

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: P957341

Luminaire Tested: **GALN-SB9D-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957341
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-SB9D-722-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 77594 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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



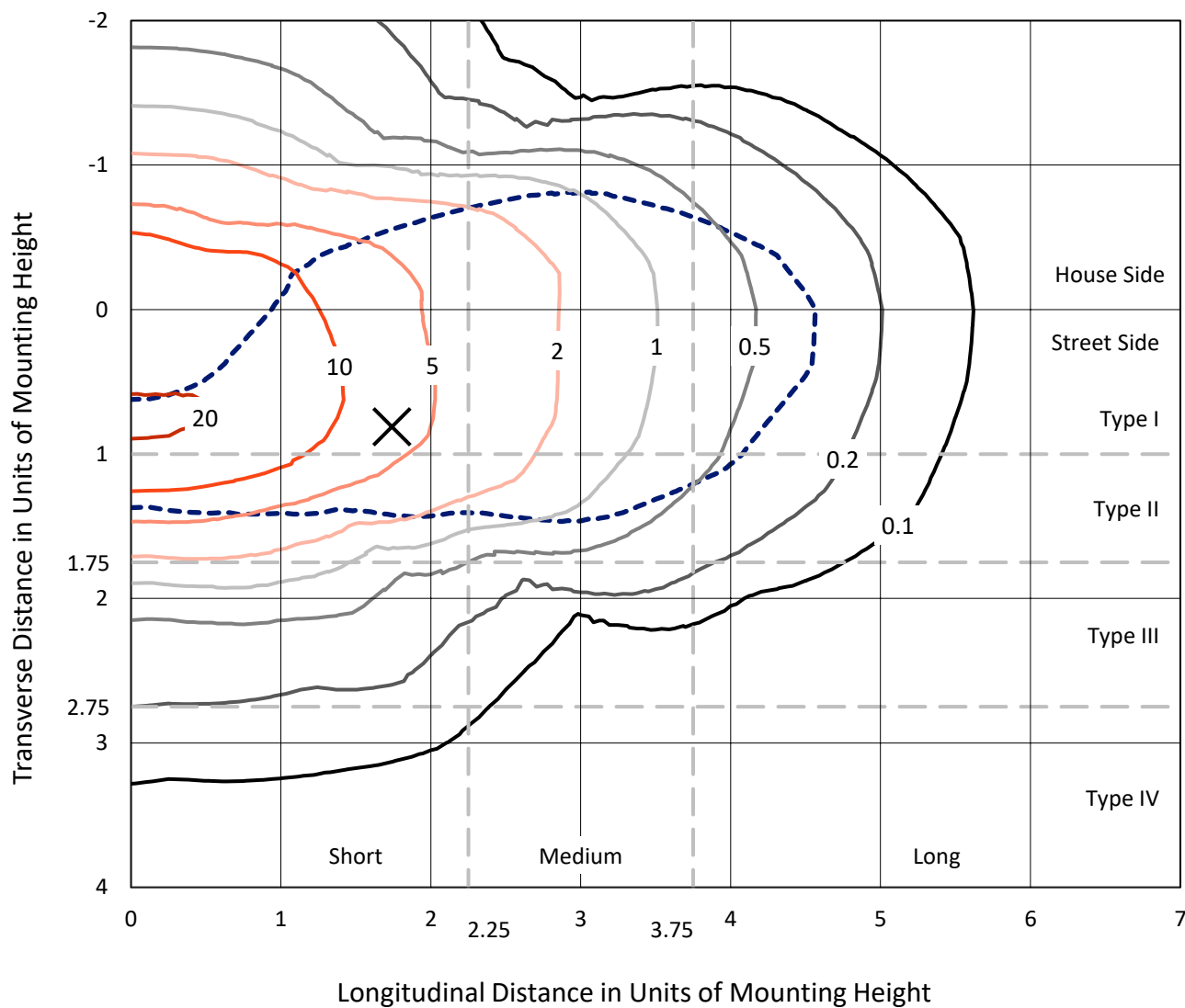
REPORT NUMBER: P957341

CATALOG NUMBER: GALN-SB9D-722-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

