

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: P949164

Luminaire Tested: **GALN-SB4A-730-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-730-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17570 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 114
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



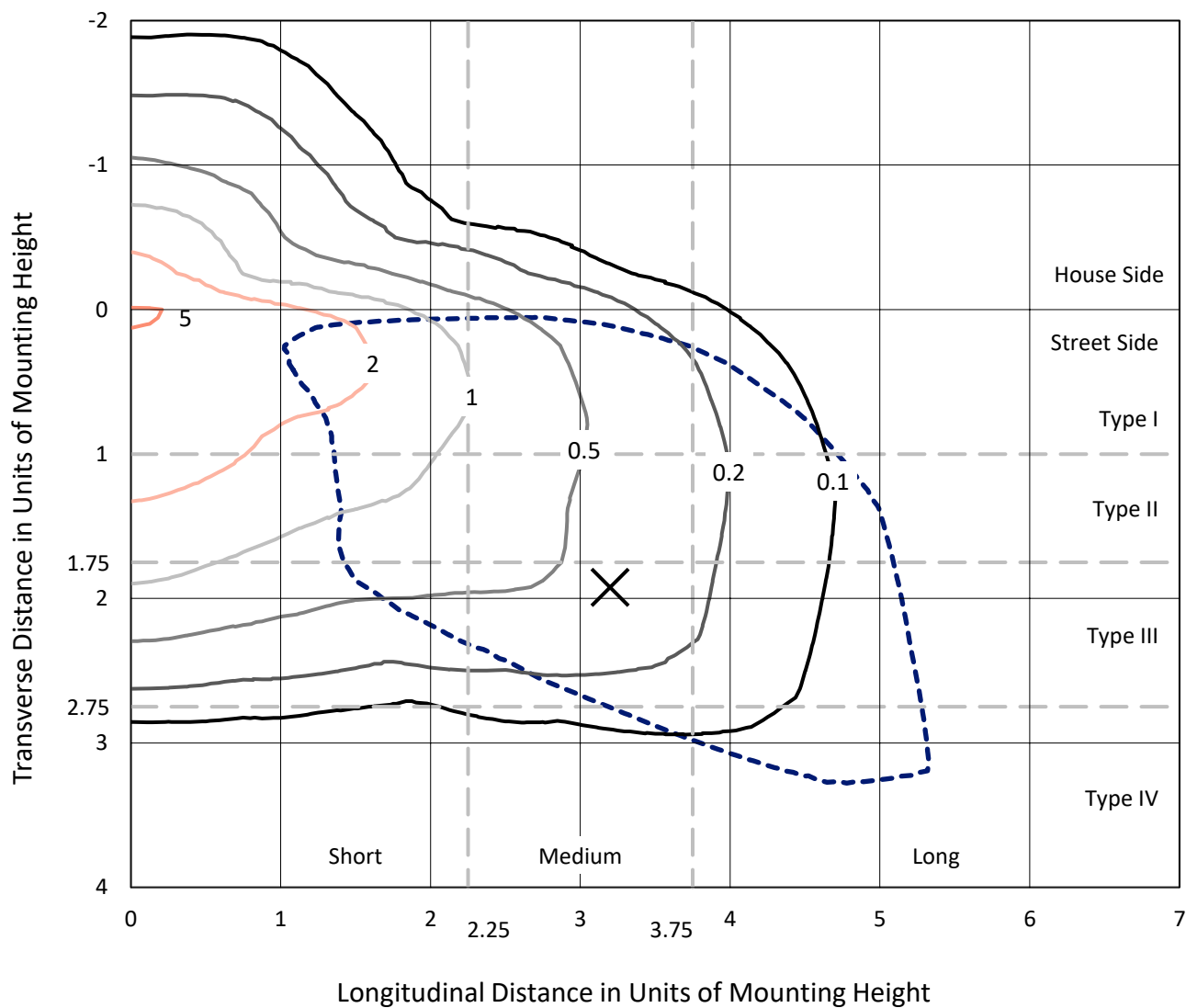
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

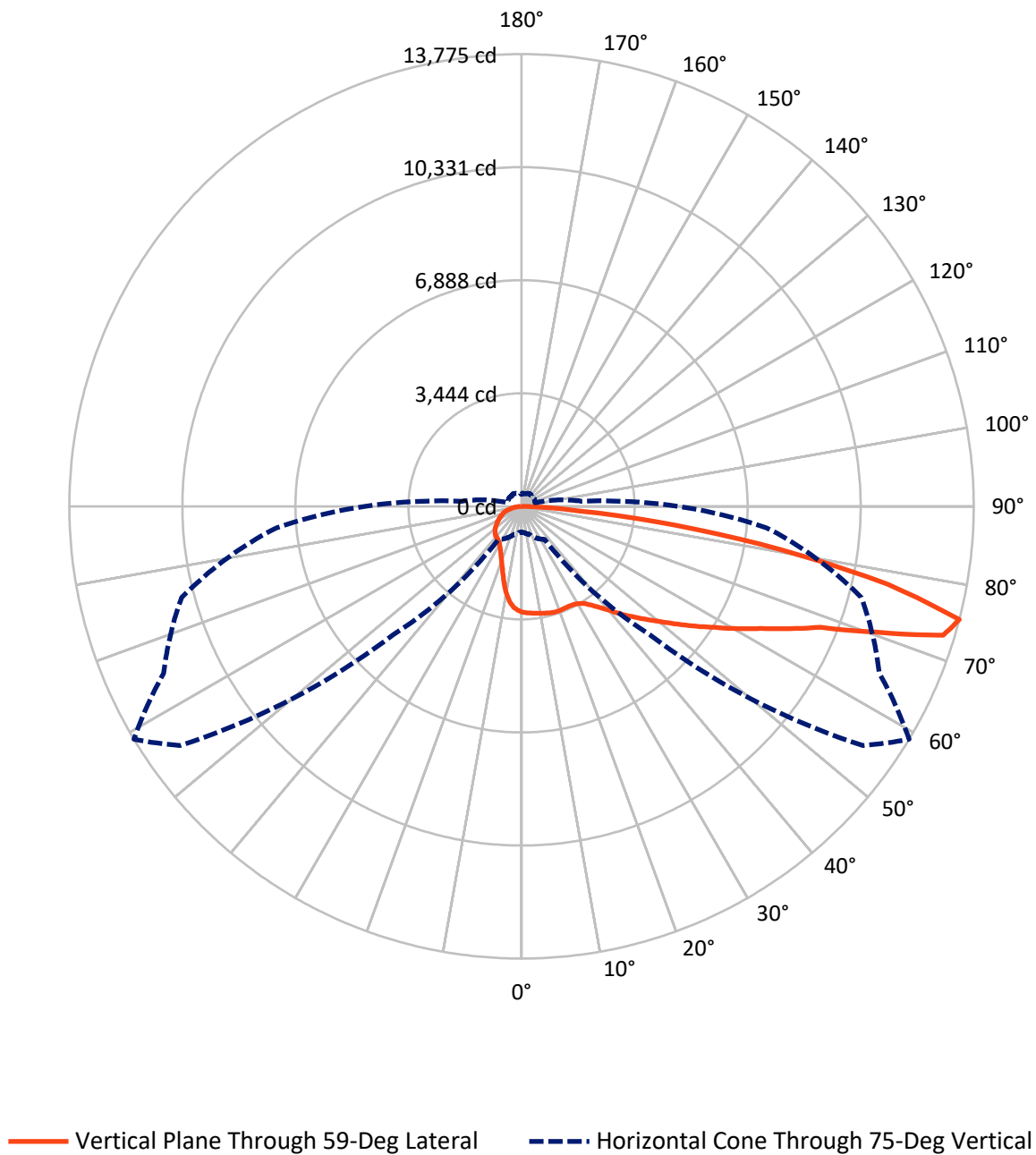


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3295.4	0.0	3295.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14274.6	0.0	14274.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	17570.0	0.0	17570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.6
10°-20°	739.1	4.2
20°-30°	1122.7	6.4
30°-40°	1668.8	9.5
40°-50°	2481.8	14.1
50°-60°	3368.8	19.2
60°-70°	4112.8	23.4
70°-80°	3227.6	18.4
80°-90°	559.1	3.2
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°	17570.0	100.0
0°-180°	17570.0	100.0

Coefficient of Utilization



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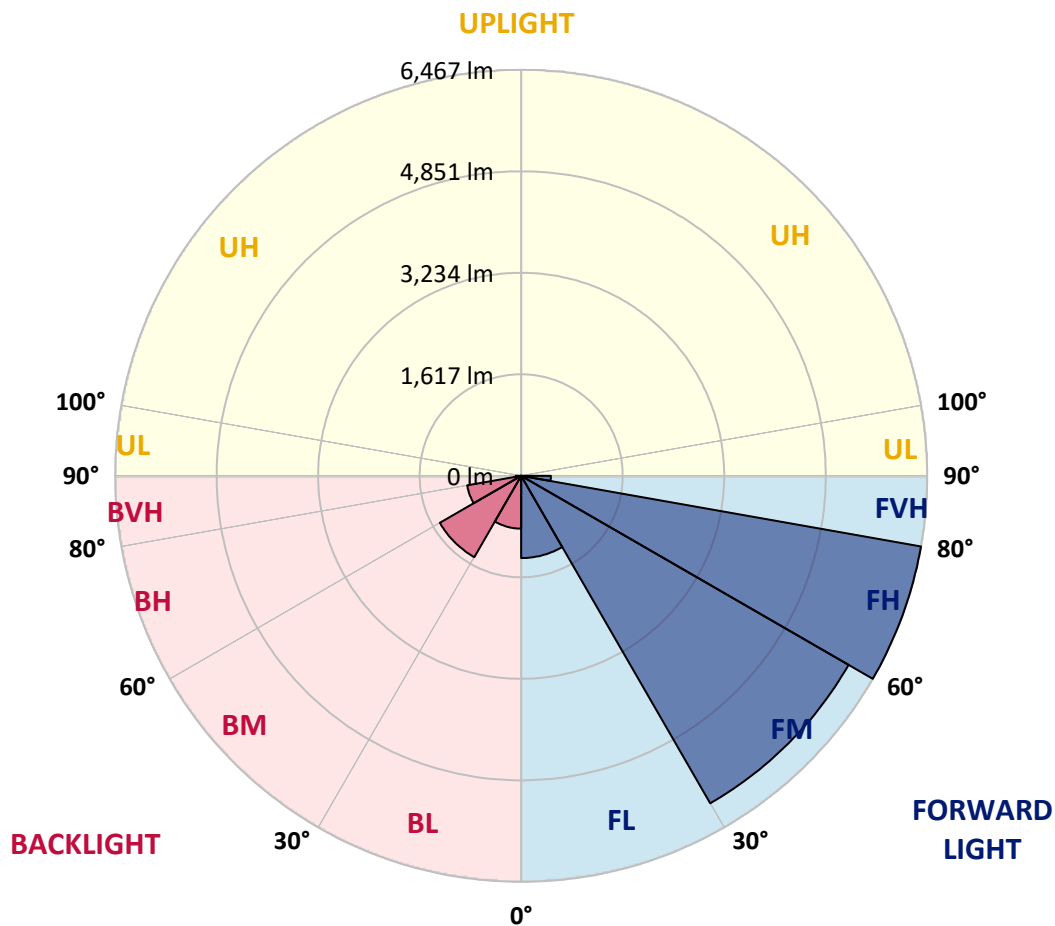
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.0	7.5			
FM	(30°-60°)	6023.7	34.3			
FH	(60°-80°)	6467.3	36.8			G3/7500
FVH	(80°-90°)	473.5	2.7			G3/500
BL	(0°-30°)	840.9	4.8	B2/1000		
BM	(30°-60°)	1495.8	8.5	B2/2500		
BH	(60°-80°)	873.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	85.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9
