

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: P949516

Luminaire Tested: **GALN-SB4B-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22952 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 147
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

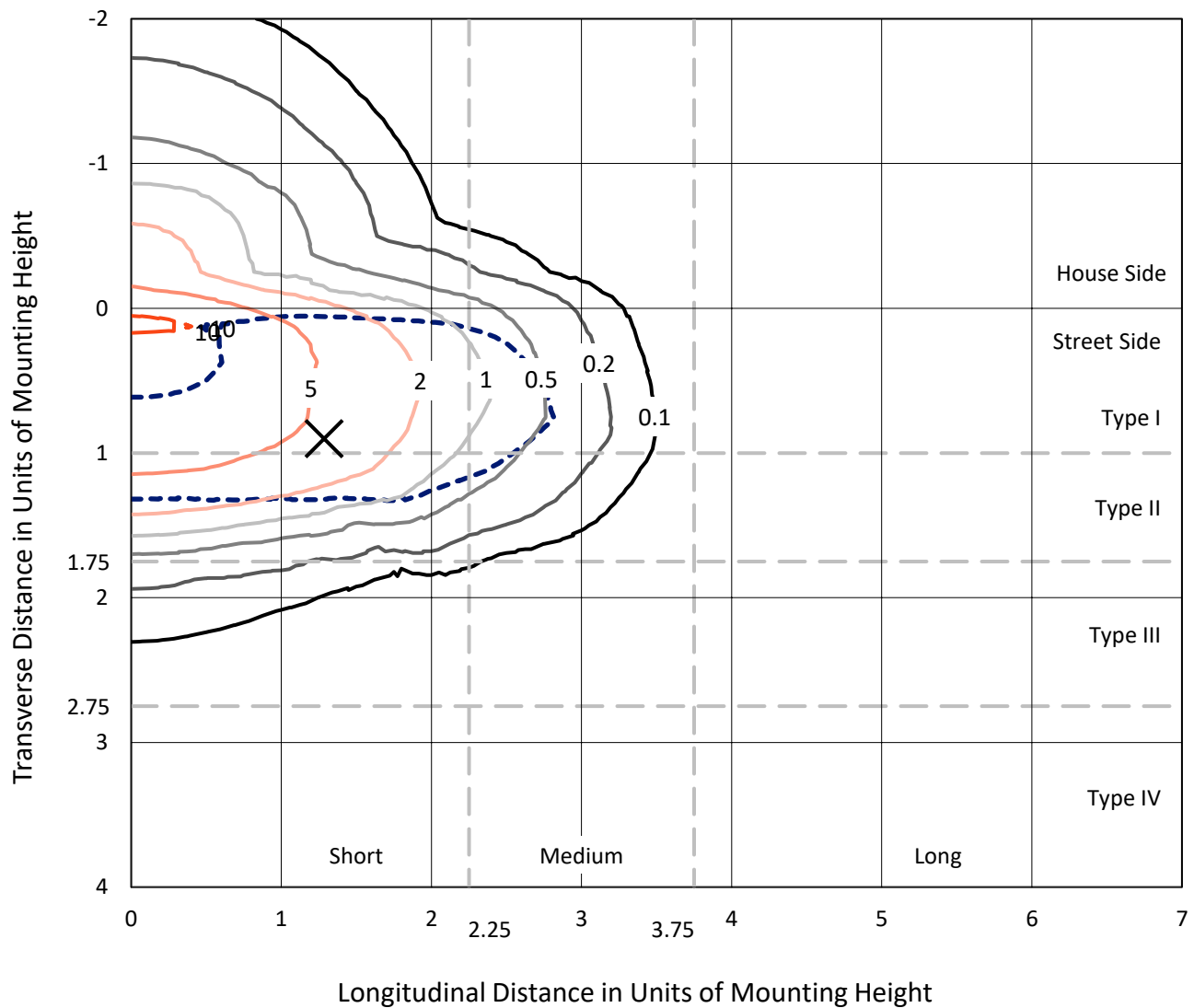


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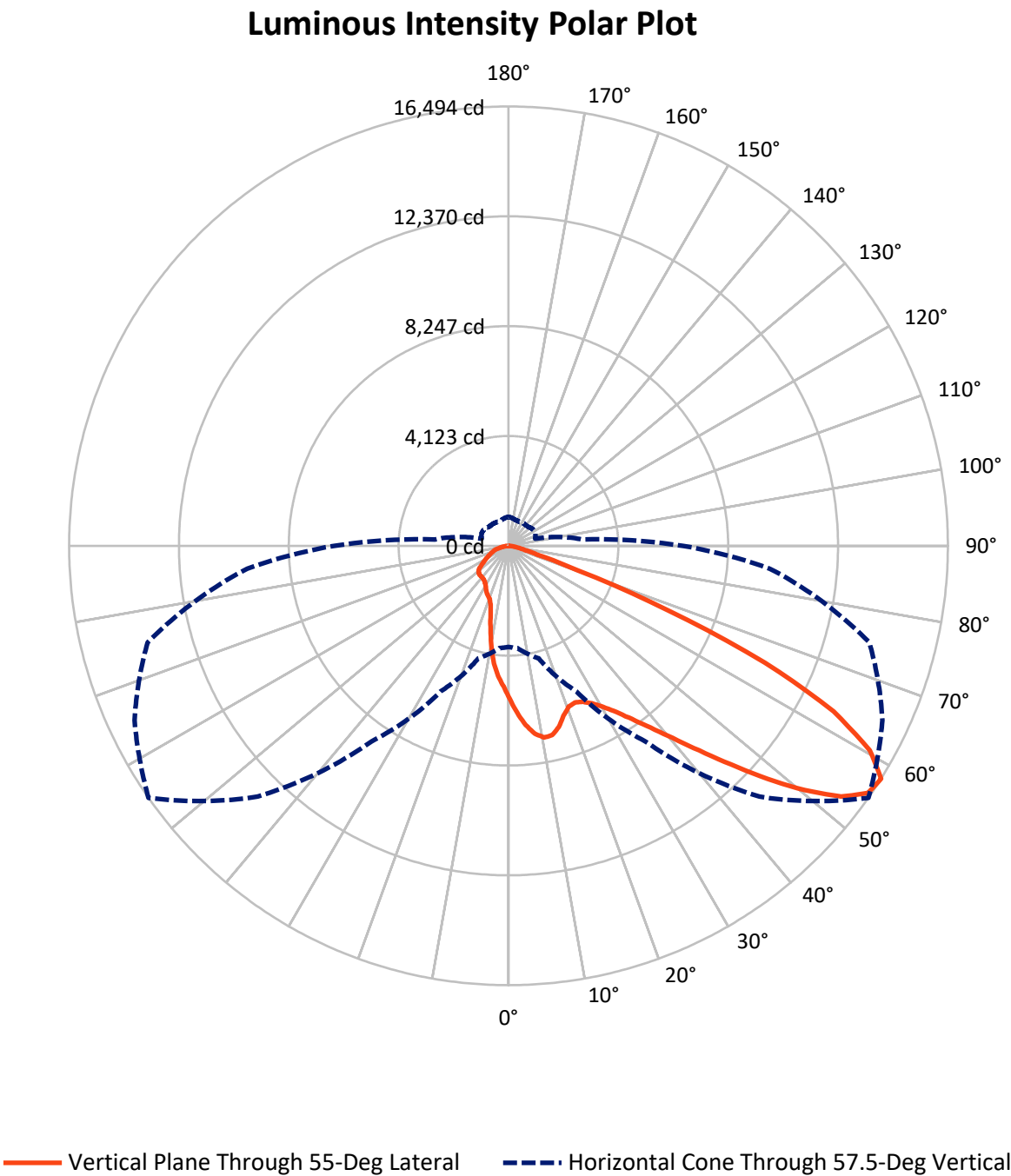
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4153.1	0.0	4153.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18798.9	0.0	18798.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	22952.0	0.0	22952.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.7	2.3
10°-20°	1347.0	5.9
20°-30°	2149.4	9.4
30°-40°	3403.0	14.8
40°-50°	5208.7	22.7
50°-60°	5579.0	24.3
60°-70°	3509.8	15.3
70°-80°	1037.9	4.5
80°-90°	183.5	0.8
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°	22952.0	100.0
0°-180°	22952.0	100.0

Coefficient of Utilization



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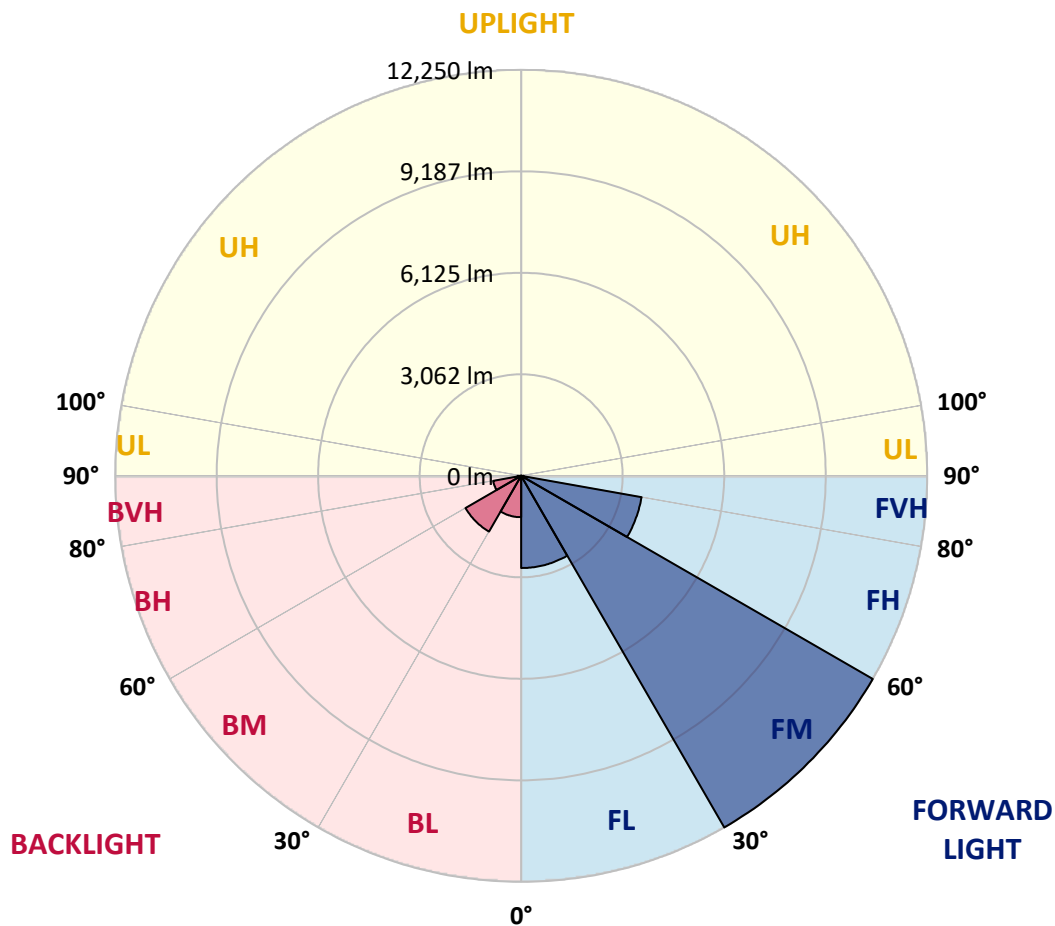
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2781.8	12.1			
FM	(30°-60°)	12249.6	53.4			
FH	(60°-80°)	3690.0	16.1			G2/5000
FVH	(80°-90°)	77.5	0.3			G1/100
BL	(0°-30°)	1248.3	5.4	B3/2500		
BM	(30°-60°)	1941.1	8.5	B2/2500		
BH	(60°-80°)	857.7	3.7	B2/1000		G2/1000
BVH	(80°-90°)	106.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0
