

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: P954829

Luminaire Tested: **GALN-SB8A-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954829
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-SB8A-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30475 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 227.1
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

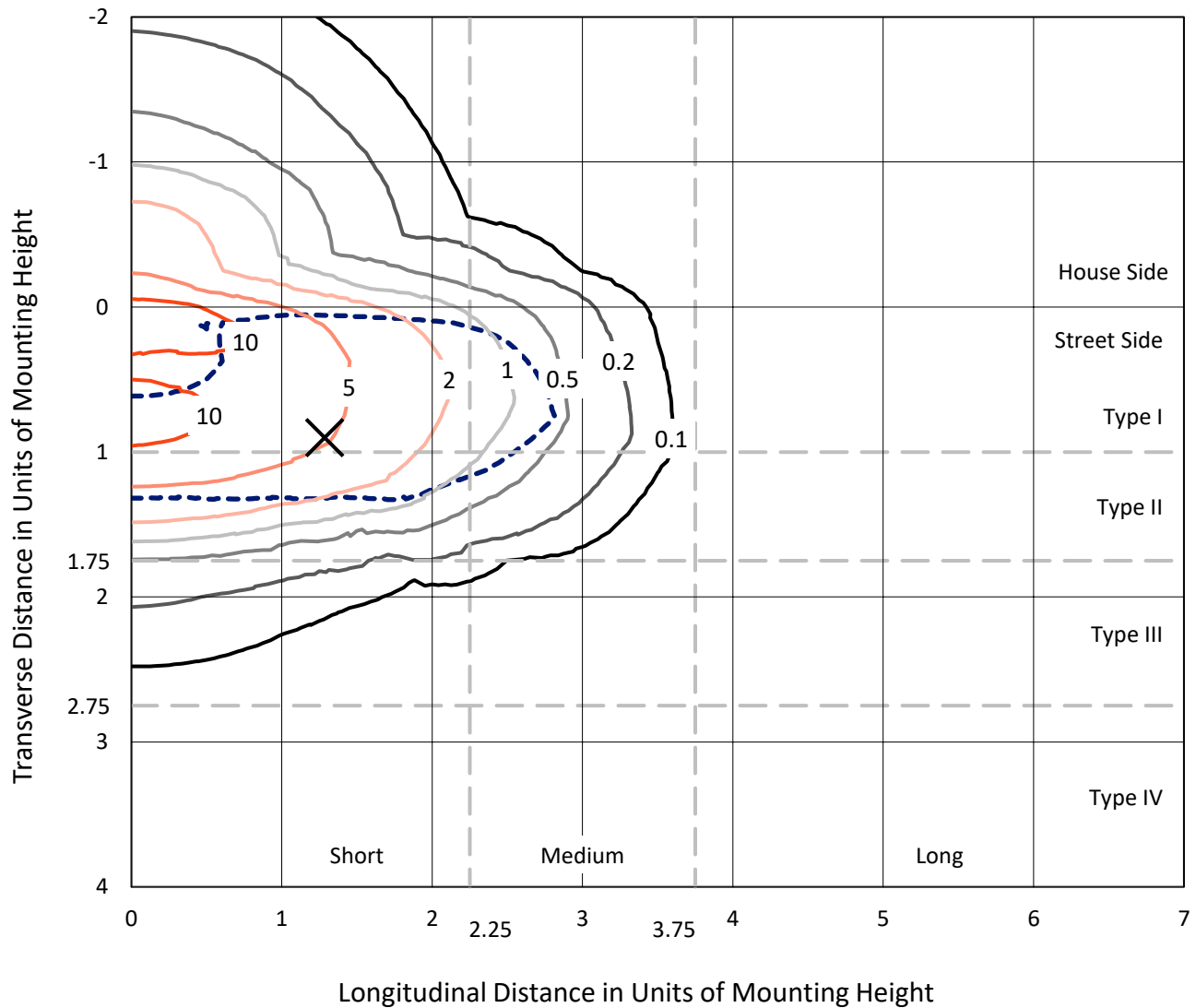


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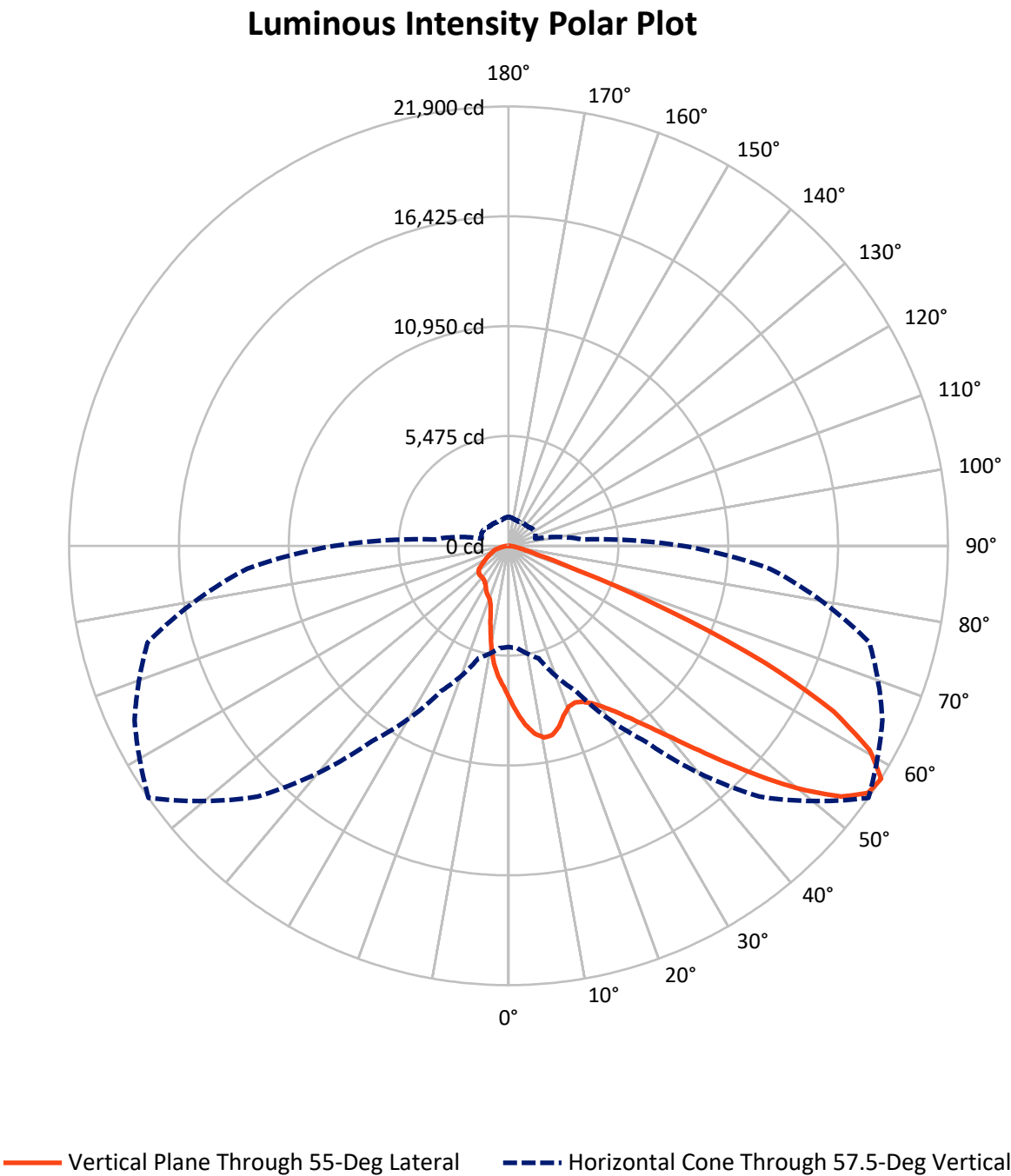
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5514.3	0.0	5514.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24960.7	0.0	24960.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	30475.0	0.0	30475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.6	2.3
10°-20°	1788.5	5.9
20°-30°	2853.9	9.4
30°-40°	4518.5	14.8
40°-50°	6916.0	22.7
50°-60°	7407.6	24.3
60°-70°	4660.2	15.3
70°-80°	1378.1	4.5
80°-90°	243.7	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°	30475.0	100.0
0°-180°	30475.0	100.0

Coefficient of Utilization



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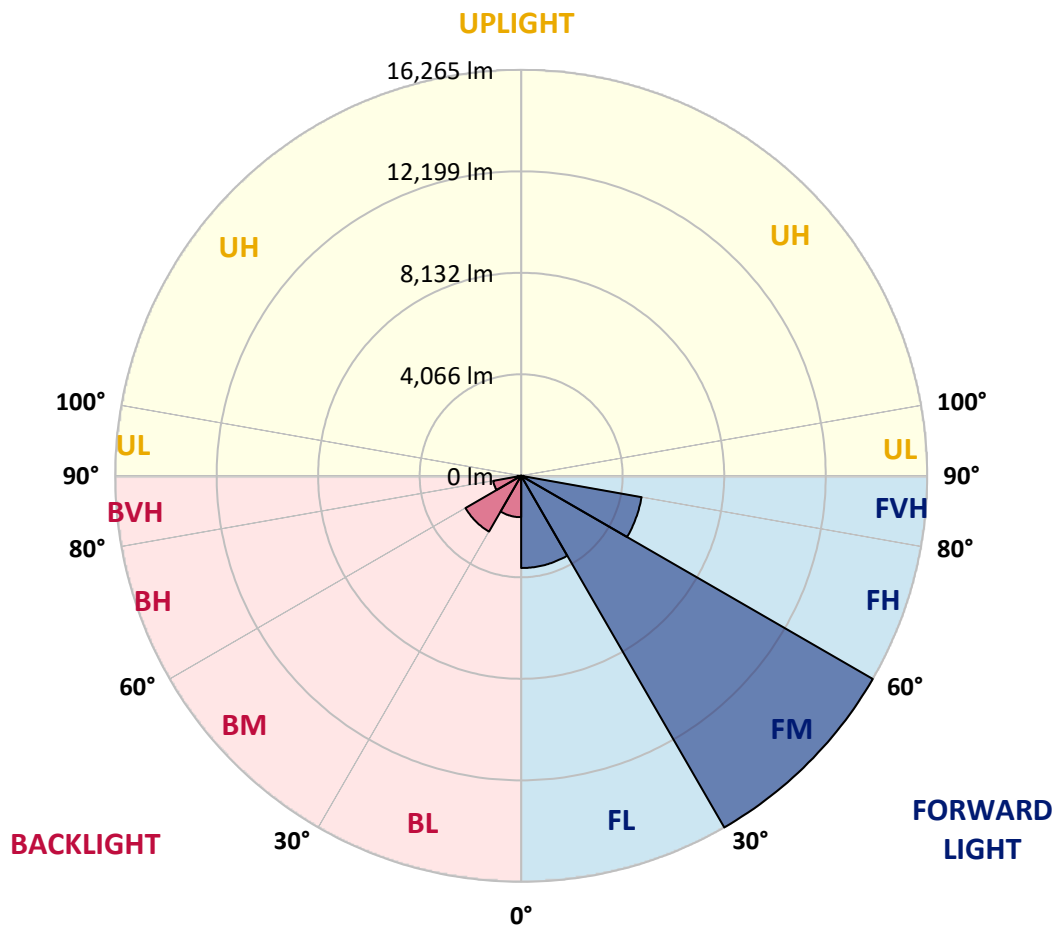
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3693.6	12.1			
FM	(30°-60°)	16264.7	53.4			
FH	(60°-80°)	4899.5	16.1			G2/5000
FVH	(80°-90°)	102.9	0.3			G2/225
BL	(0°-30°)	1657.4	5.4	B3/2500		
BM	(30°-60°)	2577.3	8.5	B3/5000		
BH	(60°-80°)	1138.8	3.7	B3/2500		G3/2500
