

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: P939906

Luminaire Tested: **GALN-SB2D-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939906
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-SB2D-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA 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: 13185 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

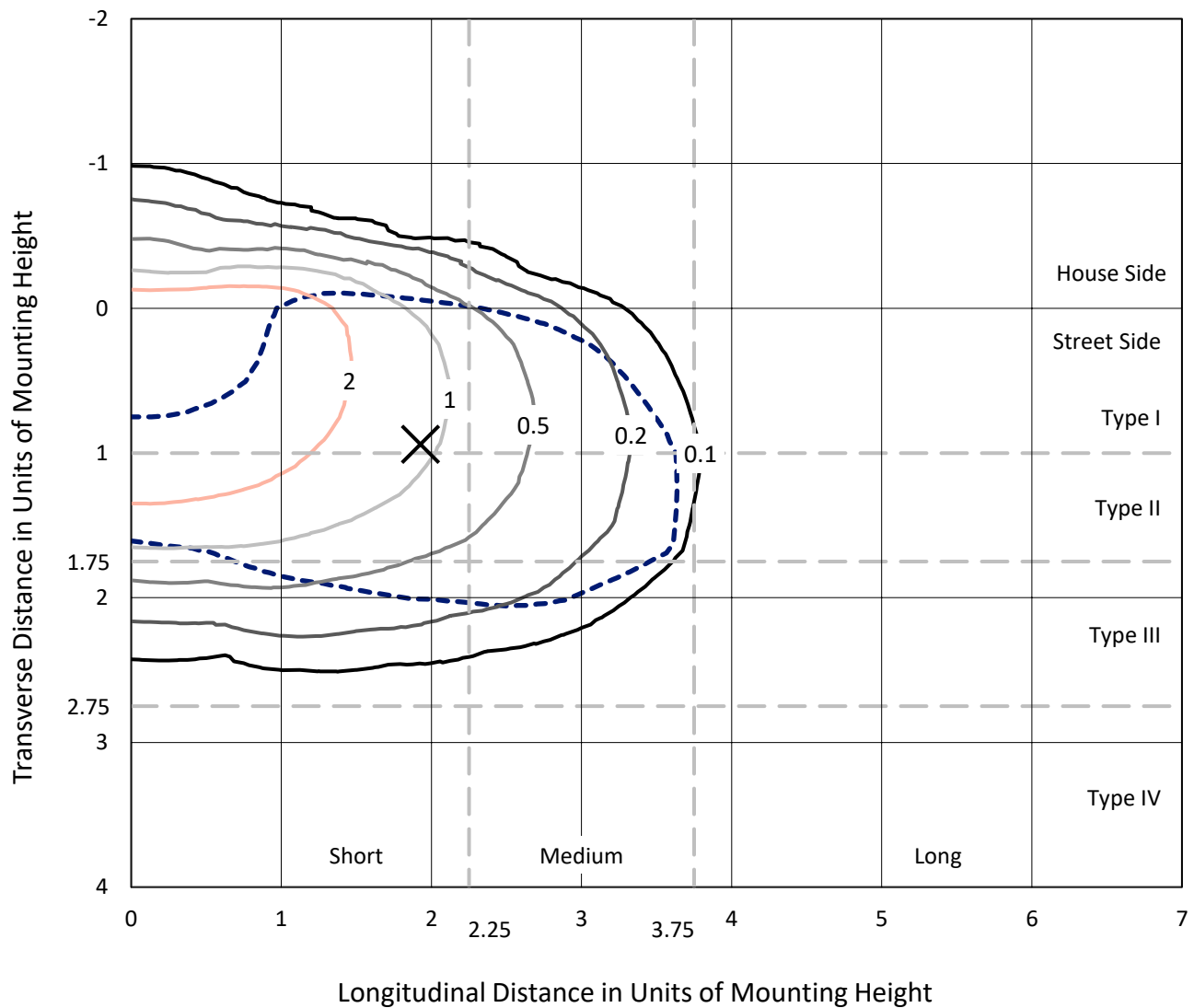


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

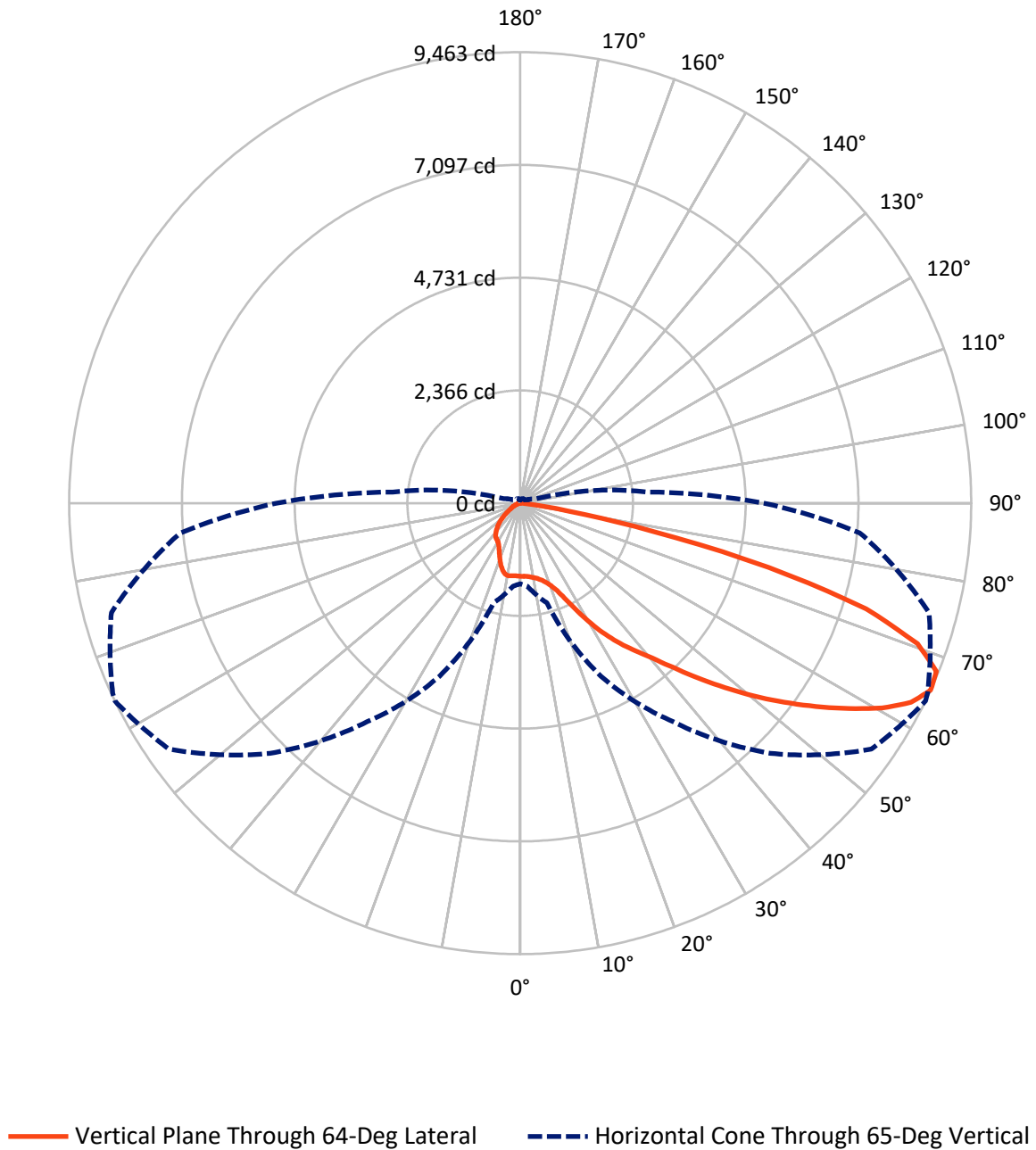


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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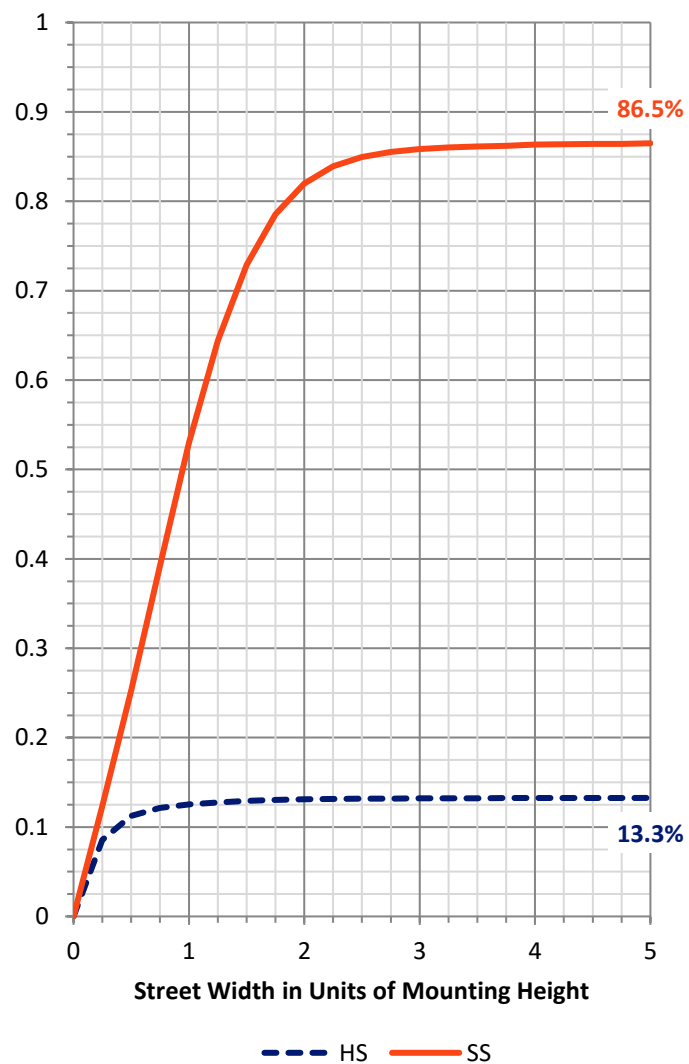
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1763.2	0.0	1763.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11421.8	0.0	11421.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	13185.0	0.0	13185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.1
10°-20°	383.8	2.9
20°-30°	727.2	5.5
30°-40°	1471.5	11.2
40°-50°	2506.6	19.0
50°-60°	3408.8	25.9
60°-70°	3201.1	24.3
70°-80°	1282.5	9.7
80°-90°	62.1	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°	13185.0	100.0
0°-180°	13185.0	100.0

