

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: P945914

Luminaire Tested: **GALN-SB1D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7120 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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

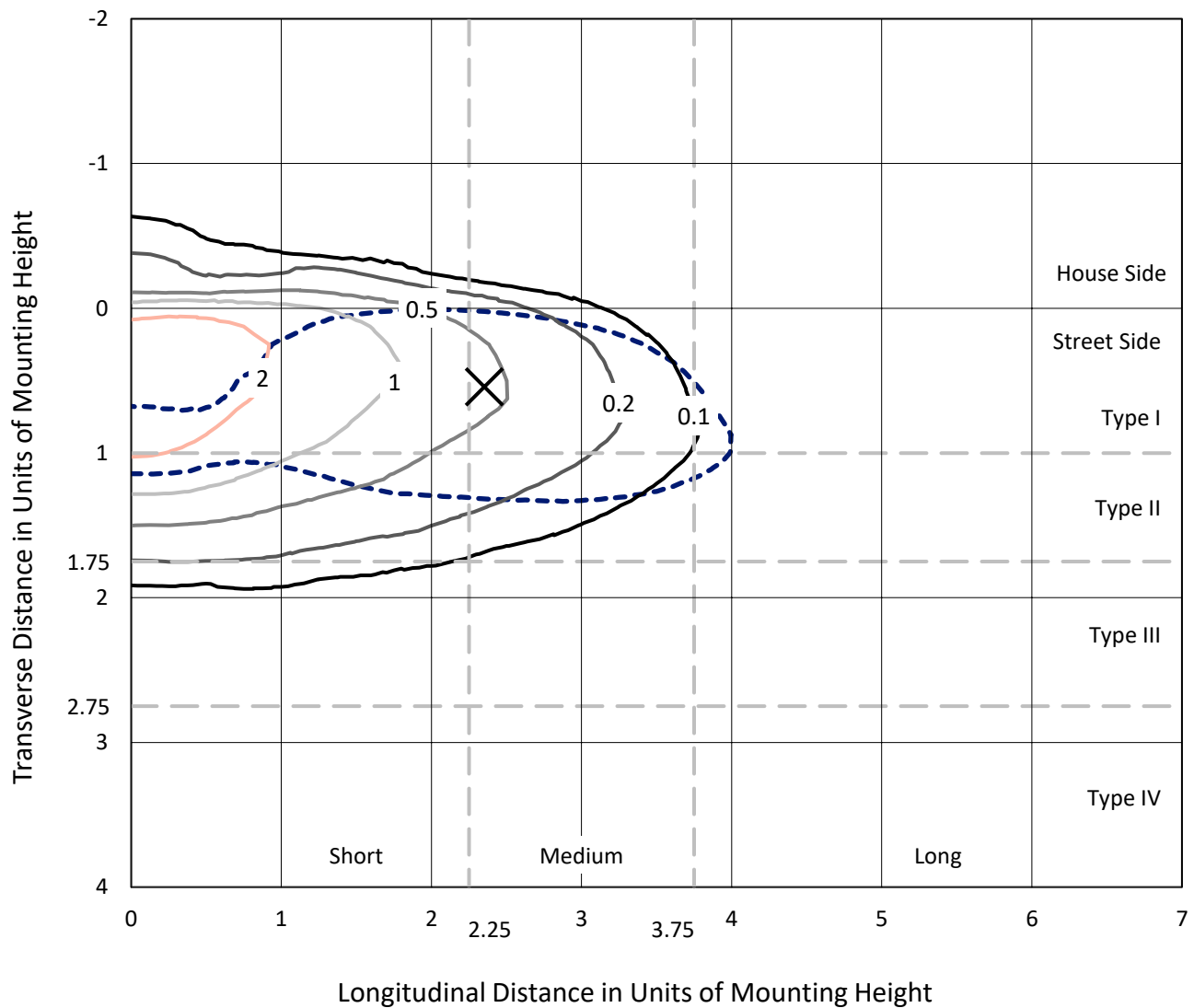


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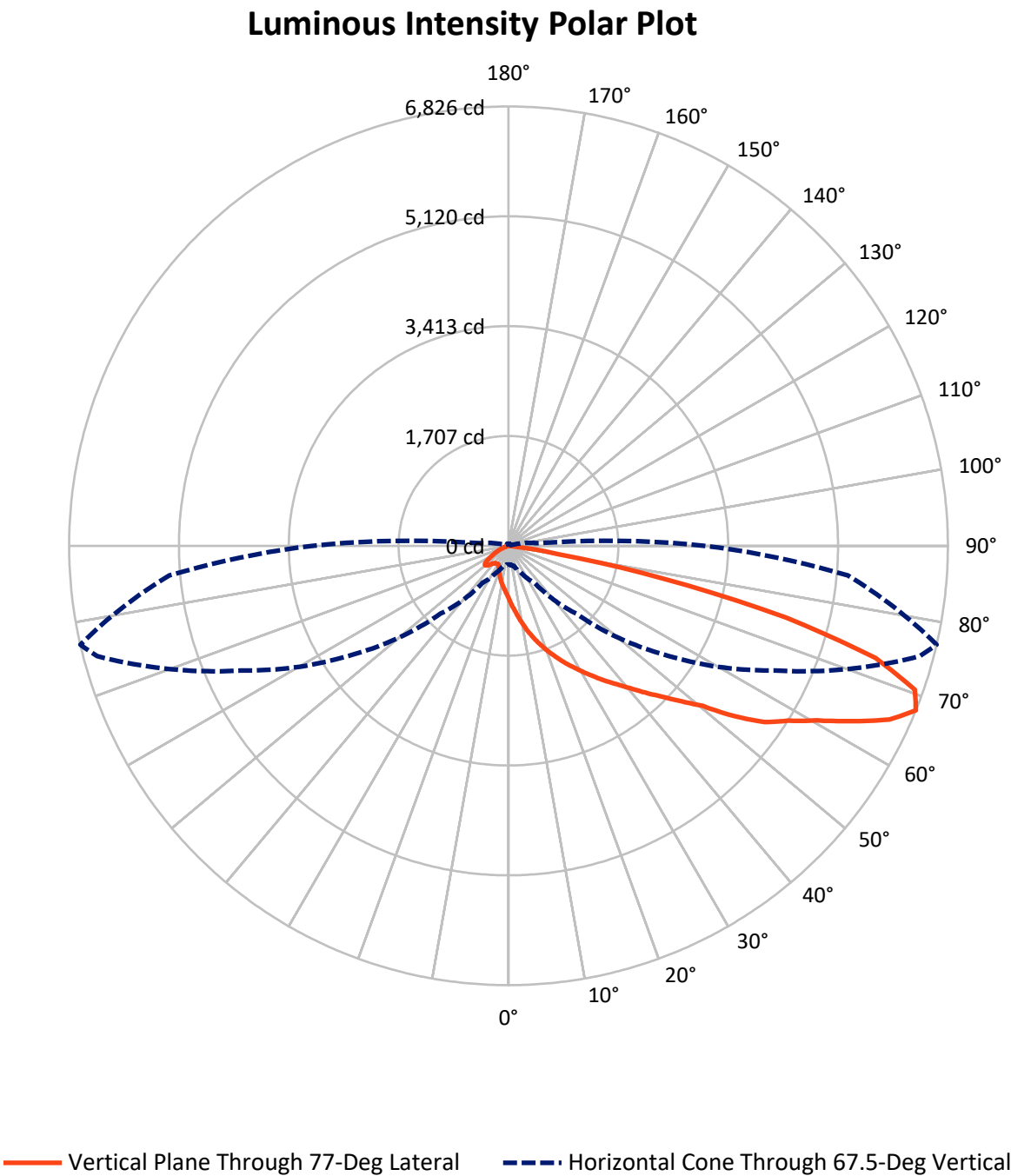
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Medium - N/A

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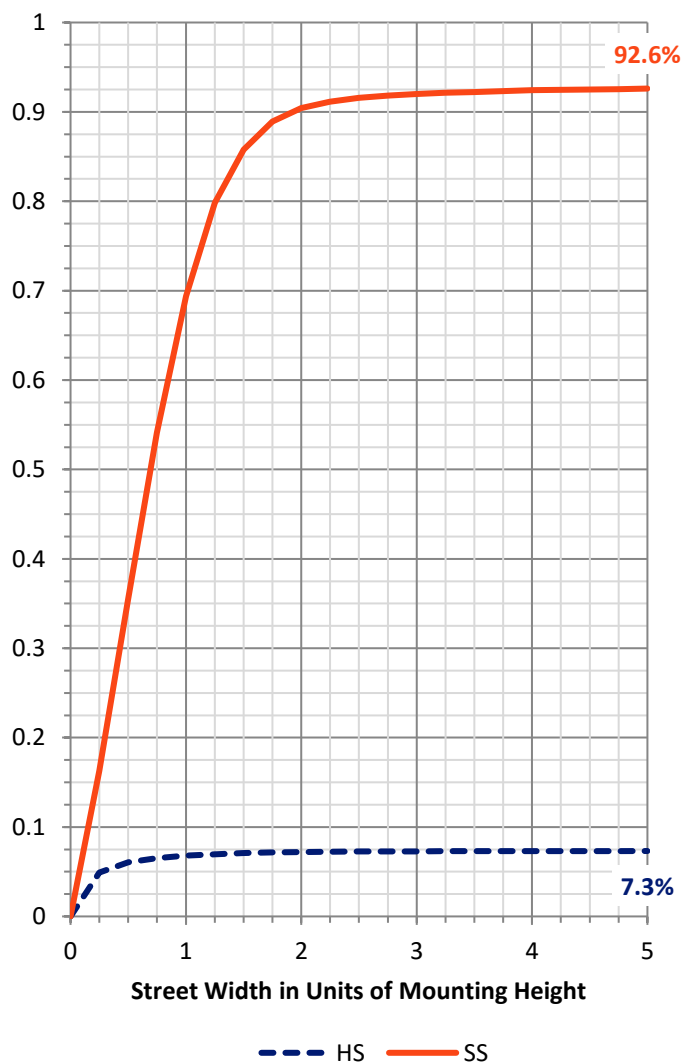
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.8	0.0	523.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6596.2	0.0	6596.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	7120.0	0.0	7120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.2
10°-20°	293.5	4.1
20°-30°	566.3	8.0
30°-40°	983.1	13.8
40°-50°	1427.4	20.0
50°-60°	1639.2	23.0
60°-70°	1423.2	20.0
70°-80°	670.3	9.4
80°-90°	33.2	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°	7120.0	100.0
0°-180°	7120.0	100.0

Coefficient of Utilization