2.5°	6598.2	6593.5	6619.6	6530.6	6470.1	6388.2	6280.2	6142.6	5994.3	5837.6	5770.0
5°	7192.6	7151.1	7178.4	7112.0	7045.5	6922.1	6761.9	6537.7	6263.6	5951.5	5785.4
7.5°	7098.9	7070.4	7140.4	7199.8	7249.6	7234.2	7116.7	6881.8	6528.2	6074.9	5834.1
10°	6343.1	6311.1	6409.5	6614.8	6916.2	7178.4	7320.8	7174.8	6798.7	6210.2	5881.5
12.5°	5676.3	5660.9	5726.1	5892.2	6226.8	6729.9	7294.7	7431.1	7079.9	6370.4	5945.6
15°	5391.5	5372.5	5414.1	5498.3	5711.9	6180.5	7057.4	7606.7	7356.4	6555.5	6047.7
17.5°	5328.6	5307.3	5325.1	5369.0	5506.6	5863.7	6699.0	7693.3	7644.7	6761.9	6133.1
20°	5444.9	5427.1	5429.5	5427.1	5523.2	5806.8	6449.9	7660.1	7896.2	6951.8	6216.1
22.5°	5726.1	5696.4	5697.6	5634.7	5687.0	5906.5	6384.6	7571.1	8120.5	7117.9	6279.0
25°	6184.1	6130.7	6141.4	5981.2	5967.0	6129.5	6486.7	7502.3	8343.6	7250.8	6290.9
27.5°	6810.6	6750.1	6718.0	6479.5	6365.6	6446.3	6694.3	7526.0	8554.8	7365.9	6261.2
30°	7593.7	7520.1	7454.9	7116.7	6910.2	6880.6	7017.0	7682.7	8803.9	7486.9	6210.2
32.5°	8553.6	8468.1	8349.5	7901.0	7610.3	7454.9	7434.7	7961.5	9095.8	7641.1	6184.1
35°	9696.2	9584.6	9416.2	8836.0	8468.1	8150.2	7985.2	8363.7	9495.7	7873.7	6213.8
37.5°	10873.2	10747.4	10593.2	9902.6	9450.6	8981.9	8656.8	8909.5	10028.4	8189.3	6292.1
40°	11958.9	11817.7	11674.1	11059.5	10574.2	10009.4	9479.0	9600.1	10679.8	8566.6	6425.0
