

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: P945935

Luminaire Tested: **GALN-SB1D-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945935
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-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 7994 lumens
Efficiency: N/A
Efficacy: 100.4 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

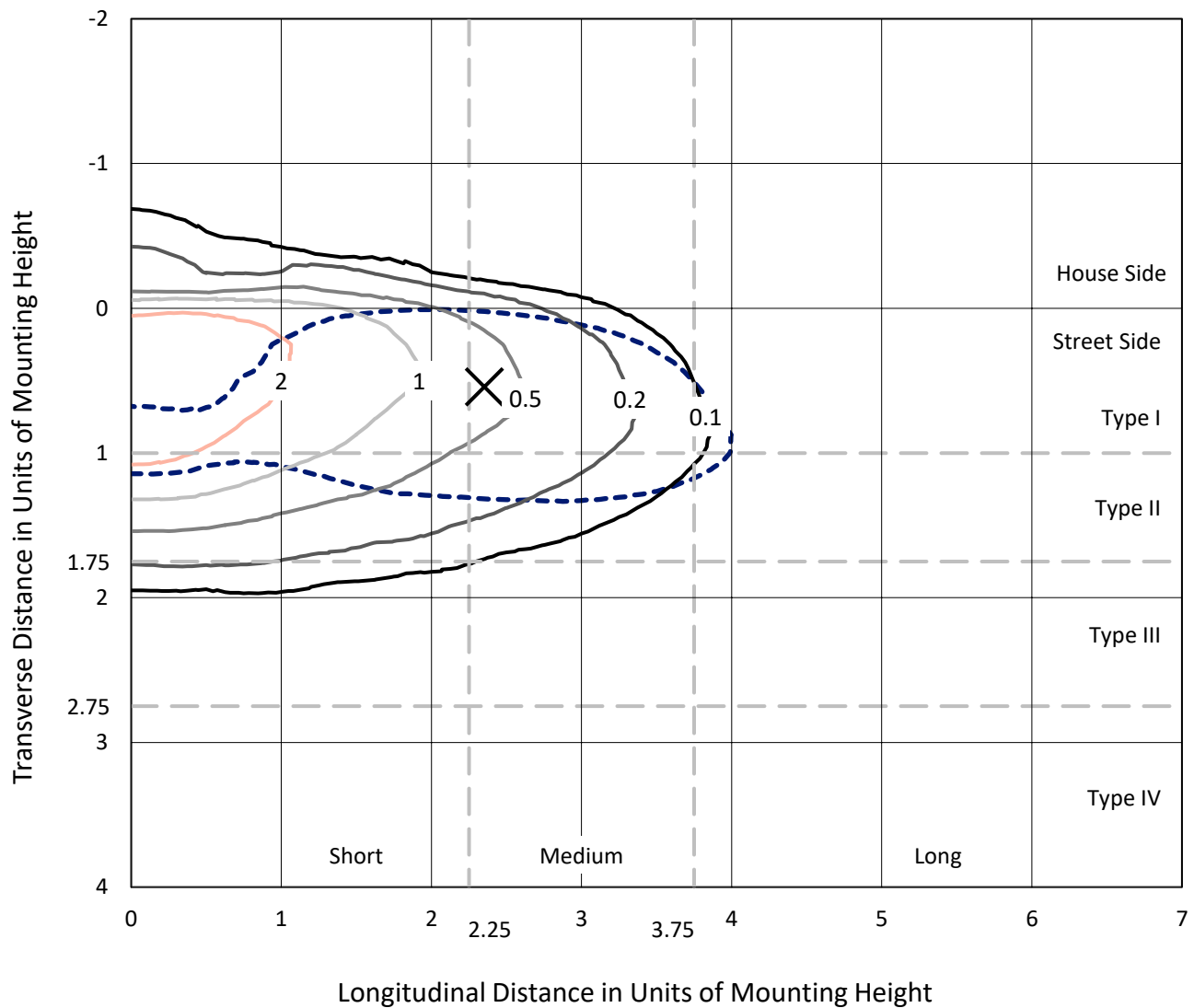


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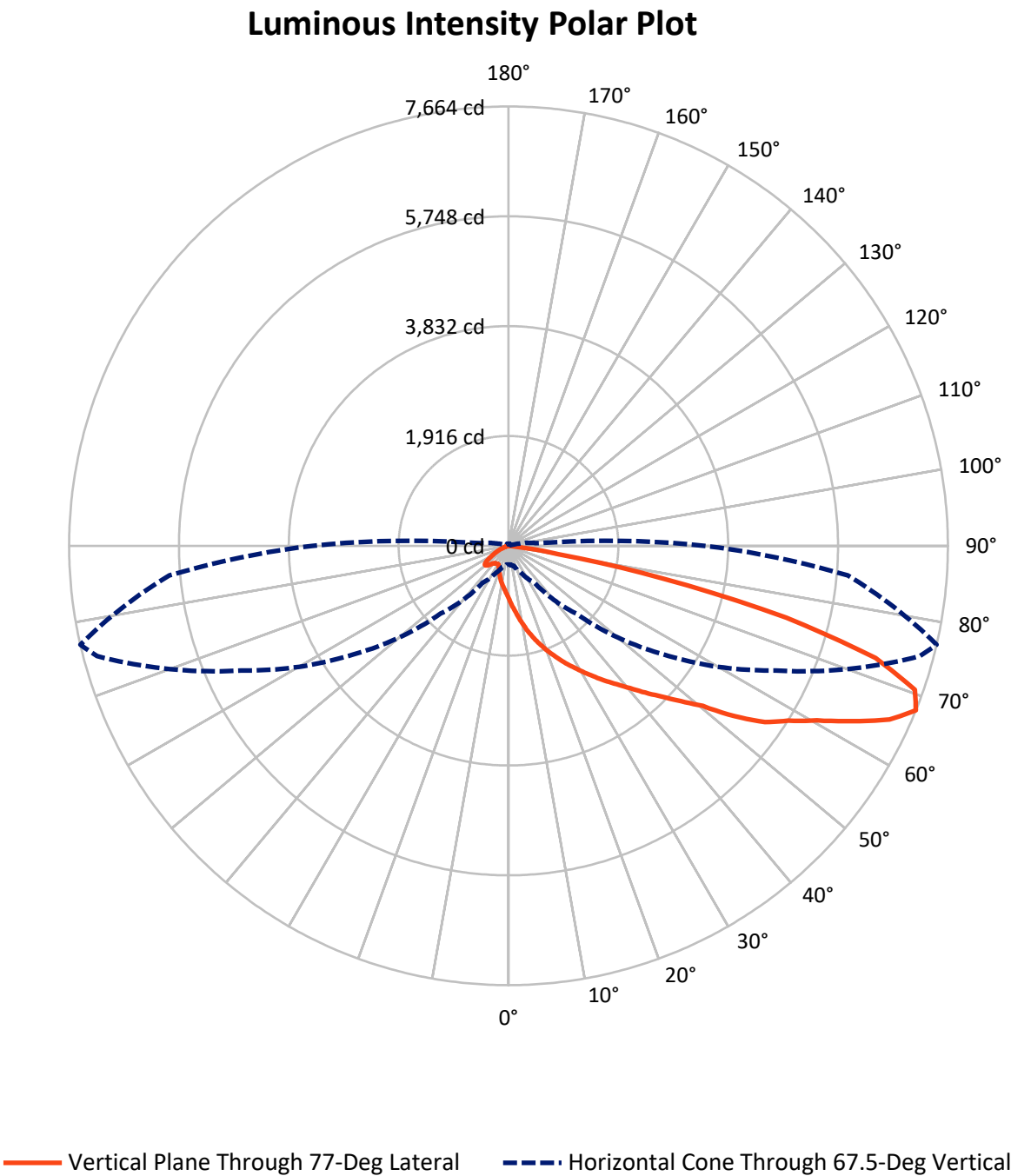
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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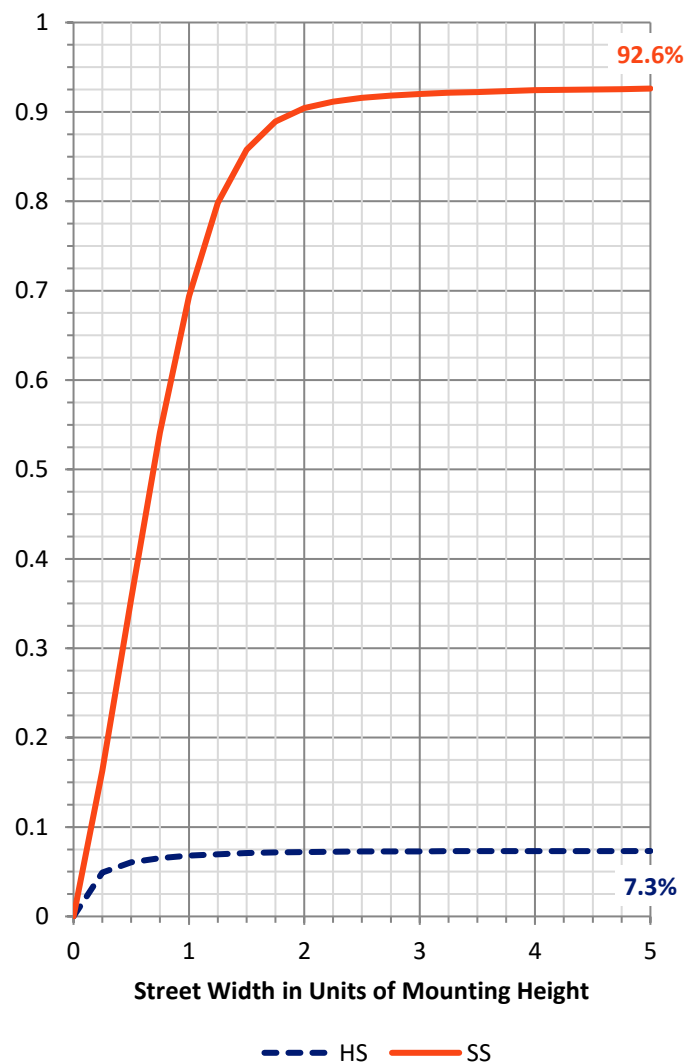
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.1	0.0	588.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	7405.9	0.0	7405.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	7994.0	0.0	7994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.2
10°-20°	329.5	4.1
20°-30°	635.8	8.0
30°-40°	1103.8	13.8
40°-50°	1602.7	20.0
50°-60°	1840.5	23.0
60°-70°	1597.9	20.0
70°-80°	752.6	9.4
80°-90°	37.2	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°	7994.0	100.0