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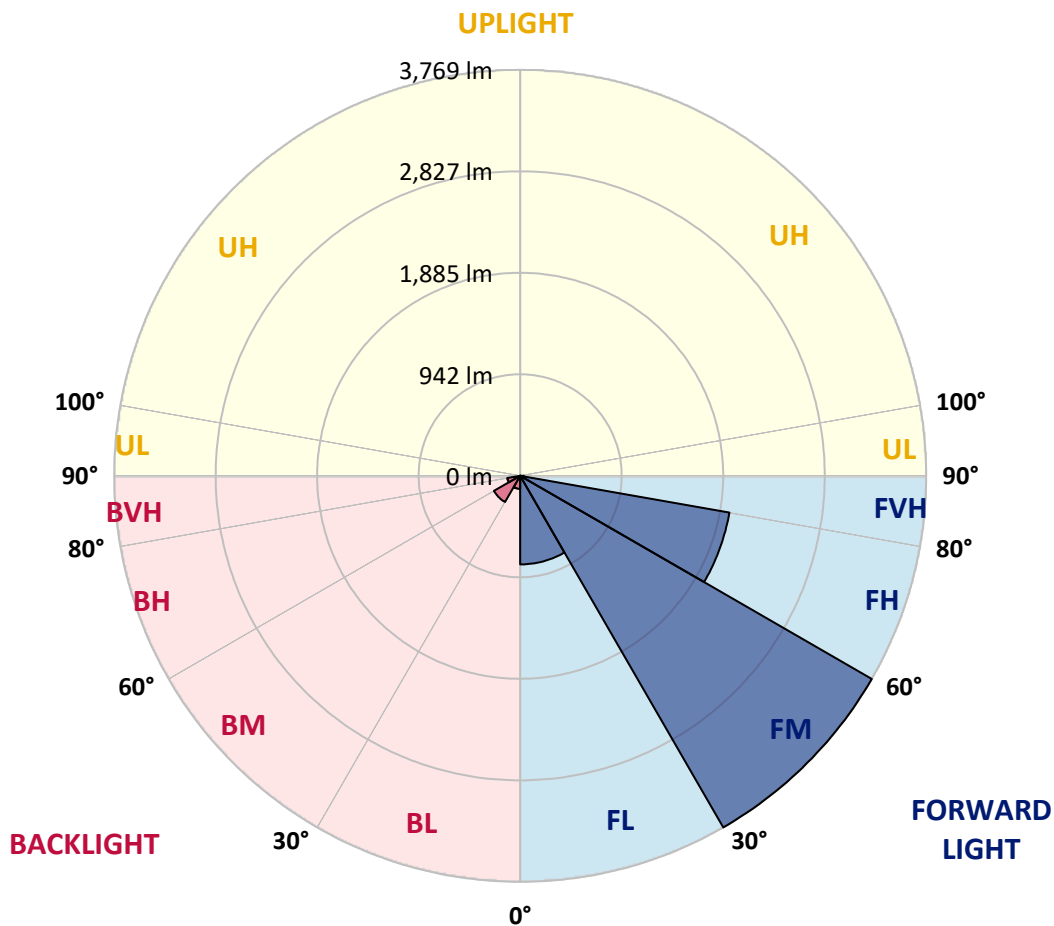
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.3	11.5			
FM	(30°-60°)	3769.1	52.9			
FH	(60°-80°)	1972.2	27.7			G2/5000
FVH	(80°-90°)	32.5	0.5			G1/100
BL	(0°-30°)	121.3	1.7	B1/500		
BM	(30°-60°)	280.7	3.9	B1/1000		
BH	(60°-80°)	121.3	1.7	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	1136.7	1143.8	1133.6	1114.2	1085.0	1066.0	1019.6	975.8	927.2	911.7	863.0
5°	1385.6	1391.8	1380.3	1359.1	1320.2	1283.1	1222.1	1130.5	1035.5	1005.0	918.8
7.5°	1570.0	1573.6	1569.1	1549.7	1512.5	1470.5	1402.4	1294.1	1153.1	1119.5	987.3
10°	1702.7	1714.1	1712.8	1705.3	1680.5	1646.5	1574.0	1450.6	1284.8	1241.5	1064.7
12.5°	1790.6	1803.5	1811.0	1827.8	1826.5	1804.8	1741.1	1610.7	1416.2	1365.3	1151.8
15°	1816.3	1830.0	1858.7	1897.6	1932.1	1943.2	1898.5	1767.6	1560.7	1495.7	1241.1
17.5°	1801.7	1822.9	1857.4	1918.9	1994.5	2044.4	2039.6	1919.3	1692.0	1617.8	1328.6
20°	1834.0	1854.3	1881.3	1933.0	2021.0	2111.6	2147.9	2064.3	1822.5	1744.7	1420.6
22.5°	2012.6	2009.1	2011.7	2020.1	2072.7	2162.5	2237.2	2196.1	1951.6	1872.0	1517.8
