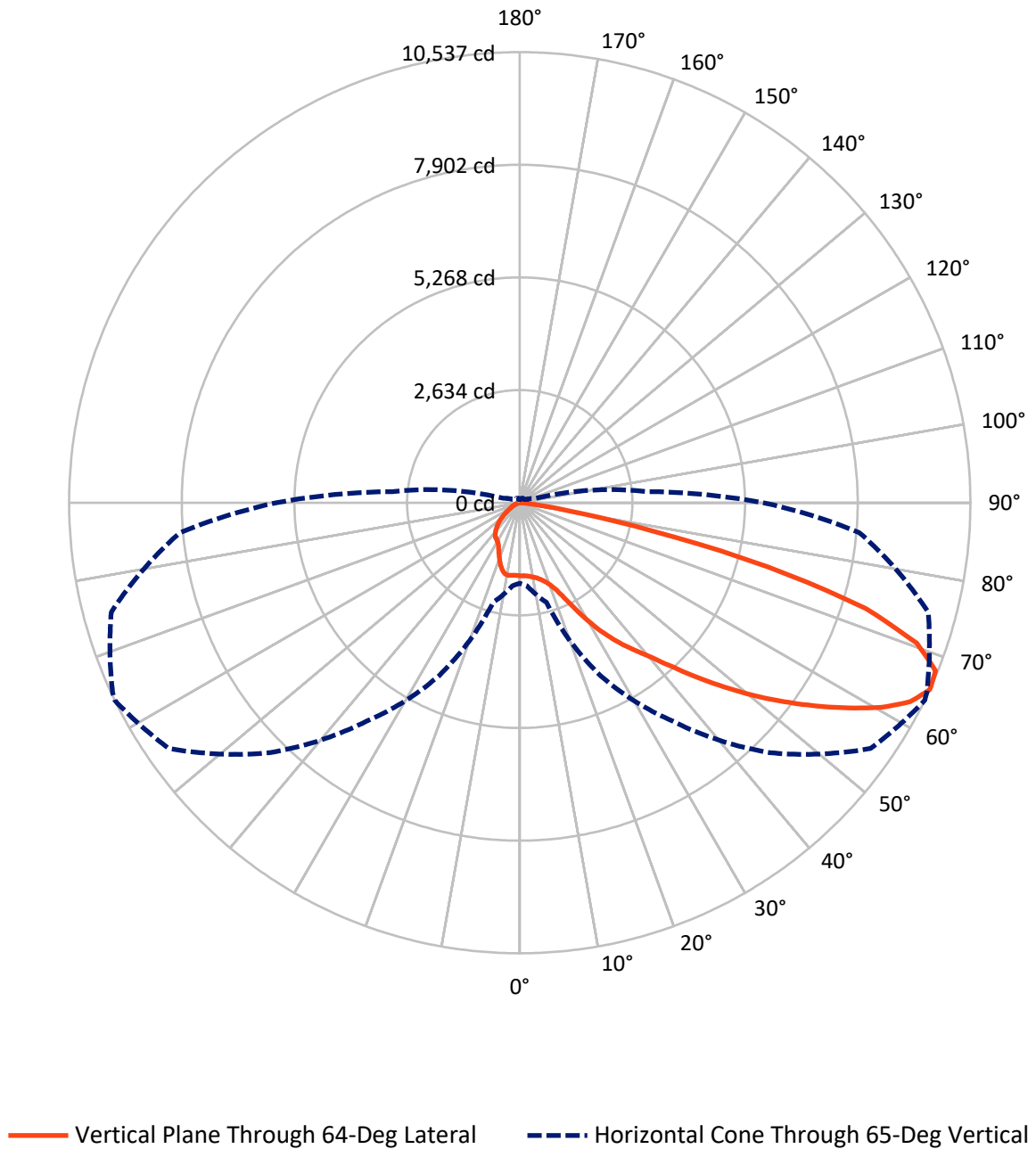


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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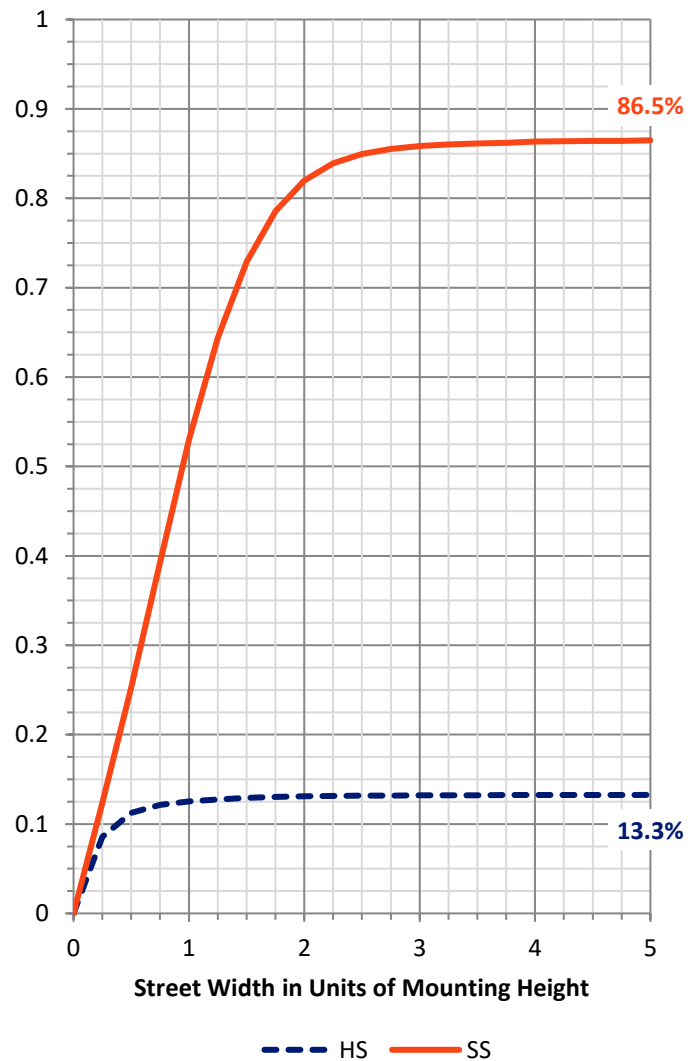
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1963.3	0.0	1963.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12717.7	0.0	12717.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	14681.0	0.0	14681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.1
10°-20°	427.3	2.9
20°-30°	809.7	5.5
30°-40°	1638.4	11.2
40°-50°	2791.0	19.0
50°-60°	3795.6	25.9
60°-70°	3564.3	24.3
70°-80°	1428.0	9.7
80°-90°	69.2	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°	14681.0	100.0
0°-180°	14681.0	100.0

Coefficient of Utilization



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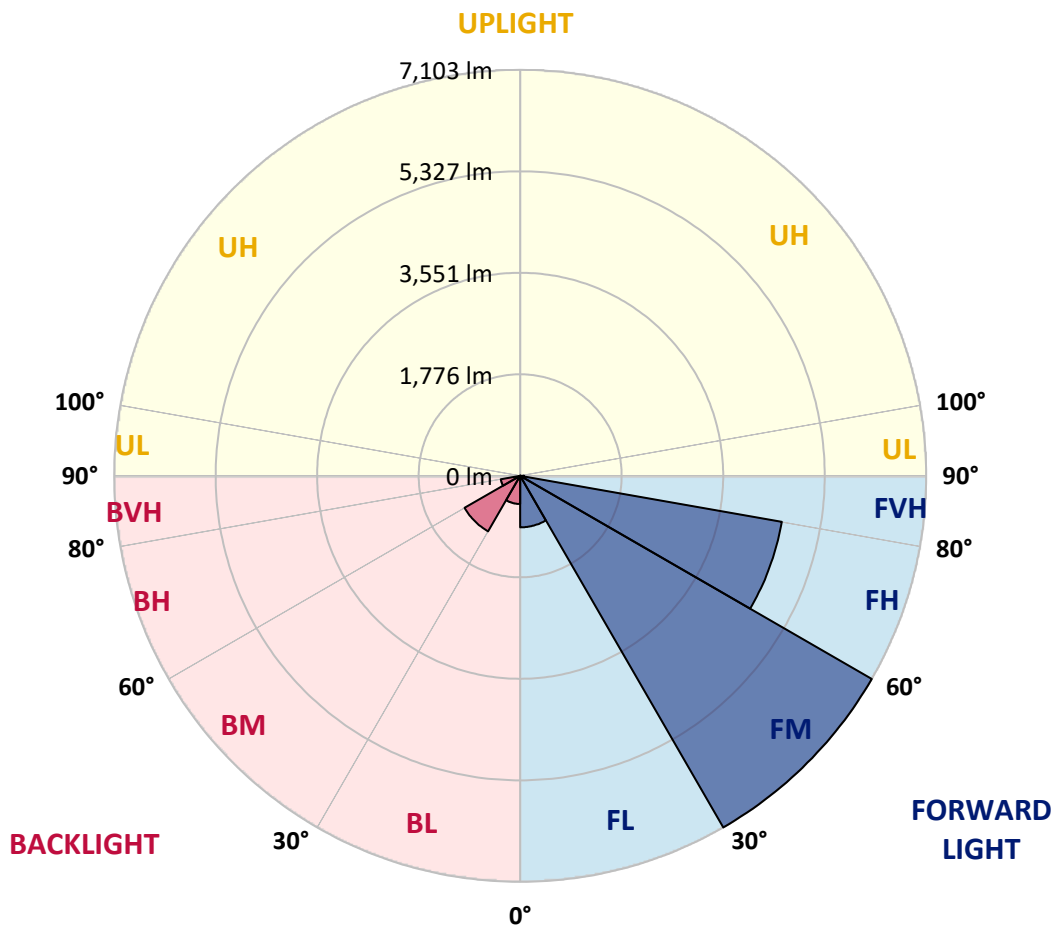
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	901.6	6.1			
FM	(30°-60°)	7102.7	48.4			
FH	(60°-80°)	4647.7	31.7			G2/5000
FVH	(80°-90°)	65.8	0.4			G1/100
BL	(0°-30°)	492.9	3.4	B1/500		
BM	(30°-60°)	1122.4	7.6	B2/2500		
BH	(60°-80°)	344.6	2.3	B1/500		G1/500
BVH	(80°-90°)	3.4	0.0			G0/10
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°	64°	65°	75°	85°
0°	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6
2.5°	1701.6	1713.5	1710.5	1707.6	1706.6	1708.5	1709.5	1708.5	1708.5	1708.5	1709.5