0°-180°	7994.0	100.0

Coefficient of Utilization



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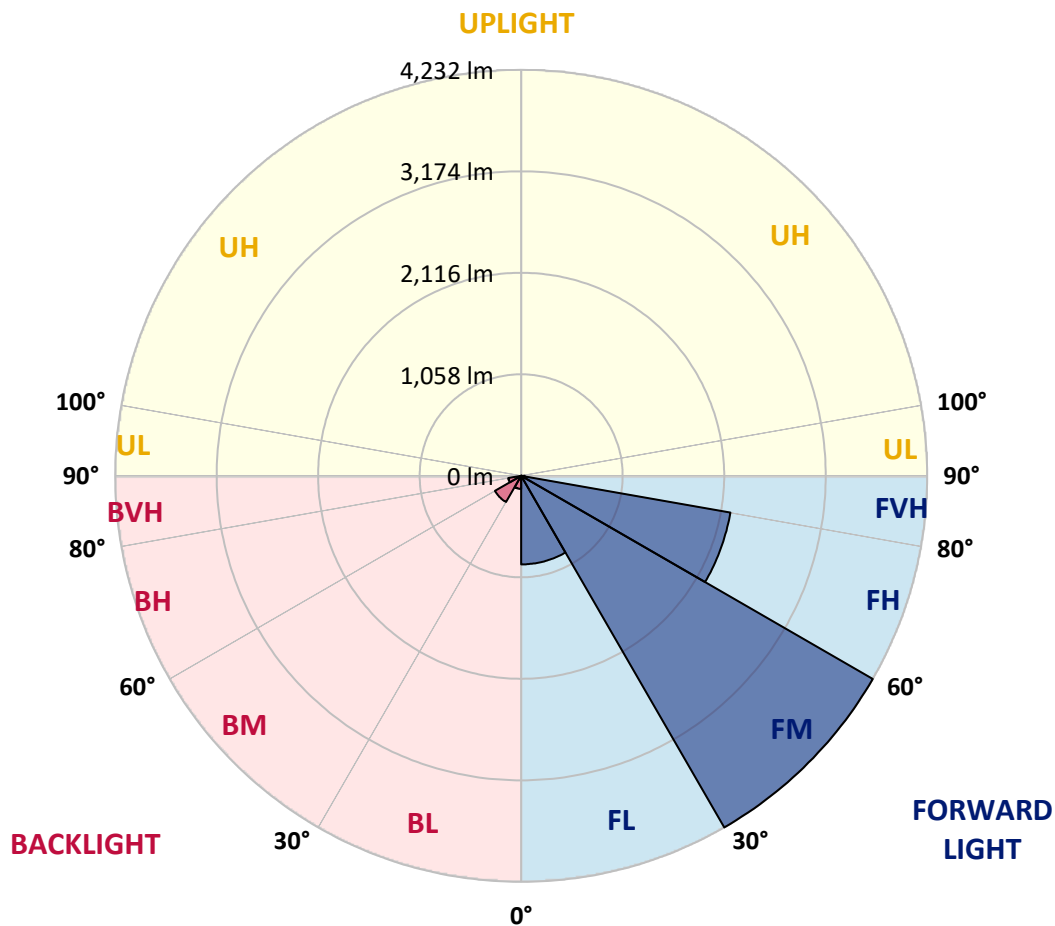
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.2	11.5			
FM	(30°-60°)	4231.8	52.9			
FH	(60°-80°)	2214.3	27.7			G2/5000
FVH	(80°-90°)	36.5	0.5			G1/100
BL	(0°-30°)	136.2	1.7	B1/500		
BM	(30°-60°)	315.1	3.9	B1/1000		
BH	(60°-80°)	136.2	1.7	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	1276.3	1284.2	1272.8	1250.9	1218.2	1196.8	1144.7	1095.6	1041.0	1023.6	969.0
5°	1555.7	1562.7	1549.8	1526.0	1482.3	1440.6	1372.1	1269.3	1162.6	1128.3	1031.5
7.5°	1762.7	1766.7	1761.7	1739.9	1698.2	1651.0	1574.6	1453.0	1294.6	1256.9	1108.5
10°	1911.7	1924.6	1923.1	1914.6	1886.8	1848.6	1767.2	1628.7	1442.6	1393.9	1195.3
12.5°	2010.4	2024.8	2033.3	2052.1	2050.7	2026.3	1954.8	1808.4	1590.0	1532.9	1293.1
15°	2039.2	2054.6	2086.9	2130.6	2169.3	2181.7	2131.6	1984.6	1752.3	1679.3	1393.4
17.5°	2022.9	2046.7	2085.4	2154.4	2239.3	2295.4	2289.9	2154.9	1899.7	1816.3	1491.7
20°	2059.1	2081.9	2112.2	2170.3	2269.1	2370.8	2411.5	2317.7	2046.2	1958.8	1595.0