BVH	(80°-90°)	140.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0
2.5°	8760.9	8754.6	8789.3	8671.1	8590.7	8482.0	8338.7	8155.9	7959.0	7751.1	7661.3
5°	9550.2	9495.0	9531.3	9443.0	9354.8	9191.0	8978.3	8680.5	8316.6	7902.3	7681.7
7.5°	9425.7	9387.9	9480.9	9559.6	9625.8	9605.3	9449.4	9137.4	8667.9	8066.1	7746.3
10°	8422.2	8379.6	8510.4	8782.9	9183.1	9531.3	9720.3	9526.5	9027.1	8245.7	7809.3
12.5°	7536.8	7516.3	7603.0	7823.5	8267.8	8935.8	9685.7	9866.8	9400.5	8458.4	7894.4
15°	7158.7	7133.5	7188.6	7300.5	7584.1	8206.3	9370.6	10100.0	9767.6	8704.2	8029.9
17.5°	7075.2	7046.8	7070.5	7128.8	7311.5	7785.7	8894.8	10215.0	10150.4	8978.3	8143.3
20°	7229.6	7206.0	7209.1	7206.0	7333.6	7710.1	8564.0	10170.9	10484.4	9230.4	8253.6
22.5°	7603.0	7563.6	7565.2	7481.7	7551.0	7842.4	8477.3	10052.7	10782.2	9450.9	8337.1
25°	8211.1	8140.2	8154.4	7941.7	7922.8	8138.6	8612.8	9961.4	11078.3	9627.4	8352.9
27.5°	9042.9	8962.5	8920.0	8603.4	8452.1	8559.2	8888.5	9992.9	11358.8	9780.2	8313.5
30°	10082.7	9985.0	9898.3	9449.4	9175.2	9135.8	9317.0	10200.8	11689.6	9940.9	8245.7
32.5°	11357.2	11243.8	11086.2	10490.7	10104.7	9898.3	9871.6	10571.0	12077.1	10145.7	8211.1
35°	12874.3	12726.2	12502.5	11732.1	11243.8	10821.5	10602.6	11105.1	12608.1	10454.5	8250.5
37.5°	14437.1	14270.1	14065.3	13148.4	12548.2	11925.9	11494.2	11829.8	13315.4	10873.5	8354.4
40°	15878.6	15691.2	15500.5	14684.5	14040.1	13290.2	12586.0	12746.7	14180.3	11374.5	8530.9