5°	1669.2	1679.0	1679.0	1685.9	1695.7	1707.6	1716.4	1718.4	1720.3	1723.3	1722.3
7.5°	1607.2	1615.0	1620.9	1643.6	1668.2	1699.7	1726.3	1740.0	1742.0	1752.8	1756.8
10°	1564.8	1574.7	1584.5	1608.2	1643.6	1690.8	1736.1	1769.6	1774.5	1800.1	1811.9
12.5°	1562.9	1572.7	1585.5	1611.1	1652.4	1702.6	1757.7	1806.0	1814.8	1852.2	1876.8
15°	1583.5	1595.4	1607.2	1638.7	1682.9	1744.0	1803.0	1863.1	1871.9	1925.1	1951.6
17.5°	1625.9	1641.6	1650.5	1682.0	1729.2	1797.1	1874.9	1943.8	1951.6	2013.6	2047.1
20°	1709.5	1728.2	1731.2	1756.8	1803.0	1875.8	1968.4	2054.0	2063.8	2134.7	2172.1
22.5°	1882.7	1909.3	1885.7	1898.5	1939.8	2012.6	2113.0	2221.3	2235.1	2315.8	2349.2
25°	2187.8	2225.2	2164.2	2142.6	2160.3	2236.1	2362.0	2498.8	2514.6	2579.5	2596.3
27.5°	2787.2	2739.0	2646.5	2555.9	2502.8	2546.1	2687.8	2857.1	2876.8	2939.7	2920.1
30°	3445.6	3403.3	3278.3	3077.5	2951.6	2944.7	3075.6	3264.5	3287.2	3347.2	3287.2
32.5°	4105.0	4064.7	3928.8	3681.8	3463.3	3355.1	3445.6	3655.2	3667.1	3705.4	3616.9
35°	4753.6	4712.3	4576.4	4323.5	4054.8	3808.8	3791.1	4027.3	4031.2	4071.6	3939.7
37.5°	5406.1	5371.7	5227.0	4979.0	4714.2	4374.7	4210.3	4379.6	4384.5	4423.9	4287.1
40°	5871.6	5886.4	5787.0	5595.1	5367.7	4996.7	4680.8	4754.6	4725.0	4791.0	4709.3
42.5°	6271.2	6300.7	6214.1	6117.7	5985.8	5659.0	5263.4	5250.6	5203.4	5238.8	5154.2
45°	6616.6	6641.2	6563.5	6540.9	6537.9	6308.6	5900.2	5823.4	5757.5	5750.6	5649.2
