

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: P950201

Luminaire Tested: **GALN-SB4D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34142 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 293.6
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

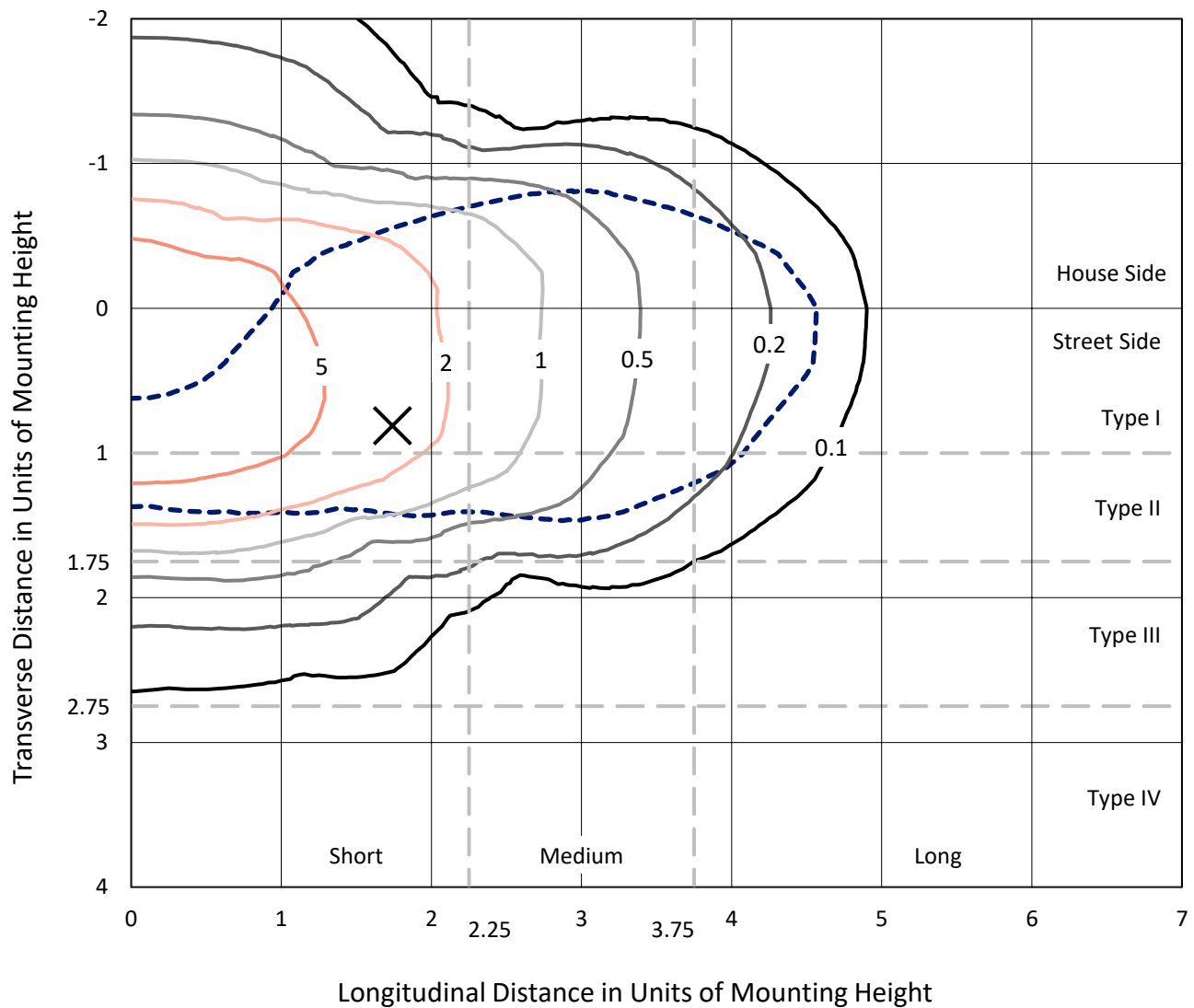


REPORT NUMBER: P950201

CATALOG NUMBER: GALN-SB4D-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

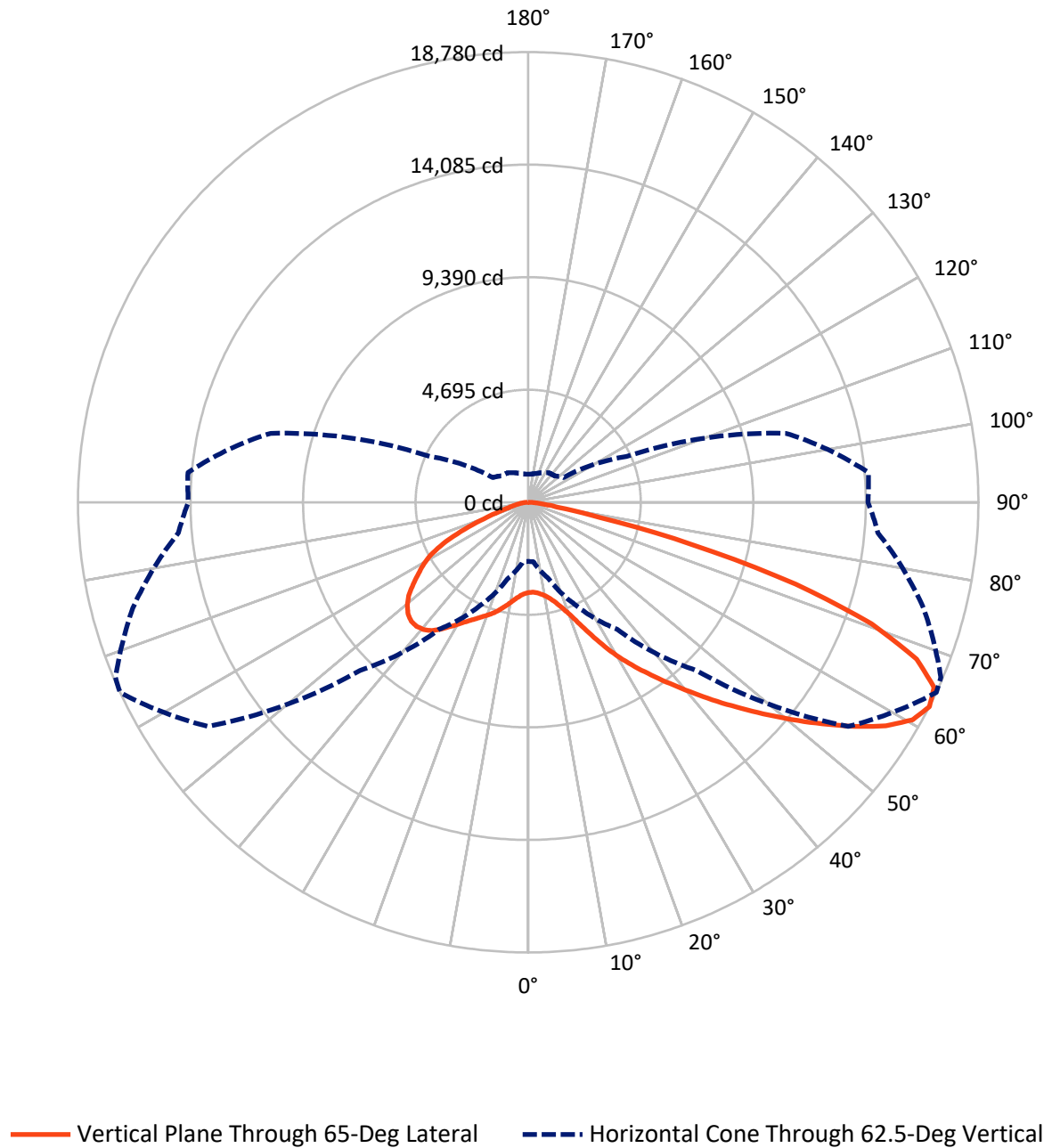
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Short - N/A

REPORT NUMBER: P950201
CATALOG NUMBER: GALN-SB4D-722-U-T2U

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10773.7	0.0	10773.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	23368.3	0.0	23368.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	34142.0	0.0	34142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.1	1.1
10°-20°	1272.0	3.7
20°-30°	2579.1	7.6
30°-40°	4463.1	13.1
40°-50°	6754.0	19.8
50°-60°	7918.6	23.2
60°-70°	6638.8	19.4
70°-80°	3665.2	10.7
80°-90°	476.1	1.4
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°	34142.0	100.0
0°-180°	34142.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950201