22.5°	2259.6	2255.7	2258.6	2268.1	2327.2	2427.9	2511.8	2465.6	2191.1	2101.8	1704.2
25°	2577.3	2559.5	2529.2	2478.1	2463.2	2511.8	2599.2	2596.7	2344.0	2248.2	1815.9
27.5°	2941.7	2938.7	2867.7	2744.6	2675.1	2656.3	2698.0	2724.3	2495.4	2393.2	1928.0
30°	3290.7	3298.6	3202.8	3065.8	2938.2	2864.3	2826.5	2845.4	2649.3	2549.5	2043.7
32.5°	3594.5	3602.9	3498.7	3338.3	3180.5	3091.1	3011.7	2965.0	2817.1	2708.4	2170.8
35°	3851.1	3859.6	3739.9	3562.7	3394.4	3313.5	3223.7	3096.1	2985.9	2884.6	2312.3
37.5°	4080.5	4078.0	3917.6	3738.9	3573.6	3509.6	3462.4	3257.4	3159.6	3061.8	2469.1
40°	4216.0	4226.4	4089.4	3892.3	3732.0	3685.3	3682.3	3457.5	3360.2	3265.4	2640.9
42.5°	4255.7	4274.1	4174.8	4012.9	3867.5	3816.9	3894.8	3673.9	3593.5	3501.2	2835.0
45°	4184.2	4202.1	4156.9	4044.7	3959.8	3927.1	4077.5	3898.3	3842.7	3751.3	3053.9
47.5°	3975.7	3998.1	4009.0	3985.1	3984.2	4017.4	4241.3	4134.6	4138.5	4045.2	3307.6
50°	3572.1	3609.9	3710.1	3794.5	3925.1	4088.9	4400.6	4390.7	4472.1	4391.7	3638.2
52.5°	2838.4	2892.1	3237.6	3468.4	3761.8	4075.5	4575.9	4801.7	5057.4	4939.7	4104.3