Coefficient of Utilization



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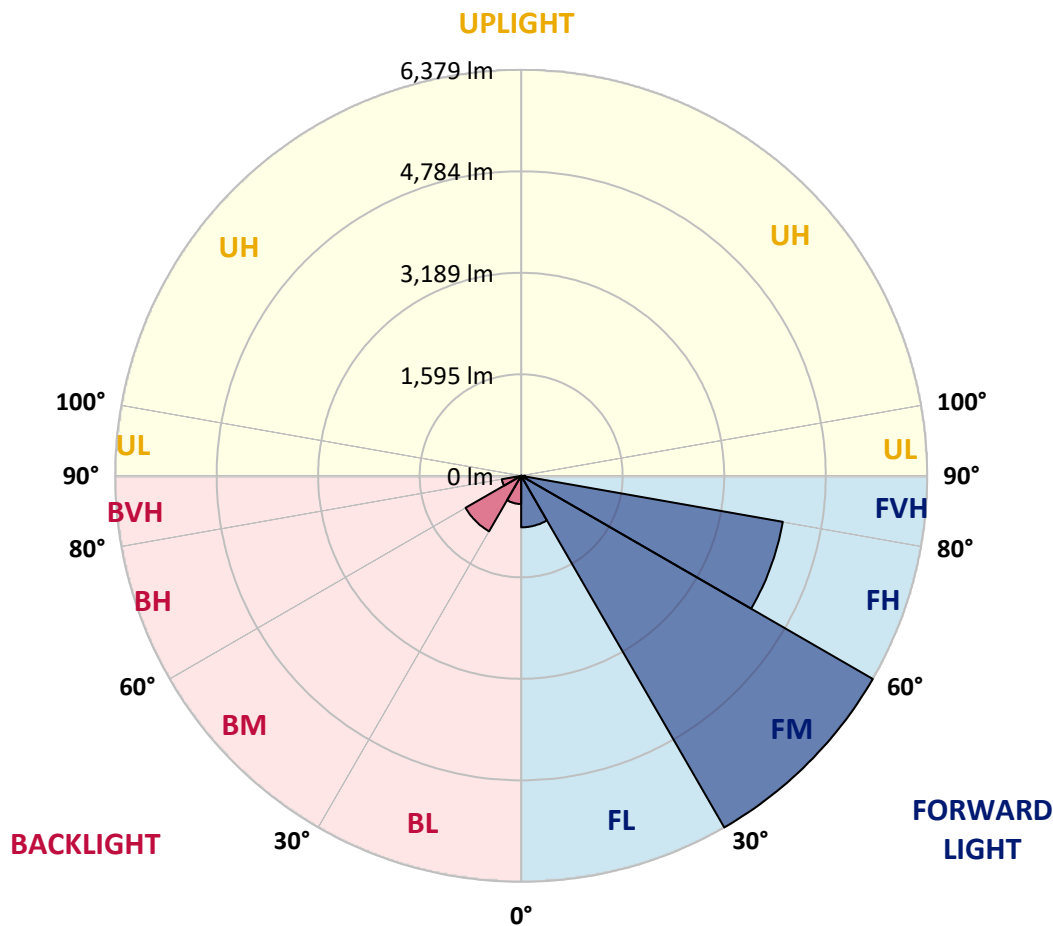
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.7	6.1			
FM	(30°-60°)	6378.9	48.4			
FH	(60°-80°)	4174.1	31.7			G2/5000
FVH	(80°-90°)	59.1	0.4			G1/100
BL	(0°-30°)	442.7	3.4	B1/500		
BM	(30°-60°)	1008.0	7.6	B2/2500		
BH	(60°-80°)	309.5	2.3	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6
2.5°	1528.2	1538.9	1536.2	1533.6	1532.7	1534.4	1535.3	1534.4	1534.4	1534.4	1535.3
5°	1499.1	1507.9	1507.9	1514.1	1522.9	1533.6	1541.5	1543.3	1545.0	1547.7	1546.8
7.5°	1443.4	1450.5	1455.8	1476.1	1498.2	1526.5	1550.3	1562.7	1564.5	1574.2	1577.7
10°	1405.4	1414.2	1423.1	1444.3	1476.1	1518.5	1559.2	1589.2	1593.7	1616.6	1627.2
12.5°	1403.6	1412.5	1423.9	1446.9	1484.1	1529.1	1578.6	1621.9	1629.9	1663.5	1685.6
15°	1422.2	1432.8	1443.4	1471.7	1511.5	1566.3	1619.3	1673.2	1681.2	1728.9	1752.8
17.5°	1460.2	1474.3	1482.3	1510.6	1553.0	1614.0	1683.8	1745.7	1752.8	1808.4	1838.5
20°	1535.3	1552.1	1554.8	1577.7	1619.3	1684.7	1767.8	1844.7	1853.5	1917.2	1950.7
22.5°	1690.9	1714.8	1693.5	1705.0	1742.2	1807.6	1897.7	1994.9	2007.3	2079.8	2109.8