42.5°	16729.4	16590.7	16518.2	16077.1	15579.3	14818.4	13944.0	13833.7	15152.4	11951.1	8732.5
45°	16691.5	16634.8	16858.5	17041.3	16923.1	16500.9	15535.2	15035.8	16127.5	12450.5	8918.4
47.5°	15799.9	15837.7	16337.1	17364.2	17816.4	18036.9	17346.9	16215.8	16975.1	12823.9	9001.9
50°	13373.7	13405.2	14561.6	16776.6	18046.4	19289.4	19144.5	17367.4	17632.1	13052.3	8983.0
52.5°	11453.3	11473.8	11970.0	15034.2	17287.0	19919.6	20764.0	18452.9	18112.6	13115.3	8877.5
55°	8627.0	8697.9	9254.0	11795.1	15311.5	19420.2	21750.2	19571.4	18416.6	13121.6	8767.2
57.5°	5039.8	5117.0	5803.8	8006.3	11900.7	17679.3	21899.9	20563.9	18623.0	13071.2	8701.0
60°	2468.7	2501.8	2801.1	4207.9	7338.3	14325.3	20696.3	21044.4	18738.0	13044.5	8697.9
62.5°	1663.6	1658.9	1671.5	2076.4	3615.6	9203.6	18188.2	20203.1	18676.6	12942.0	8666.4
65°	1430.5	1413.1	1365.9	1457.3	1873.2	4209.5	14052.7	17691.9	18208.7	12685.3	8450.5
67.5°	1236.7	1238.3	1239.9	1211.5	1337.5	1942.5	8587.6	13936.1	16529.3	11469.0	7618.7
70°	1024.0	1038.2	1044.5	1044.5	1090.2	1274.5	3666.0	9551.8	13038.2	8992.5	6136.2
72.5°	932.6	902.7	905.9	890.1	890.1	970.5	1476.2	5414.7	8214.2	5058.7	3744.8
75°	760.9	779.8	783.0	772.0	735.7	740.4	875.9	2271.8	3514.8	2098.5	1851.1
77.5°	656.9	656.9	663.3	655.4	627.0	554.5	584.5	880.7	1195.7	860.2	924.8
80°	527.8	526.2	553.0	568.7	524.6	409.6	373.4	486.8	530.9	378.1	480.5
82.5°	256.8	272.5	379.7	433.2	398.6	296.2	228.4	302.5	283.6	167.0	215.8