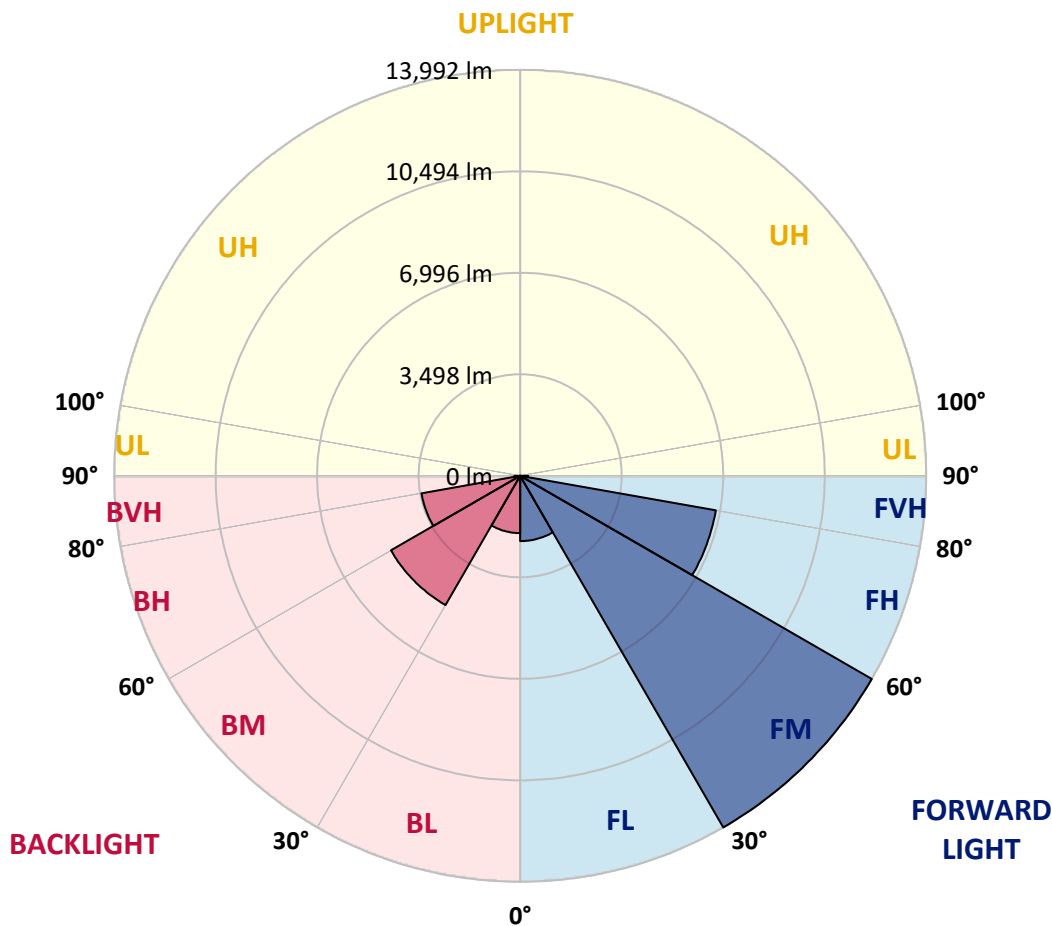
CATALOG NUMBER: GALN-SB4D-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.4	6.6			
FM	(30°-60°)	13992.5	41.0			
FH	(60°-80°)	6847.9	20.1			G3/7500
FVH	(80°-90°)	277.5	0.8			G3/500
BL	(0°-30°)	1975.8	5.8	B3/2500		
BM	(30°-60°)	5143.2	15.1	B4/8500		
BH	(60°-80°)	3456.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	198.6	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P950201