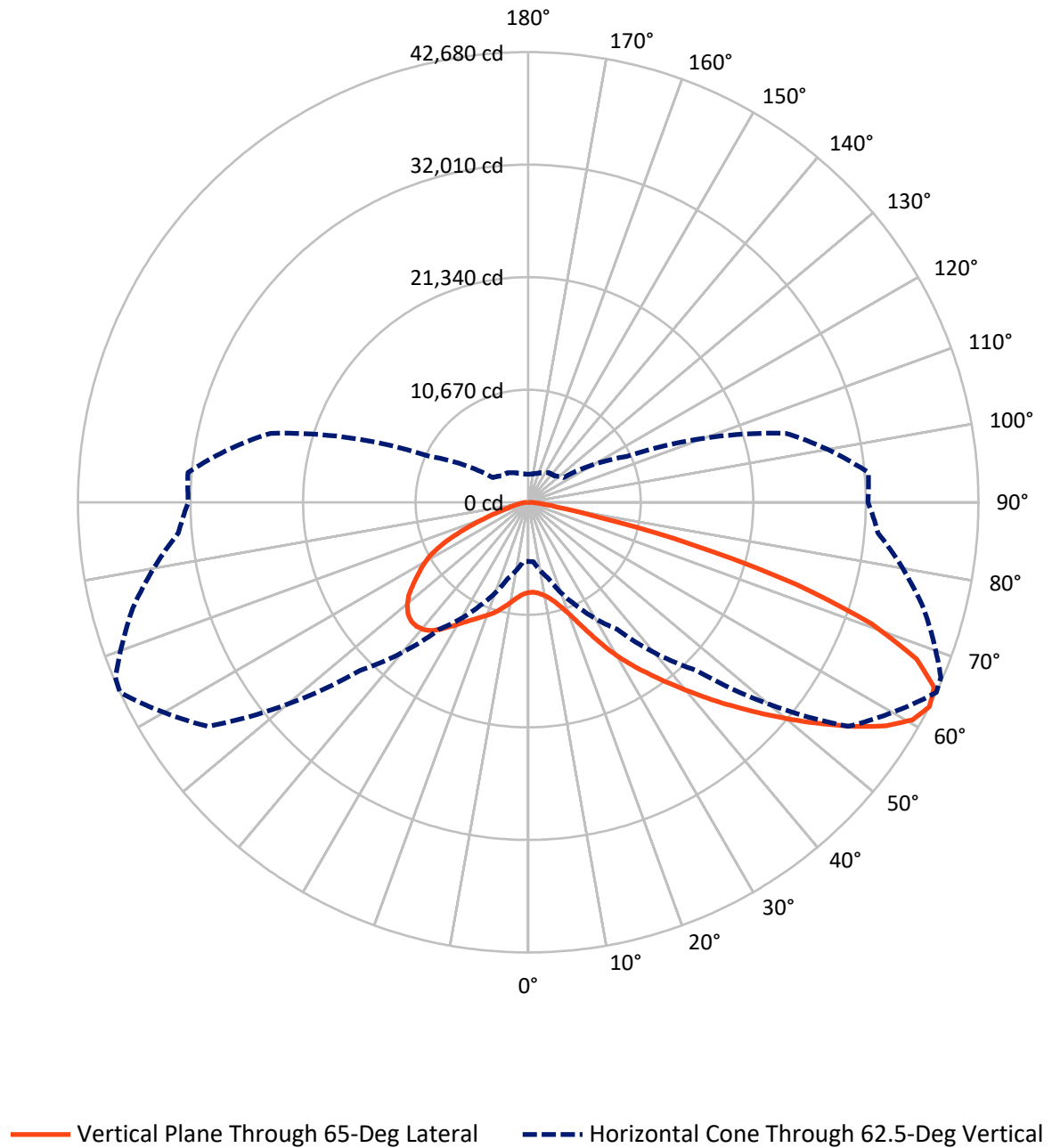


Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
Type II - Short - N/A

REPORT NUMBER: P957341

CATALOG NUMBER: GALN-SB9D-722-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P957341

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24485.3	0.0	24485.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	53108.7	0.0	53108.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	77594.0	0.0	77594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.5	1.1
10°-20°	2890.8	3.7
20°-30°	5861.5	7.6
30°-40°	10143.2	13.1
40°-50°	15349.7	19.8
50°-60°	17996.6	23.2
60°-70°	15088.0	19.4
70°-80°	8329.8	10.7
80°-90°	1082.0	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°	77594.0	100.0
0°-180°	77594.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957341