25°	2295.6	2279.6	2252.7	2207.1	2193.9	2237.2	2315.0	2312.8	2087.8	2002.4	1617.3
27.5°	2620.1	2617.4	2554.2	2444.6	2382.7	2365.9	2403.0	2426.4	2222.6	2131.5	1717.2
30°	2930.9	2938.0	2852.6	2730.6	2617.0	2551.1	2517.5	2534.3	2359.7	2270.8	1820.3
32.5°	3201.5	3209.0	3116.2	2973.3	2832.7	2753.2	2682.4	2640.9	2509.1	2412.3	1933.4
35°	3430.1	3437.6	3331.0	3173.2	3023.3	2951.2	2871.2	2757.6	2659.4	2569.2	2059.5
37.5°	3634.3	3632.1	3489.3	3330.1	3182.9	3125.9	3083.9	2901.3	2814.2	2727.1	2199.2
40°	3755.0	3764.3	3642.3	3466.8	3324.0	3282.4	3279.7	3079.5	2992.8	2908.3	2352.1
42.5°	3790.4	3806.8	3718.3	3574.2	3444.7	3399.6	3469.0	3272.2	3200.6	3118.4	2525.0
45°	3726.7	3742.7	3702.4	3602.5	3526.9	3497.7	3631.7	3472.1	3422.6	3341.2	2720.0
47.5°	3541.0	3560.9	3570.7	3549.4	3548.6	3578.2	3777.6	3682.5	3686.1	3602.9	2945.9
50°	3181.6	3215.2	3304.5	3379.7	3495.9	3641.8	3919.5	3910.7	3983.2	3911.5	3240.4
52.5°	2528.1	2575.9	2883.6	3089.2	3350.5	3629.9	4075.6	4276.8	4504.4	4399.7	3655.6
55°	2031.6	2031.6	2281.8	2666.5	3066.6	3551.2	4143.7	4514.6	4859.5	4834.7	3947.8