47.5°	6743.6	6790.8	6824.3	6900.1	7047.7	6951.3	6558.6	6439.5	6365.7	6311.5	6151.1
50°	6791.8	6842.0	6956.2	7176.6	7526.0	7567.4	7214.0	7080.2	6989.6	6891.2	6655.0
52.5°	6726.9	6816.4	6970.0	7341.0	7847.9	8061.4	7842.9	7725.8	7622.5	7462.1	7111.7
55°	6344.0	6433.6	6747.5	7339.0	8008.3	8407.9	8437.4	8385.2	8269.1	8016.1	7480.8
57.5°	5537.0	5669.9	6166.9	7089.1	8005.3	8706.1	9020.0	9057.4	8927.5	8565.3	7771.1
60°	4419.0	4599.1	5205.3	6535.0	7758.3	8867.5	9530.8	9717.8	9580.0	9106.6	8006.3
62.5°	3083.4	3292.1	3865.9	5666.9	7193.4	8751.3	9903.8	10249.3	10144.9	9590.8	8096.9
65°	1880.8	1947.7	2410.3	4459.3	6232.8	8265.1	10019.0	10536.6	10502.2	9887.1	7963.0
67.5°	1252.9	1309.0	1441.8	3057.8	4838.2	7293.8	9743.4	10486.4	10496.3	9838.9	7472.9
70°	754.9	803.1	889.7	1778.4	3135.6	5773.2	8890.1	9846.7	9903.8	9194.2	6543.8
72.5°	311.0	343.5	422.2	806.0	1623.9	3664.1	7079.2	8454.1	8587.0	7730.7	5022.3
75°	176.2	192.9	248.0	404.5	704.7	1707.6	4288.1	6001.5	6197.4	5328.4	3021.4
77.5°	117.1	125.0	160.4	261.8	396.6	582.6	1832.5	3126.7	3500.7	2910.2	1308.0
80°	78.7	85.6	110.2	175.2	257.9	250.0	583.6	1158.4	1425.1	999.9	318.9
82.5°	53.1	54.1	78.7	115.1	163.4	121.1	172.2	360.2	452.7	289.3	121.1
85°	30.5	29.5	58.1	66.9	72.8	50.2	52.2	108.3	141.7	122.0	68.9
87.5°	3.9	5.9	22.6	17.7	9.8	10.8	10.8	18.7	27.6	29.5	14.8