55°	2281.0	2281.0	2562.0	2993.8	3443.1	3987.1	4652.3	5068.8	5456.0	5428.2	4432.4
57.5°	1859.5	1881.9	2061.1	2442.8	2981.9	3776.7	4699.5	5236.6	5777.2	5756.8	4753.1
60°	1147.7	1195.8	1534.4	1911.2	2457.2	3401.9	4669.7	5406.4	6166.9	6183.2	5139.3
62.5°	646.3	664.2	815.1	1375.0	1910.7	2898.0	4441.8	5501.2	6665.2	6734.7	5537.4
65°	446.3	455.2	513.3	855.8	1324.4	2307.3	3996.6	5442.1	7164.6	7305.1	5875.0
67.5°	324.2	328.6	364.9	522.7	785.8	1672.9	3298.6	5144.3	7429.2	7664.0	5939.5
70°	249.2	252.2	278.5	343.5	464.1	1032.5	2395.7	4552.0	7237.6	7518.1	5608.9
72.5°	202.5	205.5	225.9	254.2	307.8	610.6	1452.0	3696.7	6391.7	6694.5	4774.9
75°	170.8	174.7	193.1	211.5	241.3	392.2	681.1	2574.4	4806.7	5005.3	3320.5
77.5°	94.8	87.4	156.9	175.2	203.5	248.2	318.7	1515.0	2692.0	2747.1	1473.3
80°	59.1	61.1	124.6	141.0	156.4	125.1	145.9	583.3	933.2	886.6	285.4
82.5°	3.5	7.9	95.8	101.8	107.2	53.6	55.1	198.1	224.9	206.5	50.6
85°	0.0	0.0	43.7	35.2	37.2	15.4	15.9	46.2	30.3	32.8	9.9
87.5°	0.0	0.0	0.0	1.0	0.0	1.5	3.0	4.0	1.5	2.0	3.5
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°	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8	921.8