57.5°	1656.2	1676.1	1835.7	2175.7	2655.9	3363.7	4185.7	4664.1	5145.5	5127.4	4233.4
60°	1022.2	1065.1	1366.6	1702.2	2188.6	3029.9	4159.1	4815.3	5492.6	5507.2	4577.4
62.5°	575.7	591.6	726.0	1224.7	1701.8	2581.2	3956.2	4899.7	5936.5	5998.4	4932.0
65°	397.5	405.4	457.2	762.2	1179.6	2055.0	3559.6	4847.1	6381.3	6506.4	5232.6
67.5°	288.7	292.7	325.0	465.6	699.9	1490.0	2938.0	4581.8	6617.0	6826.1	5290.1
70°	222.0	224.6	248.0	306.0	413.4	919.6	2133.7	4054.4	6446.3	6696.1	4995.7
72.5°	180.4	183.0	201.2	226.4	274.1	543.8	1293.2	3292.6	5692.9	5962.6	4252.9
75°	152.1	155.6	172.0	188.3	214.9	349.3	606.6	2292.9	4281.2	4458.0	2957.4
77.5°	84.4	77.8	139.7	156.1	181.3	221.1	283.8	1349.4	2397.7	2446.8	1312.3
80°	52.6	54.4	111.0	125.6	139.3	111.4	130.0	519.5	831.2	789.6	254.2
82.5°	3.1	7.1	85.3	90.6	95.5	47.8	49.1	176.4	200.3	183.9	45.1
85°	0.0	0.0	38.9	31.4	33.2	13.7	14.1	41.1	27.0	29.2	8.8
87.5°	0.0	0.0	0.0	0.9	0.0	1.3	2.7	3.5	1.3	1.8	3.1
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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	832.1	801.1	738.4	676.9	626.9	580.5	547.4	516.0	500.1	499.2	498.3
