

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: P940426

Luminaire Tested: **GALN-SB3C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940426
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-SB3C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 16346 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 149.1
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

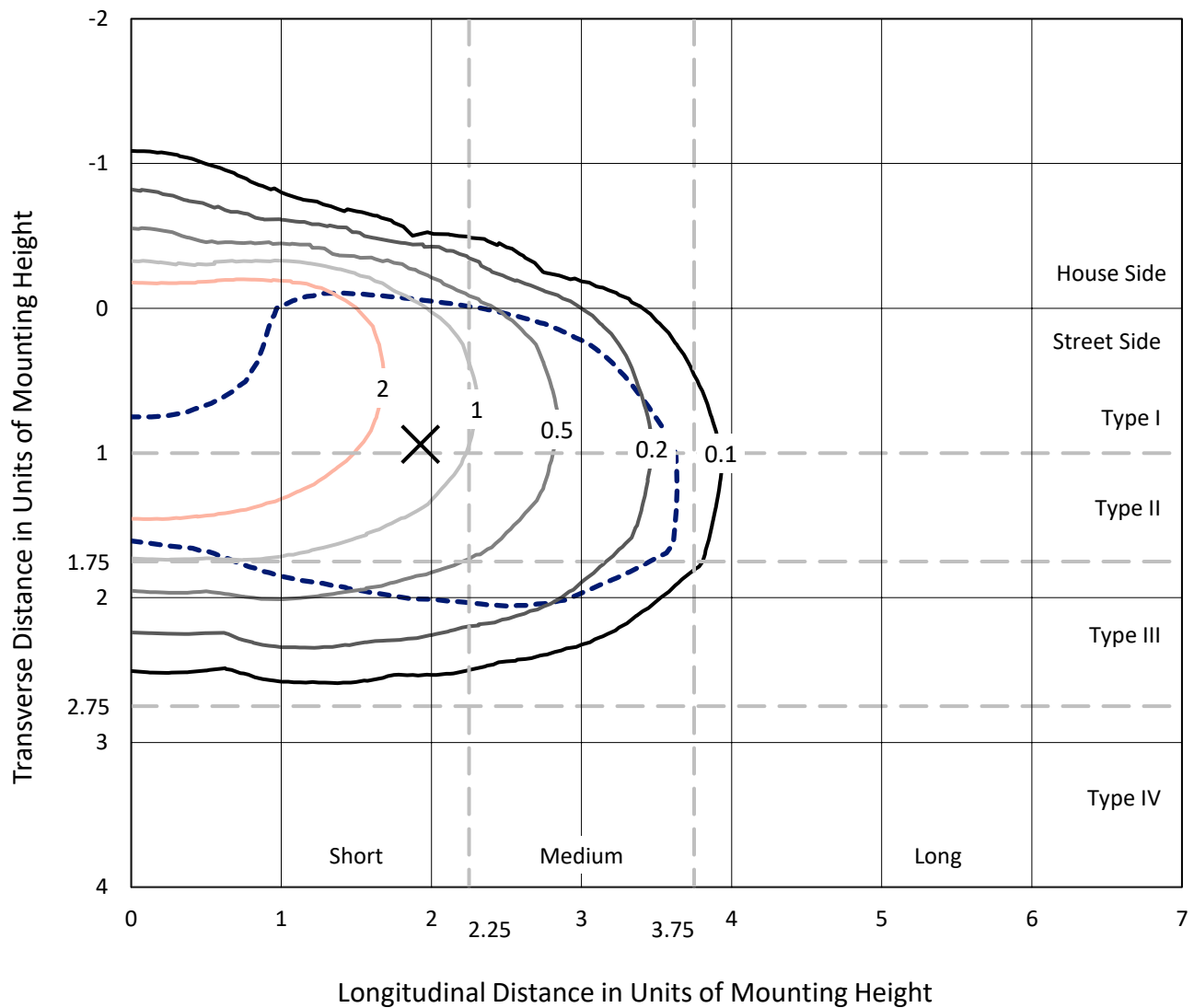


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

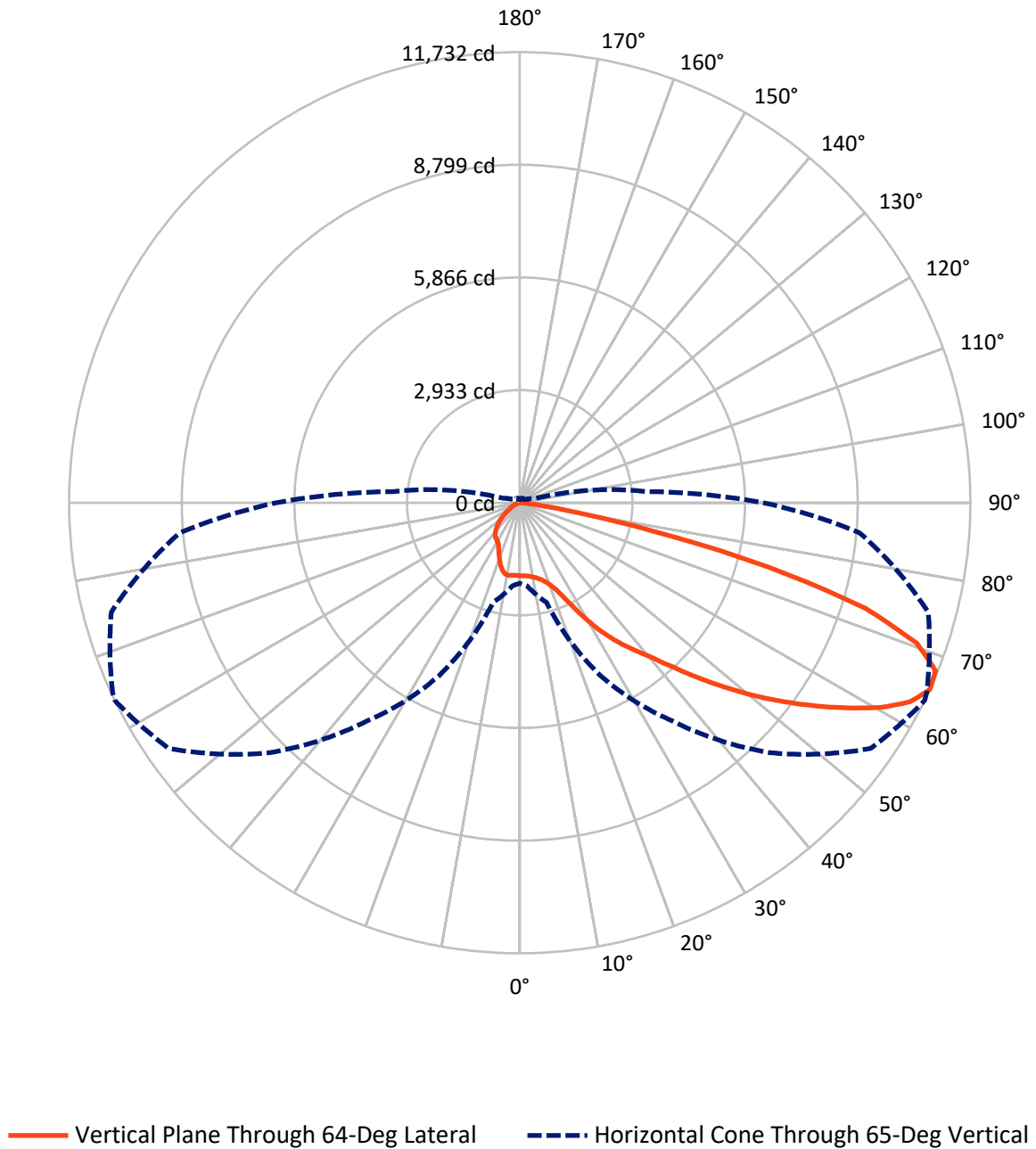


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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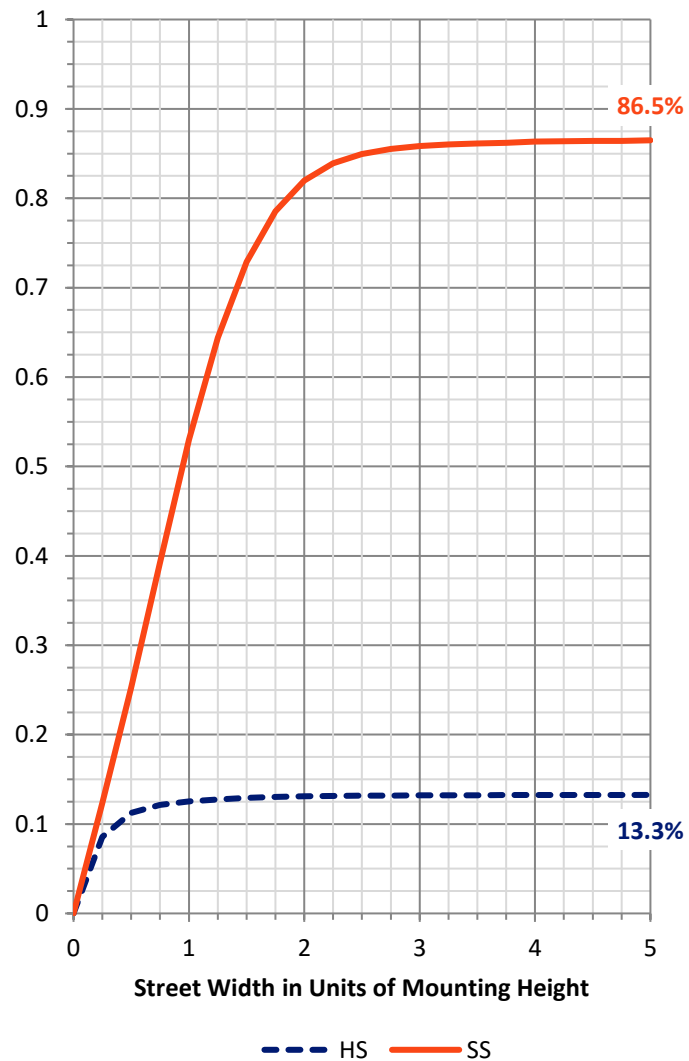
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2186.0	0.0	2186.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14160.1	0.0	14160.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	16346.0	0.0	16346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	1.1
10°-20°	475.8	2.9
20°-30°	901.5	5.5
30°-40°	1824.2	11.2
40°-50°	3107.6	19.0
50°-60°	4226.1	25.9
60°-70°	3968.5	24.3
70°-80°	1590.0	9.7
80°-90°	77.0	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°	16346.0	100.0
0°-180°	16346.0	100.0