2.5°	3252.3	3241.0	3252.3	3247.6	3245.7	3241.9	3242.9	3249.5	3245.7	3250.5	3234.4
5°	3230.6	3224.0	3235.3	3232.5	3244.8	3246.7	3259.0	3266.5	3271.2	3272.2	3259.9
7.5°	3194.7	3188.1	3204.1	3217.4	3243.8	3251.4	3276.9	3289.2	3295.8	3307.2	3289.2
10°	3063.3	3060.5	3100.2	3150.3	3212.6	3251.4	3290.2	3310.9	3321.3	3351.6	3330.8
12.5°	2830.8	2834.6	2886.6	2983.0	3107.7	3232.5	3305.3	3335.5	3351.6	3389.4	3379.9
15°	2608.7	2607.7	2664.4	2767.5	2942.3	3149.3	3312.8	3364.8	3392.2	3448.0	3440.4
17.5°	2480.1	2476.4	2516.1	2594.5	2757.1	3021.7	3293.9	3380.9	3439.5	3509.4	3502.8
20°	2456.5	2448.9	2469.7	2508.5	2623.8	2881.8	3244.8	3380.9	3477.3	3568.0	3564.3
22.5°	2542.5	2530.2	2521.7	2517.0	2568.0	2766.5	3189.0	3369.5	3533.1	3652.2	3645.5
25°	2715.5	2696.6	2653.1	2610.6	2595.4	2714.5	3139.9	3366.7	3616.2	3765.6	3741.0
27.5°	2995.3	2971.6	2883.7	2781.6	2690.0	2741.0	3118.1	3383.7	3707.9	3885.6	3836.5
30°	3342.1	3316.6	3206.0	3049.1	2884.7	2839.3	3145.5	3433.8	3825.1	4045.3	3948.9
32.5°	3653.1	3624.7	3530.2	3370.5	3148.4	3009.4	3232.5	3529.3	4009.4	4267.5	4118.1
35°	3929.1	3896.0	3810.9	3663.5	3471.6	3248.6	3389.4	3698.5	4271.2	4628.5	4347.8
37.5°	4199.4	4160.7	4068.0	3912.1	3777.9	3567.1	3605.8	3915.9	4619.1	5067.1	4652.1
40°	4501.9	4446.1	4333.6	4179.6	4049.1	3940.4	3890.3	4182.4	4972.6	5556.7	5032.1
42.5°	4794.9	4741.9	4607.7	4476.3	4312.8	4281.6	4220.2	4494.3	5359.1	6094.5	5417.7