5°	857.3	792.3	666.7	555.8	466.5	394.8	348.4	315.2	298.4	292.7	291.8
7.5°	892.7	795.0	604.0	449.6	344.4	283.0	256.4	245.8	242.3	238.3	237.4
10°	937.3	801.1	547.8	362.1	271.5	240.5	229.9	225.5	222.8	220.2	219.3
12.5°	987.3	806.9	492.1	300.7	238.8	222.8	215.3	210.0	206.5	203.4	202.5
15°	1035.9	810.4	434.2	257.8	222.0	209.1	201.2	195.4	190.6	187.0	186.6
17.5°	1084.1	815.3	379.8	232.1	208.2	195.4	187.5	180.4	176.4	172.4	172.0
20°	1137.6	814.4	328.5	214.0	194.5	181.7	173.3	166.7	162.7	158.3	157.8
22.5°	1187.1	810.0	283.4	198.5	180.4	168.0	158.7	152.1	148.1	144.6	144.1
25°	1244.2	806.5	245.8	184.4	167.1	154.7	144.6	138.4	134.0	130.9	130.4
27.5°	1299.0	801.1	218.4	171.5	154.3	142.4	132.6	125.6	121.6	119.4	119.4
30°	1352.9	799.8	208.2	159.2	142.8	130.9	121.1	114.5	111.4	110.5	110.1
32.5°	1417.9	803.4	212.7	154.7	132.2	120.3	111.0	106.1	103.0	103.0	103.0
35°	1487.3	802.5	219.3	158.7	125.1	109.6	102.6	99.5	96.4	96.4	96.4
37.5°	1574.4	803.8	224.6	165.4	122.5	100.8	96.8	92.8	91.1	91.1	91.1
40°	1704.4	847.6	222.0	171.1	121.6	94.6	86.7	85.3	84.0	84.0	84.0
42.5°	1863.6	942.6	225.5	171.5	121.1	90.2	79.6	82.2	79.1	78.7	78.3