25°	1964.9	1998.5	1943.7	1924.2	1940.1	2008.2	2121.3	2244.2	2258.3	2316.7	2331.7
27.5°	2503.2	2459.9	2376.8	2295.5	2247.7	2286.6	2413.9	2565.9	2583.6	2640.2	2622.5
30°	3094.5	3056.5	2944.2	2763.9	2650.8	2644.6	2762.2	2931.9	2952.2	3006.1	2952.2
32.5°	3686.7	3650.5	3528.5	3306.6	3110.4	3013.2	3094.5	3282.8	3293.4	3327.9	3248.3
35°	4269.2	4232.1	4110.1	3882.9	3641.6	3420.7	3404.8	3616.9	3620.4	3656.7	3538.2
37.5°	4855.2	4824.3	4694.3	4471.6	4233.8	3928.9	3781.3	3933.3	3937.7	3973.1	3850.2
40°	5273.3	5286.6	5197.3	5024.9	4820.7	4487.5	4203.8	4270.1	4243.6	4302.8	4229.4
42.5°	5632.2	5658.7	5580.9	5494.3	5375.8	5082.4	4727.1	4715.6	4673.1	4705.0	4628.9
45°	5942.4	5964.5	5894.7	5874.3	5871.7	5665.7	5298.9	5230.0	5170.8	5164.6	5073.5
47.5°	6056.4	6098.9	6128.9	6197.0	6329.5	6242.9	5890.3	5783.3	5717.0	5668.4	5524.3
50°	6099.7	6144.8	6247.3	6445.3	6759.1	6796.2	6478.9	6358.7	6277.4	6189.0	5976.9
52.5°	6041.4	6121.8	6259.7	6592.9	7048.2	7240.0	7043.7	6938.6	6845.7	6701.7	6387.0
55°	5697.6	5778.0	6060.0	6591.2	7192.2	7551.1	7577.6	7530.8	7426.5	7199.3	6718.5
57.5°	4972.8	5092.1	5538.5	6366.7	7189.6	7818.9	8100.9	8134.5	8017.8	7692.5	6979.2