Coefficient of Utilization



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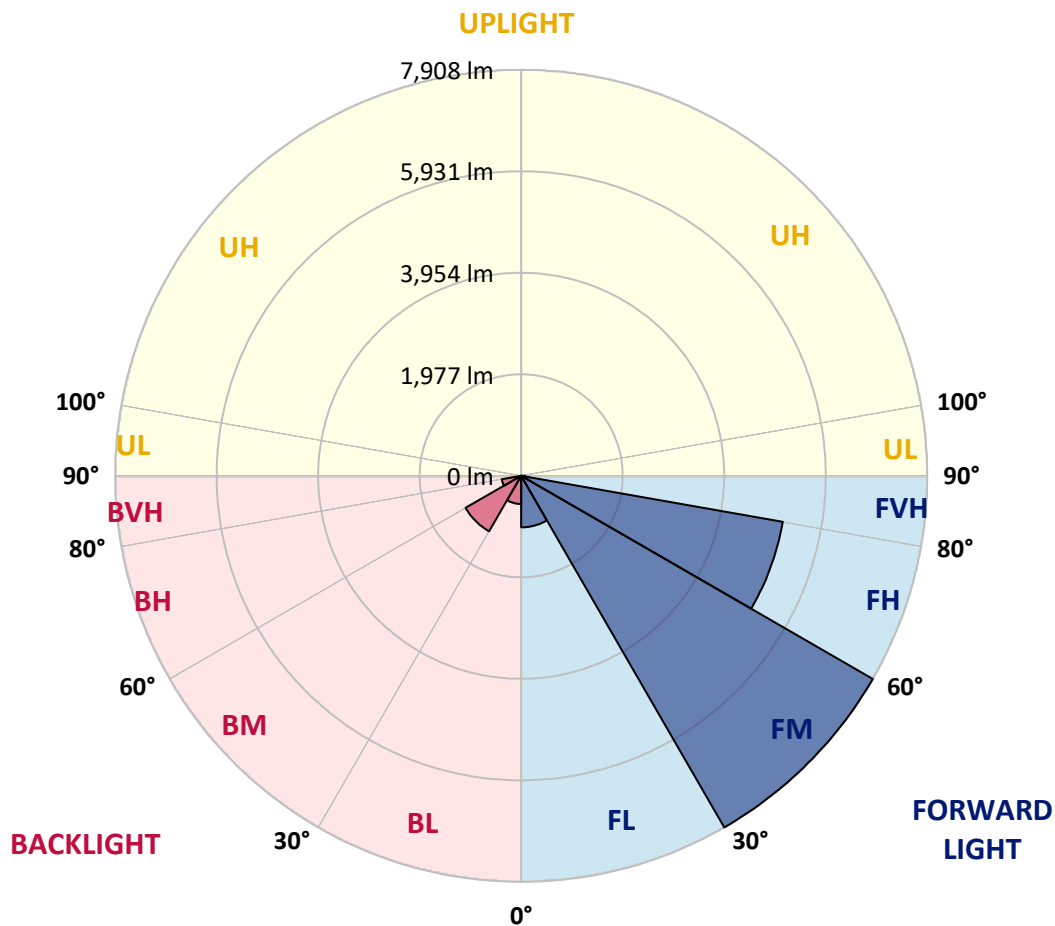
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1003.8	6.1			
FM	(30°-60°)	7908.2	48.4			
FH	(60°-80°)	5174.8	31.7			G3/7500
FVH	(80°-90°)	73.3	0.4			G1/100
BL	(0°-30°)	548.8	3.4	B2/1000		
BM	(30°-60°)	1249.7	7.6	B2/2500		
BH	(60°-80°)	383.7	2.3	B1/500		G1/500
BVH	(80°-90°)	3.8	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	1894.6	1907.8	1904.5	1901.2	1900.1	1902.3	1903.4	1902.3	1902.3	1902.3	1903.4
5°	1858.5	1869.4	1869.4	1877.1	1888.1	1901.2	1911.1	1913.3	1915.5	1918.7	1917.6
7.5°	1789.4	1798.2	1804.8	1830.0	1857.4	1892.4	1922.0	1937.4	1939.6	1951.6	1956.0
10°	1742.3	1753.3	1764.2	1790.5	1830.0	1882.6	1933.0	1970.2	1975.7	2004.2	2017.4
12.5°	1740.1	1751.1	1765.3	1793.8	1839.8	1895.7	1957.1	2010.8	2020.7	2062.3	2089.7
15°	1763.1	1776.3	1789.4	1824.5	1873.8	1941.8	2007.5	2074.3	2084.2	2143.4	2173.0
17.5°	1810.3	1827.8	1837.7	1872.7	1925.3	2000.9	2087.5	2164.2	2173.0	2242.0	2279.3
20°	1903.4	1924.2	1927.5	1956.0	2007.5	2088.6	2191.6	2286.9	2297.9	2376.8	2418.4
22.5°	2096.3	2125.8	2099.5	2113.8	2159.8	2240.9	2352.7	2473.2	2488.6	2578.4	2615.7