42.5°	12599.6	12495.2	12440.6	12108.4	11733.4	11160.3	10501.8	10418.8	11411.9	9000.9	6576.8
45°	12571.1	12528.4	12696.9	12834.5	12745.5	12427.5	11700.2	11324.1	12146.3	9377.0	6716.8
47.5°	11899.5	11928.0	12304.1	13077.7	13418.3	13584.4	13064.7	12212.8	12784.7	9658.2	6779.7
50°	10072.3	10096.0	10966.9	12635.2	13591.5	14527.7	14418.5	13080.1	13279.4	9830.3	6765.5
52.5°	8625.9	8641.4	9015.1	11322.9	13019.6	15002.3	15638.2	13897.6	13641.3	9877.7	6686.0
55°	6497.3	6550.7	6969.6	8883.4	11531.7	14626.1	16381.0	14740.0	13870.3	9882.5	6602.9
57.5°	3795.7	3853.8	4371.1	6029.9	8962.9	13315.0	16493.7	15487.5	14025.8	9844.5	6553.1
60°	1859.3	1884.2	2109.6	3169.2	5526.8	10789.0	15587.2	15849.4	14112.4	9824.3	6550.7
62.5°	1253.0	1249.4	1258.9	1563.8	2723.0	6931.6	13698.3	15215.8	14066.1	9747.2	6527.0
65°	1077.4	1064.3	1028.7	1097.5	1410.8	3170.4	10583.7	13324.5	13713.7	9553.8	6364.5
67.5°	931.4	932.6	933.8	912.4	1007.3	1463.0	6467.7	10495.9	12448.9	8637.8	5738.0
70°	771.2	781.9	786.7	786.7	821.1	959.9	2761.0	7193.8	9819.6	6772.6	4621.5
72.5°	702.4	679.9	682.2	670.4	670.4	730.9	1111.8	4078.0	6186.5	3809.9	2820.3
75°	573.1	587.3	589.7	581.4	554.1	557.7	659.7	1711.0	2647.1	1580.4	1394.2
77.5°	494.8	494.8	499.5	493.6	472.2	417.7	440.2	663.3	900.6	647.8	696.5
80°	397.5	396.3	416.5	428.3	395.1	308.5	281.2	366.6	399.9	284.8	361.9
82.5°	193.4	205.3	285.9	326.3	300.2	223.1	172.0	227.8	213.6	125.8	162.6