60°	3968.7	4130.4	4674.9	5869.0	6967.7	7963.9	8559.6	8727.5	8603.8	8178.7	7190.5
62.5°	2769.2	2956.6	3471.9	5089.4	6460.4	7859.6	8894.6	9204.9	9111.2	8613.5	7271.8
65°	1689.1	1749.2	2164.7	4004.9	5597.7	7422.9	8998.0	9462.9	9432.0	8879.6	7151.6
67.5°	1125.2	1175.6	1294.9	2746.3	4345.2	6550.5	8750.5	9417.9	9426.7	8836.3	6711.4
70°	677.9	721.3	799.0	1597.2	2816.1	5184.9	7984.2	8843.3	8894.6	8257.3	5877.0
72.5°	279.3	308.5	379.2	723.9	1458.4	3290.7	6357.8	7592.6	7712.0	6943.0	4510.5
75°	158.2	173.2	222.7	363.3	632.9	1533.6	3851.1	5390.0	5565.9	4785.4	2713.5
77.5°	105.2	112.3	144.1	235.1	356.2	523.3	1645.8	2808.1	3144.0	2613.7	1174.7
80°	70.7	76.9	99.0	157.3	231.6	224.5	524.1	1040.3	1279.9	898.0	286.4
82.5°	47.7	48.6	70.7	103.4	146.7	108.7	154.7	323.5	406.6	259.9	108.7
85°	27.4	26.5	52.1	60.1	65.4	45.1	46.8	97.2	127.3	109.6	61.9
87.5°	3.5	5.3	20.3	15.9	8.8	9.7	9.7	16.8	24.7	26.5	13.3
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°	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6	1533.6
2.5°	1535.3	1534.4	1531.8	1529.1	1522.9	1519.4	1521.2	1519.4	1518.5	1519.4	1522.9
5°	1546.8	1544.2	1537.1	1528.2	1515.9	1500.8	1491.1	1477.0	1463.7	1455.8	1457.5