25°	2436.0	2477.6	2409.7	2385.6	2405.3	2489.7	2629.9	2782.2	2799.8	2872.1	2890.7
27.5°	3103.3	3049.6	2946.6	2845.8	2786.6	2834.8	2992.6	3181.1	3203.0	3273.1	3251.2
30°	3836.4	3789.3	3650.1	3426.6	3286.3	3278.6	3424.4	3634.8	3660.0	3726.8	3660.0
32.5°	4570.6	4525.6	4374.4	4099.4	3856.1	3735.6	3836.4	4069.8	4082.9	4125.7	4027.1
35°	5292.7	5246.7	5095.5	4813.8	4514.7	4240.7	4221.0	4484.0	4488.4	4533.3	4386.5
37.5°	6019.2	5980.9	5819.8	5543.6	5248.9	4870.8	4687.8	4876.3	4881.8	4925.6	4773.3
40°	6537.5	6554.0	6443.3	6229.6	5976.5	5563.4	5211.6	5293.8	5260.9	5334.3	5243.4
42.5°	6982.4	7015.3	6918.9	6811.5	6664.6	6300.8	5860.3	5846.1	5793.5	5832.9	5738.7
45°	7367.0	7394.4	7307.9	7282.7	7279.4	7024.1	6569.3	6483.8	6410.4	6402.7	6289.9
47.5°	7508.4	7561.0	7598.3	7682.6	7847.0	7739.6	7302.4	7169.8	7087.6	7027.4	6848.7
50°	7562.1	7618.0	7745.1	7990.6	8379.6	8425.6	8032.2	7883.2	7782.4	7672.8	7409.8
52.5°	7489.8	7589.5	7760.4	8173.6	8737.9	8975.7	8732.4	8602.0	8487.0	8308.3	7918.2
55°	7063.5	7163.2	7512.8	8171.4	8916.5	9361.4	9394.3	9336.2	9206.9	8925.3	8329.2
57.5°	6165.0	6312.9	6866.3	7893.0	8913.2	9693.4	10043.0	10084.6	9940.0	9536.7	8652.4