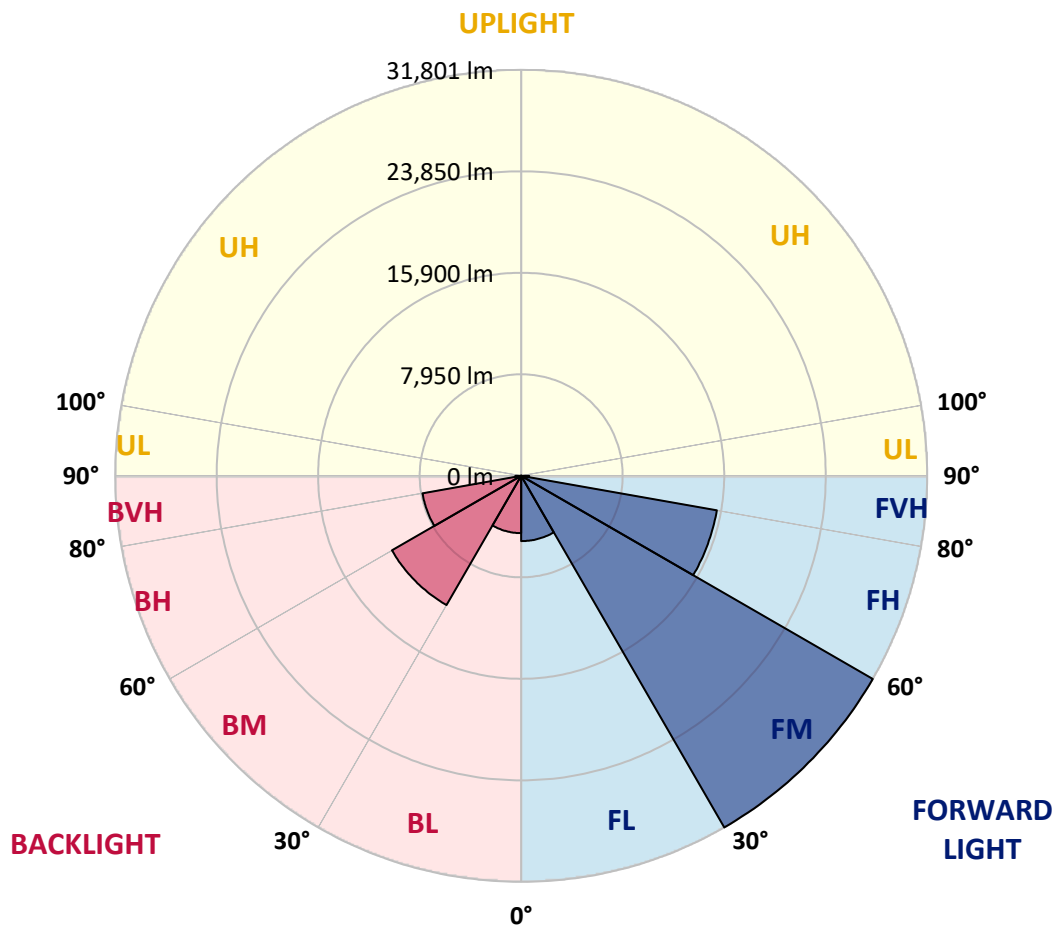
CATALOG NUMBER: GALN-SB9D-722-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5114.5	6.6			
FM	(30°-60°)	31800.5	41.0			
FH	(60°-80°)	15563.1	20.1			G5
FVH	(80°-90°)	630.6	0.8			G4/750
BL	(0°-30°)	4490.3	5.8	B4/5000		
BM	(30°-60°)	11688.9	15.1	B5		
BH	(60°-80°)	7854.7	10.1	B5		G5
BVH	(80°-90°)	451.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Short