85°	149.7	141.8	170.1	241.0	228.4	163.8	110.3	157.5	148.1	85.1	86.6
87.5°	47.3	44.1	34.7	81.9	66.2	45.7	29.9	45.7	41.0	18.9	18.9
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°	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0	7636.0
2.5°	7549.4	7363.5	7179.2	7010.6	6908.2	6842.0	6775.9	6701.8	6673.5	6630.9
5°	7473.8	7114.6	6794.8	6519.1	6268.6	6071.7	5873.2	5712.5	5640.0	5688.8
7.5°	7429.7	6909.8	6416.7	5911.0	5424.2	5035.0	4696.3	4458.4	4351.3	4378.1
10°	7390.3	6678.2	5926.7	5128.0	4428.5	3946.4	3599.8	3418.7	3350.9	3365.1
12.5°	7354.0	6418.2	5335.9	4285.1	3541.5	3223.3	3124.1	3125.6	3138.2	3147.7
15°	7347.7	6104.7	4675.8	3547.8	3062.6	3042.1	3149.3	3217.0	3253.2	3264.3
17.5°	7338.3	5729.8	4003.1	3045.3	2946.0	3084.7	3183.9	3228.0	3256.4	3258.0
20°	7300.5	5254.0	3382.4	2805.8	2920.8	3040.6	3102.0	3136.7	3160.3	3168.2
22.5°	7183.9	4724.7	2898.8	2698.7	2820.0	2916.1	2988.6	3028.0	3042.1	3051.6
25°	6974.4	4132.3	2564.8	2596.3	2679.8	2801.1	2859.4	2867.3	2862.5	2876.7
27.5°	6700.2	3497.4	2356.8	2457.7	2564.8	2668.8	2700.3	2695.5	2686.1	2701.8
30°	6369.4	2927.1	2224.5	2301.7	2448.2	2542.7	2571.1	2560.1	2541.1	2558.5
32.5°	6019.7	2460.8	2115.8	2193.0	2352.1	2445.0	2473.4	2462.4	2448.2	2462.4
35°	5693.6	2134.7	2015.0	2120.5	2276.5	2367.9	2404.1	2405.7	2405.7	2423.0
37.5°	5394.2	1944.1	1931.5	2074.8	2224.5	2306.4	2358.4	2361.5	2293.8	2298.5
40°	5117.0	1863.7	1893.7	2044.9	2174.1	2252.8	2256.0	2079.6	1955.1	1951.9