60°	4920.1	5120.7	5795.7	7276.1	8638.2	9873.1	10611.7	10819.9	10666.5	10139.4	8914.3
62.5°	3433.1	3665.4	4304.3	6309.6	8009.2	9743.8	11027.0	11411.6	11295.5	10678.6	9015.1
65°	2094.1	2168.6	2683.6	4965.1	6939.7	9202.5	11155.2	11731.6	11693.3	11008.4	8866.1
67.5°	1395.0	1457.4	1605.3	3404.6	5386.9	8121.0	10848.4	11675.7	11686.7	10954.7	8320.4
70°	840.5	894.2	990.6	1980.1	3491.2	6428.0	9898.3	10963.5	11027.0	10236.9	7286.0
72.5°	346.3	382.4	470.1	897.5	1808.1	4079.7	7882.1	9412.9	9560.8	8607.5	5591.9
75°	196.1	214.8	276.1	450.4	784.6	1901.2	4774.4	6682.2	6900.2	5932.7	3364.1
77.5°	130.4	139.2	178.6	291.5	441.6	648.7	2040.4	3481.4	3897.8	3240.3	1456.3
80°	87.7	95.3	122.7	195.1	287.1	278.3	649.8	1289.8	1586.7	1113.3	355.0
82.5°	59.2	60.3	87.7	128.2	181.9	134.8	191.8	401.1	504.1	322.2	134.8
85°	34.0	32.9	64.7	74.5	81.1	55.9	58.1	120.5	157.8	135.9	76.7
87.5°	4.4	6.6	25.2	19.7	11.0	12.1	12.1	20.8	30.7	32.9	16.4
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°	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2	1901.2
2.5°	1903.4	1902.3	1899.0	1895.7	1888.1	1883.7	1885.9	1883.7	1882.6	1883.7	1888.1
5°	1917.6	1914.4	1905.6	1894.6	1879.3	1860.7	1848.6	1831.1	1814.6	1804.8	1807.0