CATALOG NUMBER: GALN-SB4D-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3
2.5°	3737.5	3726.9	3735.7	3735.7	3739.3	3737.5	3749.9	3753.4	3758.8	3769.4	3769.4
5°	3700.3	3698.5	3714.5	3728.6	3742.8	3755.2	3771.2	3794.2	3797.7	3810.1	3826.1
7.5°	3687.9	3677.3	3702.1	3719.8	3753.4	3783.6	3826.1	3865.0	3881.0	3886.3	3916.4
10°	3783.6	3765.8	3788.9	3799.5	3827.8	3858.0	3907.5	3969.5	3987.3	4008.5	4042.2
12.5°	3946.5	3927.0	3960.7	3976.6	4003.2	4029.8	4063.4	4123.7	4132.5	4171.5	4203.4
15°	4169.7	4146.7	4167.9	4187.4	4231.7	4256.5	4290.2	4348.6	4348.6	4378.7	4401.7
17.5°	4472.6	4442.5	4458.4	4465.5	4493.9	4531.1	4587.7	4639.1	4665.7	4655.0	4623.2
20°	4924.3	4887.1	4887.1	4851.7	4841.0	4871.2	4945.5	5016.4	5044.7	4989.8	4911.9
22.5°	5602.7	5549.6	5519.5	5399.0	5351.2	5354.7	5429.1	5515.9	5538.9	5441.5	5266.2
25°	6465.3	6382.1	6341.4	6164.2	6056.2	5962.3	6020.7	6132.3	6164.2	6043.8	5760.4
27.5°	7328.0	7333.3	7294.3	7081.8	6902.9	6731.0	6700.9	6817.8	6851.5	6715.1	6364.4
30°	8537.8	8412.0	8337.6	8082.6	7827.5	7586.6	7462.6	7510.4	7519.3	7356.3	6948.9
32.5°	9581.1	9549.2	9389.8	9166.6	8838.9	8461.6	8254.4	8178.2	8164.1	7932.0	7448.4
35°	10769.7	10752.0	10583.7	10318.0	9963.7	9439.4	9065.7	8847.8	8830.1	8504.1	7942.6
37.5°	11977.7	11977.7	11813.0	11522.5	11155.8	10500.4	9931.8	9586.4	9529.7	9104.6	8445.7
40°	12941.3	12882.9	12913.0	12790.8	12371.0	11674.8	10893.7	10392.4	10316.2	9806.1	8980.6
42.5°	13488.7	13469.2	13649.9	13786.2	13614.4	13058.2	11952.9	11265.6	11159.4	10578.4	9597.1
45°	13610.9	13589.6	13912.0	14411.5	14652.4	14423.9	13104.3	12185.0	12055.7	11386.1	10257.8
47.5°	13329.2	13286.7	13759.7	14547.9	15320.2	15722.3	14351.3	13182.2	12994.5	12172.6	10936.2
50°	12482.5	12441.8	13157.4	14204.3	15545.2	16604.4	15704.6	14239.7	13952.7	13015.7	11621.7
52.5°	10642.1	10661.6	11782.9	13221.2	15249.4	17153.5	16870.1	15353.9	15008.5	13878.4	12264.7
55°	8289.8	8332.3	9710.4	11294.0	14066.1	17070.3	17665.5	16501.7	16158.1	14689.6	12928.9
57.5°	5935.7	6123.5	7414.8	8982.4	11793.5	15750.6	17839.0	17592.8	17259.8	15575.3	13579.0
60°	3847.3	3881.0	5209.5	6789.5	8980.6	13405.4	17486.5	18420.0	18159.7	16478.7	14122.8
62.5°	2465.7	2488.7	3298.2	4748.9	6463.6	9917.7	16299.8	18779.6	18699.9	17075.6	14645.3
65°	1812.1	1794.4	2215.9	3138.8	4353.9	6116.4	13995.3	18606.0	18763.7	17449.4	15077.5
67.5°	1512.7	1487.9	1695.2	2173.4	3207.9	3473.6	10355.2	17477.7	18055.1	17406.8	15394.6
70°	1378.1	1356.8	1482.6	1613.7	2502.9	2325.8	5220.1	15194.5	16083.7	16923.3	15343.2
72.5°	1167.3	1130.1	1301.9	1433.0	1946.7	1783.7	2157.5	11671.3	12755.3	15373.4	14620.5
75°	905.1	880.3	1027.4	1261.2	1463.1	1392.3	1363.9	7087.1	8270.3	11889.2	12790.8
77.5°	717.4	683.7	818.4	983.1	1316.1	1050.4	993.7	3052.0	4224.6	7590.1	9570.5
80°	540.3	510.1	621.7	777.6	1011.4	791.8	643.0	1245.2	1592.4	3845.6	4812.7
82.5°	384.4	357.8	434.0	570.4	680.2	710.3	395.0	697.9	784.7	1482.6	1075.2
85°	246.2	230.3	290.5	357.8	432.2	457.0	240.9	364.9	400.3	611.1	448.1
87.5°	134.6	109.8	155.9	166.5	200.2	182.4	115.1	132.8	143.5	221.4	189.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950201