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°	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6	1707.6
2.5°	1709.5	1708.5	1705.6	1702.6	1695.7	1691.8	1693.8	1691.8	1690.8	1691.8	1695.7
5°	1722.3	1719.4	1711.5	1701.6	1687.9	1671.1	1660.3	1644.6	1629.8	1620.9	1622.9
7.5°	1756.8	1753.8	1743.0	1715.4	1671.1	1601.3	1537.3	1481.2	1438.9	1414.3	1415.3
10°	1811.9	1807.0	1790.2	1729.2	1613.1	1460.5	1333.6	1228.3	1159.4	1126.9	1123.9
12.5°	1876.8	1870.9	1841.4	1716.4	1502.8	1264.7	1089.5	972.4	908.4	879.9	876.9
15°	1953.6	1945.7	1887.7	1655.4	1342.4	1048.2	887.7	800.1	758.8	733.2	734.2
17.5°	2049.1	2035.3	1922.1	1563.9	1168.2	882.8	763.7	697.8	661.4	636.8	634.8
20°	2173.1	2150.4	1949.7	1454.6	1007.8	778.5	680.1	625.0	597.4	575.7	571.8
22.5°	2346.3	2313.8	1983.1	1336.5	894.6	706.6	618.1	577.7	555.1	530.5	526.5
25°	2560.8	2522.5	2024.5	1227.3	816.9	644.6	572.8	539.3	512.8	484.2	481.3
27.5°	2861.0	2792.1	2073.7	1137.7	749.9	591.5	531.5	494.1	463.5	439.9	435.0
30°	3195.6	3082.5	2117.0	1083.6	688.9	542.3	477.3	439.9	411.4	394.7	391.7
32.5°	3512.5	3359.0	2145.5	1060.0	633.8	486.2	418.3	377.9	356.3	351.4	354.3
35°	3811.7	3609.0	2142.6	1037.3	584.6	430.1	360.2	318.9	302.1	305.1	305.1
37.5°	4156.2	3875.7	2121.9	1001.9	544.3	378.9	310.0	273.6	258.8	259.8	263.8
40°	4556.8	4183.8	2109.1	935.0	500.0	331.7	268.7	239.2	228.3	224.4	223.4