45°	5110.6	5047.2	4884.7	4718.3	4615.3	4508.5	4539.7	4806.2	5738.2	6642.7	5822.3
47.5°	5406.4	5335.5	5143.6	4958.4	4901.7	4699.4	4832.7	5149.3	6132.3	7198.4	6223.0
50°	5566.1	5496.2	5336.5	5169.2	5124.7	4934.8	5150.3	5526.4	6545.3	7752.3	6607.7
52.5°	5699.4	5623.8	5414.9	5322.3	5309.0	5190.9	5541.6	5957.4	6958.4	8241.9	6979.2
55°	5841.2	5757.1	5490.5	5407.3	5467.8	5478.2	6005.6	6446.1	7395.0	8719.2	7329.8
57.5°	6004.7	5897.9	5563.3	5479.2	5622.8	5814.7	6538.7	6952.7	7824.2	9161.6	7641.7
60°	6158.8	6051.0	5703.2	5593.5	5790.1	6205.1	7150.2	7566.1	8310.0	9555.7	7936.6
62.5°	6189.0	6100.2	5814.7	5813.8	6017.0	6660.6	7874.2	8185.2	8734.4	9945.1	8201.3
65°	5665.4	5609.6	5440.4	5805.3	6342.1	7316.6	8680.5	8977.3	9274.0	10285.4	8433.8
67.5°	4311.9	4319.4	4307.2	5011.3	6079.4	8258.9	9847.8	9825.1	9940.4	10667.2	8701.3
70°	1971.6	2016.1	2305.3	3459.3	4870.5	8367.6	11777.8	11483.9	10776.9	11161.6	8932.8
72.5°	1065.2	1099.2	1217.4	1675.8	2928.1	7439.5	13220.2	13429.0	11889.3	11494.3	8678.6
75°	781.7	800.6	882.8	1065.2	1229.7	5529.3	12703.1	13775.0	12028.3	10718.3	7494.3
77.5°	585.1	593.6	660.7	844.0	629.5	2914.9	10150.2	11408.3	10296.7	8806.2	5535.9
80°	424.4	433.8	483.9	633.3	441.4	1066.2	6969.7	8007.5	7051.9	5613.4	2759.0
82.5°	293.0	296.8	318.5	431.0	308.1	414.0	3954.6	4695.6	3936.7	1969.7	744.8
85°	176.7	181.5	190.9	251.4	174.9	196.6	1707.0	1765.6	1176.7	470.7	231.6
87.5°	72.8	77.5	85.1	105.9	69.0	54.8	281.7	353.5	220.2	138.0	71.8