85°	112.7	106.8	128.1	181.5	172.0	123.4	83.1	118.7	111.5	64.1	65.3
87.5°	35.6	33.2	26.1	61.7	49.8	34.4	22.5	34.4	30.8	14.2	14.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0	5751.0
2.5°	5685.8	5545.8	5406.9	5280.0	5202.9	5153.0	5103.2	5047.4	5026.1	4994.0
5°	5628.8	5358.3	5117.4	4909.8	4721.1	4572.8	4423.3	4302.3	4247.7	4284.5
7.5°	5595.6	5204.0	4832.7	4451.8	4085.2	3792.1	3537.0	3357.8	3277.1	3297.3
10°	5565.9	5029.6	4463.7	3862.1	3335.3	2972.2	2711.2	2574.7	2523.7	2534.4
12.5°	5538.6	4833.9	4018.7	3227.3	2667.3	2427.6	2352.9	2354.0	2363.5	2370.7
15°	5533.9	4597.7	3521.6	2672.0	2306.6	2291.2	2371.8	2422.9	2450.1	2458.5
17.5°	5526.8	4315.3	3014.9	2293.5	2218.8	2323.2	2397.9	2431.2	2452.5	2453.7
20°	5498.3	3957.0	2547.4	2113.2	2199.8	2290.0	2336.2	2362.3	2380.1	2386.1
22.5°	5410.5	3558.4	2183.2	2032.5	2123.9	2196.2	2250.8	2280.5	2291.2	2298.3
25°	5252.7	3112.2	1931.6	1955.4	2018.3	2109.6	2153.5	2159.5	2155.9	2166.6
27.5°	5046.2	2634.1	1775.0	1851.0	1931.6	2010.0	2033.7	2030.1	2023.0	2034.9
30°	4797.1	2204.5	1675.4	1733.5	1843.8	1915.0	1936.4	1928.1	1913.8	1926.9
32.5°	4533.7	1853.3	1593.5	1651.6	1771.5	1841.5	1862.8	1854.5	1843.8	1854.5
35°	4288.1	1607.7	1517.5	1597.0	1714.5	1783.3	1810.6	1811.8	1811.8	1824.9
37.5°	4062.6	1464.2	1454.7	1562.6	1675.4	1737.1	1776.2	1778.6	1727.6	1731.1
40°	3853.8	1403.6	1426.2	1540.1	1637.4	1696.7	1699.1	1566.2	1472.5	1470.1