CATALOG NUMBER: GALN-SB4D-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3	3762.3
2.5°	3776.5	3781.8	3799.5	3804.8	3817.2	3833.2	3843.8	3854.4	3854.4	3865.0	3865.0
5°	3827.8	3840.2	3877.4	3896.9	3928.8	3960.7	3980.2	4003.2	4017.4	4024.5	4028.0
7.5°	3927.0	3946.5	3999.7	4033.3	4088.2	4132.5	4162.6	4194.5	4201.6	4221.1	4214.0
10°	4061.7	4084.7	4144.9	4208.7	4274.2	4329.1	4357.5	4380.5	4389.4	4392.9	4384.0
12.5°	4215.8	4249.4	4327.4	4405.3	4474.4	4522.2	4529.3	4524.0	4499.2	4477.9	4477.9
15°	4405.3	4435.4	4522.2	4607.2	4674.5	4683.4	4639.1	4610.8	4580.7	4575.3	4575.3
17.5°	4632.0	4648.0	4727.7	4810.9	4816.2	4786.1	4720.6	4694.0	4665.7	4646.2	4648.0
20°	4896.0	4890.6	4947.3	4982.7	4945.5	4853.4	4754.2	4710.0	4681.6	4658.6	4660.4
22.5°	5211.2	5170.5	5163.4	5154.6	5055.4	4862.3	4727.7	4671.0	4626.7	4594.8	4605.5
25°	5670.0	5514.1	5406.1	5345.9	5122.7	4814.5	4642.7	4516.9	4433.6	4378.7	4400.0
27.5°	6243.9	5981.8	5709.0	5562.0	5122.7	4717.0	4437.2	4233.5	4097.1	4040.4	4068.7
30°	6791.3	6516.7	6114.6	5822.4	5110.3	4557.6	4105.9	3822.5	3663.1	3606.4	3640.1
32.5°	7258.9	6959.5	6545.1	6107.5	5080.2	4299.0	3695.0	3381.5	3227.4	3160.0	3193.7
35°	7692.9	7374.0	6977.3	6421.1	5000.5	3919.9	3243.3	3004.2	2832.4	2724.3	2759.7
37.5°	8137.5	7758.4	7386.4	6704.5	4857.0	3477.1	2896.1	2692.4	2490.5	2345.2	2384.2
40°	8621.1	8167.6	7824.0	6872.8	4621.4	3055.5	2626.9	2440.9	2226.6	2072.5	2102.6
42.5°	9186.1	8658.3	8311.1	6959.5	4299.0	2756.2	2451.5	2269.1	2067.1	1941.4	1966.2
45°	9776.0	9198.5	8755.7	6957.8	3939.4	2616.3	2394.8	2214.2	1991.0	1859.9	1881.2
47.5°	10394.2	9763.6	9140.1	6844.4	3627.7	2635.7	2363.0	2095.5	1849.3	1721.7	1739.4
50°	11014.1	10381.8	9512.0	6631.9	3494.8	2593.2	2244.3	1929.0	1638.5	1523.3	1530.4
52.5°	11628.8	11038.9	9832.6	6329.0	3360.2	2435.6	2091.9	1712.9	1551.7	1472.0	1472.0
55°	12247.0	11689.0	10181.6	5887.9	3023.7	2251.4	1836.9	1631.4	1482.6	1410.0	1402.9
57.5°	12866.9	12440.0	10512.8	5446.8	2600.3	2024.6	1696.9	1532.2	1413.5	1351.5	1340.9
60°	13511.7	13299.1	10854.7	5041.2	2182.3	1734.1	1594.2	1452.5	1332.0	1263.0	1257.6
62.5°	14175.9	14245.0	11122.2	4518.7	1797.9	1557.0	1502.1	1356.8	1239.9	1174.4	1172.6
65°	14845.5	15157.3	11297.5	3794.2	1457.8	1388.7	1402.9	1252.3	1133.6	1077.0	1075.2
67.5°	15350.3	15814.4	11247.9	2871.3	1195.6	1229.3	1278.9	1142.5	1030.9	986.6	988.4
70°	15407.0	15736.5	10759.0	1966.2	1000.8	1073.4	1140.7	1034.5	919.3	887.4	889.2
72.5°	14652.4	14673.7	9396.9	1284.2	846.7	942.3	995.5	924.6	813.0	781.2	779.4
75°	12673.9	12135.4	6899.3	846.7	708.5	809.5	859.1	809.5	701.4	708.5	683.7
77.5°	9602.4	8594.5	4189.2	602.3	591.6	680.2	747.5	712.1	620.0	696.1	612.9
80°	4947.3	4649.7	1868.8	449.9	467.6	543.8	614.7	568.6	490.7	467.6	426.9
82.5°	1133.6	1317.9	736.9	322.4	338.3	391.5	469.4	426.9	352.5	297.6	294.0
85°	396.8	434.0	325.9	201.9	198.4	244.4	318.8	285.2	239.1	191.3	201.9
87.5°	125.8	164.7	122.2	81.5	85.0	109.8	147.0	134.6	111.6	72.6	76.2
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)