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°	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9	3224.9
2.5°	3229.7	3223.0	3205.1	3180.5	3157.8	3129.5	3117.2	3106.8	3097.3	3079.4	3070.9
5°	3249.5	3231.6	3183.3	3121.0	3050.1	2972.6	2897.0	2845.0	2800.6	2767.5	2740.1
7.5°	3279.8	3245.7	3157.8	3030.2	2867.7	2701.3	2551.0	2444.2	2363.9	2334.6	2283.5
10°	3310.9	3270.3	3117.2	2892.2	2611.5	2355.4	2155.9	2046.3	1982.0	1961.2	1929.1
12.5°	3347.8	3288.3	3053.9	2700.4	2325.1	2044.4	1870.5	1806.2	1773.1	1761.8	1764.6
15°	3401.7	3303.4	2958.4	2460.3	2052.0	1817.6	1705.1	1660.7	1643.7	1642.7	1646.5
17.5°	3442.3	3306.2	2810.0	2203.2	1842.1	1680.5	1587.9	1570.9	1582.2	1599.2	1605.9
20°	3487.7	3280.7	2615.3	1968.8	1694.7	1560.5	1521.7	1533.1	1560.5	1585.1	1593.6
22.5°	3519.8	3234.4	2379.9	1786.4	1567.1	1491.5	1489.6	1513.2	1528.3	1540.6	1547.3
25°	3548.2	3155.9	2130.4	1633.3	1462.2	1449.9	1470.7	1463.1	1452.7	1463.1	1469.7
27.5°	3569.0	3032.1	1907.4	1499.0	1388.5	1421.5	1409.3	1392.2	1391.3	1397.0	1406.4
30°	3562.4	2866.7	1724.0	1371.4	1336.5	1368.6	1339.3	1336.5	1333.6	1336.5	1346.9
32.5°	3562.4	2678.6	1583.2	1283.5	1303.4	1291.1	1288.3	1281.7	1270.3	1269.4	1281.7
35°	3582.2	2490.5	1462.2	1236.3	1276.0	1246.7	1248.6	1232.5	1208.9	1197.5	1208.9
37.5°	3622.9	2339.3	1342.1	1213.6	1227.8	1226.8	1219.3	1191.9	1150.3	1114.4	1126.6
40°	3721.2	2294.9	1259.9	1203.2	1205.1	1216.4	1196.6	1143.7	1049.1	990.5	998.1