7.5°	1956.0	1952.7	1940.7	1910.0	1860.7	1782.9	1711.6	1649.2	1602.1	1574.7	1575.8
10°	2017.4	2011.9	1993.3	1925.3	1796.0	1626.2	1484.8	1367.6	1290.9	1254.7	1251.4
12.5°	2089.7	2083.1	2050.2	1911.1	1673.3	1408.1	1213.0	1082.6	1011.4	979.6	976.4
15°	2175.2	2166.4	2101.7	1843.1	1494.7	1167.0	988.4	890.9	844.9	816.4	817.5
17.5°	2281.5	2266.1	2140.1	1741.2	1300.7	982.9	850.3	776.9	736.4	709.0	706.8
20°	2419.5	2394.3	2170.8	1619.6	1122.1	866.8	757.2	695.8	665.1	641.0	636.7
22.5°	2612.4	2576.2	2208.0	1488.1	996.1	786.8	688.2	643.2	618.0	590.6	586.3
25°	2851.3	2808.5	2254.1	1366.5	909.5	717.7	637.8	600.5	570.9	539.1	535.8
27.5°	3185.5	3108.8	2308.8	1266.7	835.0	658.6	591.7	550.1	516.1	489.8	484.3
30°	3558.1	3432.0	2357.1	1206.5	767.1	603.8	531.5	489.8	458.0	439.4	436.1
32.5°	3910.9	3740.0	2388.8	1180.2	705.7	541.3	465.7	420.8	396.7	391.2	394.5
35°	4244.0	4018.3	2385.6	1155.0	650.9	478.9	401.1	355.0	336.4	339.7	339.7
37.5°	4627.6	4315.3	2362.5	1115.5	606.0	421.9	345.2	304.6	288.2	289.3	293.7
40°	5073.5	4658.2	2348.3	1041.0	556.7	369.3	299.2	266.3	254.2	249.8	248.7
42.5°	5549.1	4990.3	2350.5	956.6	495.3	322.2	267.4	240.0	229.0	225.7	224.6
45°	6026.9	5306.9	2353.8	869.0	430.6	286.0	244.4	221.4	214.8	210.4	210.4