2.5°	934.2	899.5	829.0	760.0	703.9	651.8	614.6	579.3	561.4	560.4	559.4
5°	962.5	889.6	748.6	624.0	523.7	443.3	391.2	353.9	335.1	328.6	327.6
7.5°	1002.2	892.5	678.1	504.8	386.7	317.7	287.9	276.0	272.0	267.6	266.6
10°	1052.4	899.5	615.0	406.6	304.8	270.0	258.1	253.2	250.2	247.2	246.2
12.5°	1108.5	905.9	552.5	337.6	268.1	250.2	241.7	235.8	231.8	228.3	227.4
15°	1163.1	909.9	487.5	289.4	249.2	234.8	225.9	219.4	214.0	210.0	209.5
17.5°	1217.2	915.4	426.4	260.6	233.8	219.4	210.5	202.5	198.1	193.6	193.1
20°	1277.3	914.4	368.8	240.3	218.4	204.0	194.6	187.1	182.7	177.7	177.2
22.5°	1332.8	909.4	318.2	222.9	202.5	188.6	178.2	170.8	166.3	162.3	161.8
25°	1396.9	905.4	276.0	207.0	187.6	173.7	162.3	155.4	150.4	146.9	146.4
27.5°	1458.4	899.5	245.2	192.6	173.2	159.8	148.9	141.0	136.5	134.0	134.0
30°	1519.0	898.0	233.8	178.7	160.3	146.9	136.0	128.6	125.1	124.1	123.6
32.5°	1592.0	902.0	238.8	173.7	148.4	135.0	124.6	119.1	115.7	115.7	115.7
35°	1669.9	901.0	246.2	178.2	140.5	123.1	115.2	111.7	108.2	108.2	108.2
37.5°	1767.7	902.5	252.2	185.7	137.5	113.2	108.7	104.2	102.3	102.3	102.3
40°	1913.6	951.6	249.2	192.1	136.5	106.2	97.3	95.8	94.3	94.3	94.3