42.5°	3875.2	2369.6	1242.0	1177.7	1190.0	1201.3	1162.6	1039.7	972.6	937.6	937.6
45°	4070.9	2500.0	1280.7	1140.8	1154.1	1173.9	1058.6	1000.0	969.7	970.7	975.4
47.5°	4318.5	2637.0	1352.5	1108.7	1102.1	1113.4	989.6	953.7	912.1	922.5	949.0
50°	4604.9	2776.0	1420.6	1065.2	1044.4	1007.6	945.2	911.1	858.2	833.6	840.3
52.5°	4914.9	2910.2	1448.0	1012.3	982.0	939.5	914.9	873.3	809.1	768.4	767.5
55°	5208.9	3032.1	1417.8	949.0	919.7	886.6	882.8	857.3	788.3	731.6	731.6
57.5°	5486.7	3134.2	1342.1	884.7	856.3	836.5	862.0	849.7	762.8	690.0	686.2
60°	5722.1	3204.1	1232.5	819.5	799.6	789.2	828.0	824.2	726.8	645.6	642.7
62.5°	5909.2	3231.6	1111.5	757.1	752.4	733.5	780.7	780.7	681.5	602.1	599.2
65°	6055.7	3205.1	988.7	695.6	705.1	676.7	723.1	717.4	633.3	563.3	559.5
67.5°	6185.2	3118.1	852.5	635.2	656.9	621.0	662.6	649.3	580.3	524.6	520.8
70°	6242.9	2915.9	697.5	574.7	601.1	566.2	602.1	577.5	520.8	483.0	475.4
72.5°	5779.7	2423.4	549.1	511.3	534.0	505.7	536.9	508.5	456.5	439.5	425.3
75°	4781.6	1818.5	422.5	442.3	459.4	437.6	458.4	437.6	390.4	402.6	367.7
77.5°	3472.6	1227.8	323.2	369.6	377.1	365.8	383.7	360.1	317.6	314.7	300.6
80°	1726.8	719.3	253.3	292.1	289.2	281.7	302.5	291.1	255.2	270.3	267.5
82.5°	500.0	308.1	184.3	205.1	199.4	201.3	216.4	222.1	332.7	329.9	337.4
85°	156.9	121.0	110.6	114.4	108.7	111.5	127.6	253.3	234.4	137.1	148.4
87.5°	40.6	41.6	27.4	29.3	30.2	35.9	40.6	154.1	73.7	48.2	51.0
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)