47.5°	6476.2	5576.5	2292.4	774.7	367.1	258.6	225.7	210.4	204.9	199.4	199.4
50°	6894.8	5756.2	2144.5	665.1	316.7	236.7	211.5	200.5	195.1	189.6	189.6
52.5°	7220.2	5784.7	1900.1	552.3	281.6	220.3	202.7	192.9	186.3	180.8	179.7
55°	7364.9	5606.1	1552.7	447.1	254.2	206.0	194.0	184.1	176.4	170.9	169.8
57.5°	7327.6	5230.2	1210.9	359.4	227.9	191.8	183.0	176.4	167.7	158.9	157.8
60°	7144.6	4727.3	912.8	299.2	203.8	176.4	170.9	165.5	153.4	140.3	138.1
62.5°	6827.9	4095.0	650.9	247.7	177.5	158.9	156.7	152.3	134.8	110.7	108.5
65°	6343.6	3326.8	438.3	206.0	152.3	139.2	140.3	132.6	109.6	82.2	80.0
67.5°	5635.7	2432.7	280.5	168.8	127.1	116.2	117.3	112.9	93.1	70.1	66.8
70°	4733.8	1610.8	183.0	128.2	101.9	89.9	96.4	97.5	78.9	57.0	54.8
72.5°	3470.4	951.2	128.2	95.3	74.5	62.5	78.9	81.1	63.6	42.7	40.5
75°	1977.9	451.5	96.4	69.0	46.0	43.8	61.4	61.4	43.8	28.5	26.3
77.5°	830.6	188.5	67.9	44.9	26.3	25.2	41.6	38.4	21.9	13.1	13.1
80°	240.0	84.4	36.2	21.9	11.0	9.9	16.4	12.1	5.5	2.2	2.2
82.5°	94.2	37.3	14.2	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0
85°	55.9	15.3	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	3.3	2.2	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)