7.5°	1577.7	1575.1	1565.4	1540.6	1500.8	1438.1	1380.6	1330.3	1292.2	1270.2	1271.0
10°	1627.2	1622.8	1607.8	1553.0	1448.7	1311.7	1197.7	1103.1	1041.2	1012.1	1009.4
12.5°	1685.6	1680.3	1653.8	1541.5	1349.7	1135.8	978.5	873.3	815.8	790.2	787.5
15°	1754.5	1747.5	1695.3	1486.7	1205.6	941.3	797.3	718.6	681.5	658.5	659.4
17.5°	1840.3	1827.9	1726.2	1404.5	1049.2	792.9	685.9	626.7	594.0	571.9	570.1
20°	1951.6	1931.3	1751.0	1306.4	905.1	699.2	610.8	561.3	536.5	517.1	513.5
22.5°	2107.2	2078.0	1781.0	1200.3	803.5	634.6	555.1	518.8	498.5	476.4	472.9
25°	2299.9	2265.4	1818.2	1102.2	733.6	578.9	514.4	484.4	460.5	434.9	432.2
27.5°	2569.5	2507.6	1862.4	1021.8	673.5	531.2	477.3	443.7	416.3	395.1	390.7
30°	2870.0	2768.3	1901.3	973.2	618.7	487.0	428.7	395.1	369.5	354.4	351.8
32.5°	3154.6	3016.7	1926.9	952.0	569.2	436.6	375.7	339.4	320.0	315.5	318.2
35°	3423.3	3241.2	1924.2	931.6	525.0	386.3	323.5	286.4	271.4	274.0	274.0
37.5°	3732.7	3480.8	1905.7	899.8	488.8	340.3	278.4	245.7	232.5	233.3	236.9
40°	4092.4	3757.4	1894.2	839.7	449.0	297.9	241.3	214.8	205.1	201.5	200.6
42.5°	4476.0	4025.2	1895.9	771.6	399.5	259.9	215.7	193.6	184.7	182.1	181.2
45°	4861.4	4280.7	1898.6	700.9	347.4	230.7	197.1	178.5	173.2	169.7	169.7