42.5°	2092.4	1058.3	253.2	192.6	136.0	101.3	89.4	92.3	88.9	88.4	87.9
45°	2287.9	1175.0	278.5	182.2	135.5	98.8	85.4	88.9	83.4	83.4	83.4
47.5°	2482.0	1290.7	304.3	167.3	134.0	98.3	81.9	79.9	78.4	78.9	78.9
50°	2749.6	1385.0	314.2	146.9	130.6	97.3	75.5	76.0	75.0	76.0	76.0
52.5°	3041.0	1404.8	302.3	124.1	120.6	94.3	71.0	73.0	72.5	73.5	73.5
55°	3222.7	1383.5	249.7	103.3	105.2	82.4	66.5	70.5	70.5	70.5	70.5
57.5°	3410.3	1292.6	177.2	83.9	87.4	67.5	62.5	68.0	67.5	67.0	67.0
60°	3545.3	1145.7	116.7	69.0	69.5	55.6	58.1	64.0	63.5	61.1	61.1
62.5°	3646.1	983.4	75.0	58.6	53.1	50.1	53.1	58.1	56.1	50.6	49.6
65°	3634.7	758.5	57.6	50.1	43.7	43.7	46.2	50.6	44.7	35.7	34.7
67.5°	3422.7	513.3	47.7	42.2	36.7	36.2	38.2	42.2	38.2	30.3	29.3
70°	3044.0	335.6	38.2	32.8	29.3	26.8	30.8	36.2	32.3	24.3	23.3
72.5°	2470.6	204.5	28.8	23.8	21.3	17.4	24.3	29.8	25.8	17.9	16.9
75°	1598.4	104.2	19.9	15.4	11.4	10.4	17.9	22.3	17.9	10.9	9.4
77.5°	611.6	43.7	10.9	6.9	6.0	5.0	9.9	13.4	7.4	2.5	2.0
80°	117.6	18.4	5.5	3.5	3.0	2.0	1.5	1.0	0.0	0.0	0.0
82.5°	20.4	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)