42.5°	4983.9	4482.0	2111.1	859.2	444.8	289.3	240.1	215.5	205.7	202.7	201.8
45°	5413.0	4766.4	2114.0	780.5	386.8	256.9	219.5	198.8	192.9	189.0	189.0
47.5°	5816.5	5008.5	2058.9	695.8	329.7	232.3	202.7	189.0	184.0	179.1	179.1
50°	6192.5	5169.9	1926.0	597.4	284.4	212.6	189.9	180.1	175.2	170.3	170.3
52.5°	6484.8	5195.5	1706.6	496.0	252.9	197.8	182.1	173.2	167.3	162.4	161.4
55°	6614.7	5035.1	1394.6	401.5	228.3	185.0	174.2	165.3	158.5	153.5	152.5
57.5°	6581.2	4697.5	1087.5	322.8	204.7	172.2	164.4	158.5	150.6	142.7	141.7
60°	6416.9	4245.8	819.8	268.7	183.1	158.5	153.5	148.6	137.8	126.0	124.0
62.5°	6132.4	3677.9	584.6	222.4	159.4	142.7	140.7	136.8	121.1	99.4	97.4
65°	5697.4	2988.0	393.7	185.0	136.8	125.0	126.0	119.1	98.4	73.8	71.8
67.5°	5061.6	2184.9	252.0	151.6	114.2	104.3	105.3	101.4	83.7	63.0	60.0
70°	4251.7	1446.7	164.4	115.1	91.5	80.7	86.6	87.6	70.9	51.2	49.2
72.5°	3116.9	854.3	115.1	85.6	66.9	56.1	70.9	72.8	57.1	38.4	36.4
75°	1776.4	405.5	86.6	62.0	41.3	39.4	55.1	55.1	39.4	25.6	23.6
77.5°	746.0	169.3	61.0	40.4	23.6	22.6	37.4	34.4	19.7	11.8	11.8
80°	215.5	75.8	32.5	19.7	9.8	8.9	14.8	10.8	4.9	2.0	2.0
82.5°	84.6	33.5	12.8	7.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0
85°	50.2	13.8	5.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	3.0	2.0	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)