47.5°	5223.8	4498.1	1849.1	624.9	296.1	208.6	182.1	169.7	165.3	160.9	160.9
50°	5561.4	4643.1	1729.8	536.5	255.4	190.9	170.6	161.8	157.3	152.9	152.9
52.5°	5824.0	4666.1	1532.7	445.5	227.2	177.7	163.5	155.6	150.3	145.8	145.0
55°	5940.6	4522.0	1252.5	360.6	205.1	166.2	156.4	148.5	142.3	137.9	137.0
57.5°	5910.6	4218.8	976.7	289.9	183.8	154.7	147.6	142.3	135.2	128.2	127.3
60°	5763.0	3813.1	736.3	241.3	164.4	142.3	137.9	133.5	123.7	113.1	111.4
62.5°	5507.5	3303.1	525.0	199.8	143.2	128.2	126.4	122.9	108.7	89.3	87.5
65°	5116.9	2683.5	353.6	166.2	122.9	112.3	113.1	107.0	88.4	66.3	64.5
67.5°	4545.9	1962.2	226.3	136.1	102.5	93.7	94.6	91.0	75.1	56.6	53.9
70°	3818.4	1299.3	147.6	103.4	82.2	72.5	77.8	78.7	63.6	46.0	44.2
72.5°	2799.3	767.2	103.4	76.9	60.1	50.4	63.6	65.4	51.3	34.5	32.7
75°	1595.4	364.2	77.8	55.7	37.1	35.4	49.5	49.5	35.4	23.0	21.2
77.5°	670.0	152.0	54.8	36.2	21.2	20.3	33.6	30.9	17.7	10.6	10.6
80°	193.6	68.1	29.2	17.7	8.8	8.0	13.3	9.7	4.4	1.8	1.8
82.5°	76.0	30.1	11.5	7.1	3.5	3.5	1.8	0.0	0.0	0.0	0.0
85°	45.1	12.4	5.3	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	2.7	1.8	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)