45°	2037.8	1046.5	248.0	162.3	120.7	88.0	76.0	79.1	74.3	74.3	74.3
47.5°	2210.7	1149.5	271.0	149.0	119.4	87.5	73.0	71.2	69.9	70.3	70.3
50°	2449.0	1233.6	279.9	130.9	116.3	86.7	67.2	67.6	66.8	67.6	67.6
52.5°	2708.5	1251.2	269.3	110.5	107.4	84.0	63.2	65.0	64.6	65.4	65.4
55°	2870.3	1232.2	222.4	92.0	93.7	73.4	59.2	62.8	62.8	62.8	62.8
57.5°	3037.5	1151.3	157.8	74.7	77.8	60.1	55.7	60.6	60.1	59.7	59.7
60°	3157.7	1020.4	103.9	61.5	61.9	49.5	51.7	57.0	56.6	54.4	54.4
62.5°	3247.5	875.9	66.8	52.2	47.3	44.7	47.3	51.7	50.0	45.1	44.2
65°	3237.3	675.6	51.3	44.7	38.9	38.9	41.1	45.1	39.8	31.8	30.9
67.5°	3048.5	457.2	42.4	37.6	32.7	32.3	34.0	37.6	34.0	27.0	26.1
70°	2711.2	298.9	34.0	29.2	26.1	23.9	27.4	32.3	28.7	21.7	20.8
72.5°	2200.5	182.2	25.6	21.2	19.0	15.5	21.7	26.5	23.0	15.9	15.0
75°	1423.7	92.8	17.7	13.7	10.2	9.3	15.9	19.9	15.9	9.7	8.4
77.5°	544.7	38.9	9.7	6.2	5.3	4.4	8.8	11.9	6.6	2.2	1.8
80°	104.8	16.4	4.9	3.1	2.7	1.8	1.3	0.9	0.0	0.0	0.0
82.5°	18.1	5.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	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)