42.5°	4890.1	1848.0	1904.7	2041.7	2137.8	2141.0	1918.9	1781.8	1747.1	1748.7
45°	4677.4	1843.2	1929.9	2041.7	2084.3	1849.5	1699.9	1663.6	1666.8	1679.4
47.5°	4439.5	1824.3	1934.6	2013.4	1929.9	1644.7	1600.6	1584.9	1578.6	1581.7
50°	4179.6	1756.6	1874.7	1956.7	1665.2	1556.5	1501.4	1496.6	1504.5	1509.2
52.5°	3905.5	1646.3	1772.3	1854.3	1543.9	1479.3	1417.9	1428.9	1463.6	1474.6
55°	3725.9	1517.1	1636.9	1649.5	1458.8	1406.8	1354.9	1380.1	1444.7	1465.1
57.5°	3678.6	1380.1	1482.5	1468.3	1350.1	1343.8	1312.3	1334.4	1416.3	1446.2
60°	3664.4	1257.2	1331.2	1320.2	1244.6	1274.5	1266.6	1277.7	1306.0	1315.5
62.5°	3554.1	1159.5	1195.7	1180.0	1150.1	1202.0	1220.9	1197.3	1219.4	1230.4
65°	3273.7	1080.7	1063.4	1052.4	1065.0	1112.2	1150.1	1102.8	1123.3	1154.8
67.5°	2810.5	973.6	926.3	938.9	978.3	1003.5	1052.4	998.8	1016.1	1069.7
70°	2273.3	838.1	795.6	831.8	869.6	921.6	929.5	893.3	934.2	994.1
72.5°	1608.5	701.1	671.1	745.2	757.8	825.5	808.2	790.9	847.6	868.1
75°	1115.4	565.6	548.2	605.0	650.6	708.9	696.3	716.8	836.5	846.0
77.5°	705.8	439.5	428.5	464.7	527.8	592.4	612.8	846.0	1428.9	1485.6
80°	409.6	327.7	315.1	343.4	398.6	458.4	590.8	1038.2	942.1	931.1
82.5°	228.4	225.3	209.5	217.4	266.2	330.8	835.0	731.0	593.9	612.8
85°	107.1	132.3	113.4	108.7	149.7	387.6	557.7	417.5	277.3	271.0
87.5°	28.4	25.2	25.2	28.4	63.0	334.0	222.1	178.0	105.6	102.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)