REPORT NUMBER: P957341

CATALOG NUMBER: GALN-SB9D-722-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5
2.5°	8494.2	8470.0	8490.1	8490.1	8498.2	8494.2	8522.3	8530.4	8542.5	8566.6	8566.6
5°	8409.6	8405.6	8441.8	8474.0	8506.2	8534.4	8570.7	8623.0	8631.0	8659.2	8695.4
7.5°	8381.4	8357.3	8413.6	8453.9	8530.4	8598.8	8695.4	8784.0	8820.2	8832.3	8900.8
10°	8598.8	8558.6	8610.9	8635.1	8699.5	8767.9	8880.6	9021.5	9061.8	9110.1	9186.6
12.5°	8969.2	8924.9	9001.4	9037.6	9098.0	9158.4	9234.9	9371.8	9391.9	9480.5	9552.9
15°	9476.4	9424.1	9472.4	9516.7	9617.3	9673.7	9750.2	9883.0	9883.0	9951.5	10003.8
17.5°	10164.8	10096.4	10132.6	10148.7	10213.1	10297.7	10426.5	10543.2	10603.6	10579.5	10507.0
20°	11191.4	11106.8	11106.8	11026.3	11002.2	11070.6	11239.7	11400.7	11465.1	11340.3	11163.2
22.5°	12733.2	12612.4	12544.0	12270.2	12161.5	12169.6	12338.7	12535.9	12588.3	12366.9	11968.3
25°	14693.7	14504.5	14411.9	14009.3	13763.8	13550.4	13683.3	13936.9	14009.3	13735.6	13091.5
27.5°	16654.2	16666.3	16577.7	16094.6	15688.0	15297.5	15229.1	15494.8	15571.3	15261.3	14464.2
30°	19403.7	19117.9	18948.8	18369.1	17789.4	17241.9	16960.1	17068.8	17089.0	16718.6	15792.7
32.5°	21774.8	21702.4	21340.1	20832.8	20088.1	19230.6	18759.6	18586.5	18554.3	18026.9	16927.9
35°	24476.1	24435.8	24053.4	23449.5	22644.4	21452.8	20603.4	20108.2	20068.0	19327.2	18051.1
37.5°	27221.6	27221.6	26847.2	26187.0	25353.7	23864.2	22571.9	21786.9	21658.1	20691.9	19194.4
40°	29411.5	29278.7	29347.1	29069.4	28115.3	26533.2	24757.9	23618.6	23445.5	22286.1	20410.1
42.5°	30655.5	30611.2	31021.8	31331.8	30941.3	29677.2	27165.2	25603.3	25361.7	24041.3	21811.1
45°	30933.2	30884.9	31617.6	32752.8	33300.3	32781.0	29781.9	27692.6	27398.7	25877.0	23312.7
47.5°	30293.2	30196.5	31271.4	33062.8	34818.0	35731.8	32616.0	29959.0	29532.3	27664.4	24854.5
50°	28368.9	28276.3	29902.7	32281.8	35329.3	37736.6	35691.6	32362.4	31710.2	29580.6	26412.4
52.5°	24186.2	24230.5	26778.8	30047.6	34657.0	38984.6	38340.5	34894.5	34109.5	31541.1	27873.7
55°	18840.1	18936.8	22068.7	25667.7	31967.8	38795.4	40148.0	37503.1	36722.2	33384.9	29383.4
57.5°	13490.0	13916.7	16851.5	20414.2	26802.9	35796.3	40542.5	39983.0	39226.1	35397.7	30860.8
60°	8743.8	8820.2	11839.5	15430.4	20410.1	30466.3	39741.4	41862.9	41271.2	37450.8	32096.7
62.5°	5603.7	5656.1	7495.8	10792.8	14689.7	22539.7	37044.2	42680.1	42499.0	38807.5	33284.2
65°	4118.3	4078.0	5036.1	7133.5	9895.1	13900.6	31806.8	42285.6	42643.9	39656.9	34266.5
67.5°	3437.9	3381.6	3852.6	4939.5	7290.5	7894.3	23534.1	39721.3	41033.7	39560.3	34987.1
70°	3132.0	3083.7	3369.5	3667.4	5688.3	5285.7	11863.6	34532.2	36553.1	38461.2	34870.4
72.5°	2652.9	2568.4	2958.9	3256.8	4424.2	4053.8	4903.3	26525.1	28988.8	34938.8	33227.9
75°	2057.1	2000.8	2334.9	2866.3	3325.2	3164.2	3099.8	16106.7	18795.9	27020.3	29069.4
77.5°	1630.4	1553.9	1859.9	2234.2	2991.1	2387.2	2258.4	6936.2	9601.2	17250.0	21750.7
80°	1227.8	1159.4	1413.0	1767.3	2298.7	1799.5	1461.3	2830.0	3619.1	8739.7	10937.7
82.5°	873.6	813.2	986.3	1296.3	1545.9	1614.3	897.7	1586.1	1783.4	3369.5	2443.6
85°	559.6	523.3	660.2	813.2	982.3	1038.6	547.5	829.3	909.8	1388.9	1018.5
87.5°	306.0	249.6	354.3	378.4	454.9	414.6	261.7	301.9	326.1	503.2	430.7
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: P957341