42.5°	3682.9	1391.8	1434.5	1537.7	1610.1	1612.5	1445.2	1341.9	1315.8	1317.0
45°	3522.8	1388.2	1453.5	1537.7	1569.8	1393.0	1280.2	1253.0	1255.3	1264.8
47.5°	3343.6	1374.0	1457.0	1516.4	1453.5	1238.7	1205.5	1193.6	1188.9	1191.3
50°	3147.8	1323.0	1411.9	1473.6	1254.1	1172.3	1130.7	1127.2	1133.1	1136.7
52.5°	2941.4	1239.9	1334.8	1396.5	1162.8	1114.1	1067.9	1076.2	1102.3	1110.6
55°	2806.1	1142.6	1232.8	1242.3	1098.7	1059.6	1020.4	1039.4	1088.0	1103.5
57.5°	2770.5	1039.4	1116.5	1105.8	1016.8	1012.1	988.4	1005.0	1066.7	1089.2
60°	2759.8	946.8	1002.6	994.3	937.3	959.9	954.0	962.3	983.6	990.7
62.5°	2676.8	873.3	900.6	888.7	866.2	905.3	919.5	901.7	918.4	926.7
65°	2465.6	813.9	800.9	792.6	802.1	837.7	866.2	830.6	846.0	869.7
67.5°	2116.7	733.3	697.7	707.2	736.8	755.8	792.6	752.2	765.3	805.6
70°	1712.1	631.2	599.2	626.5	655.0	694.1	700.0	672.8	703.6	748.7
72.5°	1211.4	528.0	505.5	561.2	570.7	621.7	608.7	595.6	638.3	653.8
75°	840.1	426.0	412.9	455.6	490.0	533.9	524.4	539.9	630.0	637.2
77.5°	531.6	331.0	322.7	350.0	397.5	446.1	461.6	637.2	1076.2	1118.9
80°	308.5	246.8	237.3	258.7	300.2	345.3	444.9	781.9	709.5	701.2
82.5°	172.0	169.7	157.8	163.7	200.5	249.2	628.9	550.5	447.3	461.6
85°	80.7	99.7	85.4	81.9	112.7	291.9	420.0	314.4	208.8	204.1
87.5°	21.4	19.0	19.0	21.4	47.5	251.5	167.3	134.1	79.5	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)