CATALOG NUMBER: GALN-SB9D-722-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5	8550.5
2.5°	8582.7	8594.8	8635.1	8647.1	8675.3	8711.5	8735.7	8759.9	8759.9	8784.0	8784.0
5°	8699.5	8727.7	8812.2	8856.5	8928.9	9001.4	9045.7	9098.0	9130.2	9146.3	9154.4
7.5°	8924.9	8969.2	9090.0	9166.4	9291.2	9391.9	9460.3	9532.8	9548.9	9593.2	9577.1
10°	9230.9	9283.2	9420.1	9565.0	9713.9	9838.7	9903.1	9955.5	9975.6	9983.7	9963.5
12.5°	9581.1	9657.6	9834.7	10011.8	10168.8	10277.5	10293.6	10281.6	10225.2	10176.9	10176.9
15°	10011.8	10080.3	10277.5	10470.8	10623.7	10643.9	10543.2	10478.8	10410.4	10398.3	10398.3
17.5°	10527.1	10563.4	10744.5	10933.7	10945.8	10877.4	10728.4	10668.0	10603.6	10559.3	10563.4
20°	11127.0	11114.9	11243.7	11324.2	11239.7	11030.3	10804.9	10704.3	10639.8	10587.5	10591.5
22.5°	11843.5	11750.9	11734.8	11714.7	11489.3	11050.5	10744.5	10615.7	10515.0	10442.6	10466.7
25°	12886.2	12531.9	12286.3	12149.5	11642.2	10941.8	10551.3	10265.5	10076.3	9951.5	9999.8
27.5°	14190.5	13594.7	12974.7	12640.6	11642.2	10720.4	10084.3	9621.4	9311.4	9182.6	9247.0
30°	15434.4	14810.4	13896.6	13232.4	11614.1	10358.0	9331.5	8687.4	8325.1	8196.3	8272.8
32.5°	16497.2	15816.9	14874.8	13880.5	11545.6	9770.3	8397.5	7685.0	7334.8	7181.8	7258.3
35°	17483.5	16758.9	15857.1	14593.1	11364.5	8908.8	7371.0	6827.5	6437.0	6191.5	6272.0
37.5°	18493.9	17632.4	16787.0	15237.2	11038.4	7902.4	6582.0	6119.0	5660.1	5330.0	5418.6
40°	19592.9	18562.4	17781.4	15619.6	10503.0	6944.3	5970.1	5547.4	5060.3	4710.0	4778.5
42.5°	20877.1	19677.5	18888.4	15816.9	9770.3	6263.9	5571.5	5156.9	4698.0	4412.1	4468.5
45°	22217.7	20905.3	19898.9	15812.8	8953.1	5945.9	5442.7	5032.1	4524.9	4227.0	4275.3
47.5°	23622.6	22189.5	20772.5	15555.2	8244.6	5990.2	5370.2	4762.4	4202.8	3913.0	3953.2
50°	25031.6	23594.4	21617.8	15072.1	7942.6	5893.6	5100.5	4384.0	3723.7	3462.1	3478.2
52.5°	26428.5	25088.0	22346.5	14383.7	7636.7	5535.3	4754.3	3892.8	3526.5	3345.3	3345.3
55°	27833.5	26565.4	23139.5	13381.3	6871.8	5116.6	4174.6	3707.6	3369.5	3204.4	3188.3
57.5°	29242.5	28272.3	23892.3	12378.9	5909.7	4601.3	3856.6	3482.2	3212.5	3071.6	3047.4
60°	30707.8	30224.7	24669.3	11457.1	4959.6	3941.1	3623.1	3301.0	3027.3	2870.3	2858.2
62.5°	32217.4	32374.4	25277.2	10269.5	4086.1	3538.6	3413.8	3083.7	2818.0	2669.0	2665.0
65°	33739.1	34447.7	25675.7	8623.0	3313.1	3156.1	3188.3	2846.1	2576.4	2447.6	2443.6
67.5°	34886.5	35941.2	25563.0	6525.6	2717.3	2793.8	2906.5	2596.6	2342.9	2242.3	2246.3
70°	35015.3	35764.0	24451.9	4468.5	2274.5	2439.6	2592.5	2351.0	2089.3	2016.9	2020.9
72.5°	33300.3	33348.6	21356.2	2918.6	1924.3	2141.7	2262.4	2101.4	1847.8	1775.3	1771.3
75°	28803.7	27579.9	15680.0	1924.3	1610.3	1839.7	1952.4	1839.7	1594.2	1610.3	1553.9
77.5°	21823.2	19532.5	9520.7	1368.7	1344.6	1545.9	1698.8	1618.3	1409.0	1582.1	1392.9
80°	11243.7	10567.4	4247.1	1022.5	1062.8	1235.9	1396.9	1292.2	1115.1	1062.8	970.2
82.5°	2576.4	2995.1	1674.7	732.7	768.9	889.7	1066.8	970.2	801.1	676.3	668.3
85°	901.8	986.3	740.7	458.9	450.9	555.5	724.6	648.1	543.5	434.8	458.9
87.5°	285.8	374.4	277.8	185.2	193.2	249.6	334.1	306.0	253.6	165.1	173.1
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)