

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: P944669

Luminaire Tested: **GALN-SB9D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
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-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 75677 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - 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

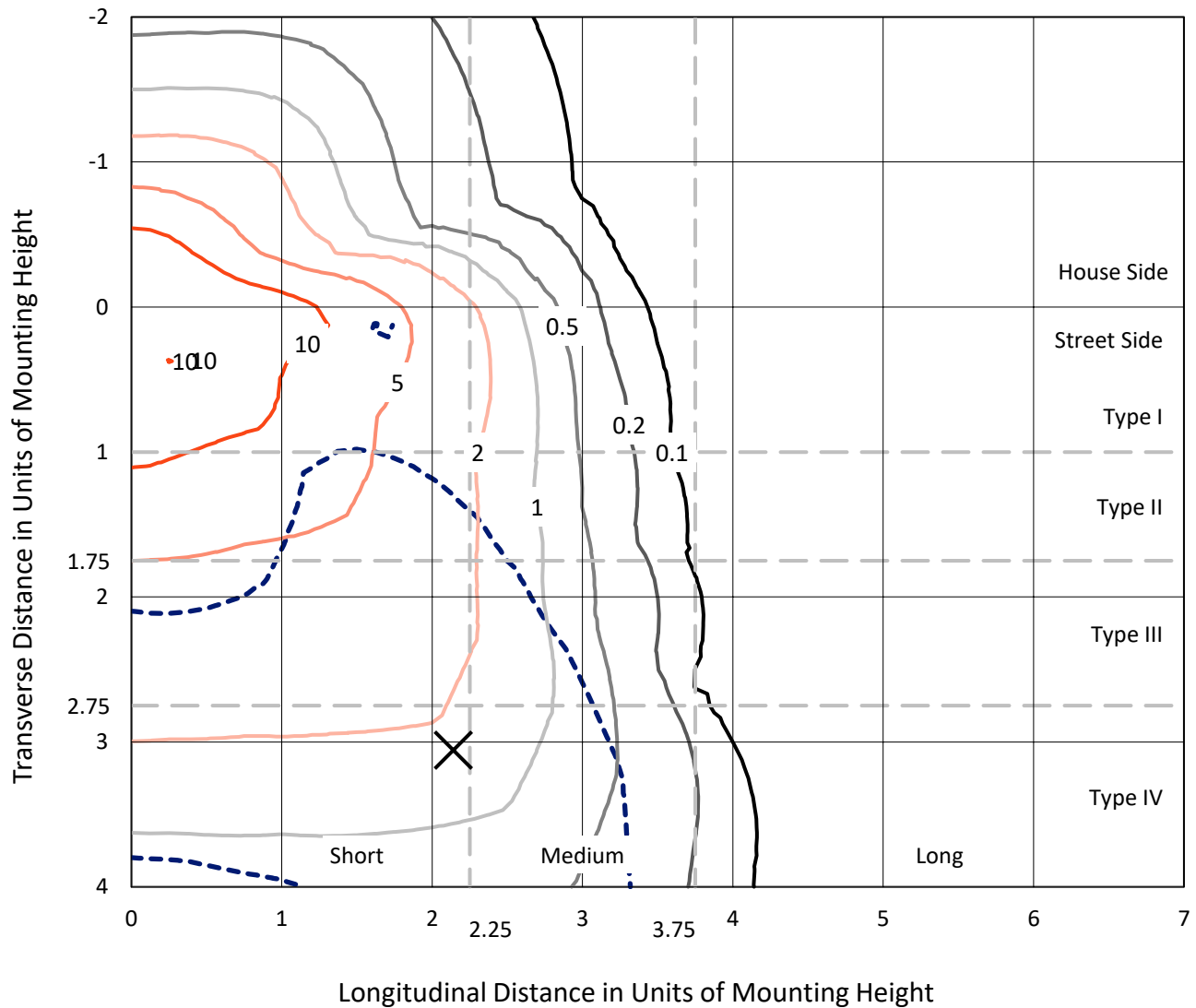


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

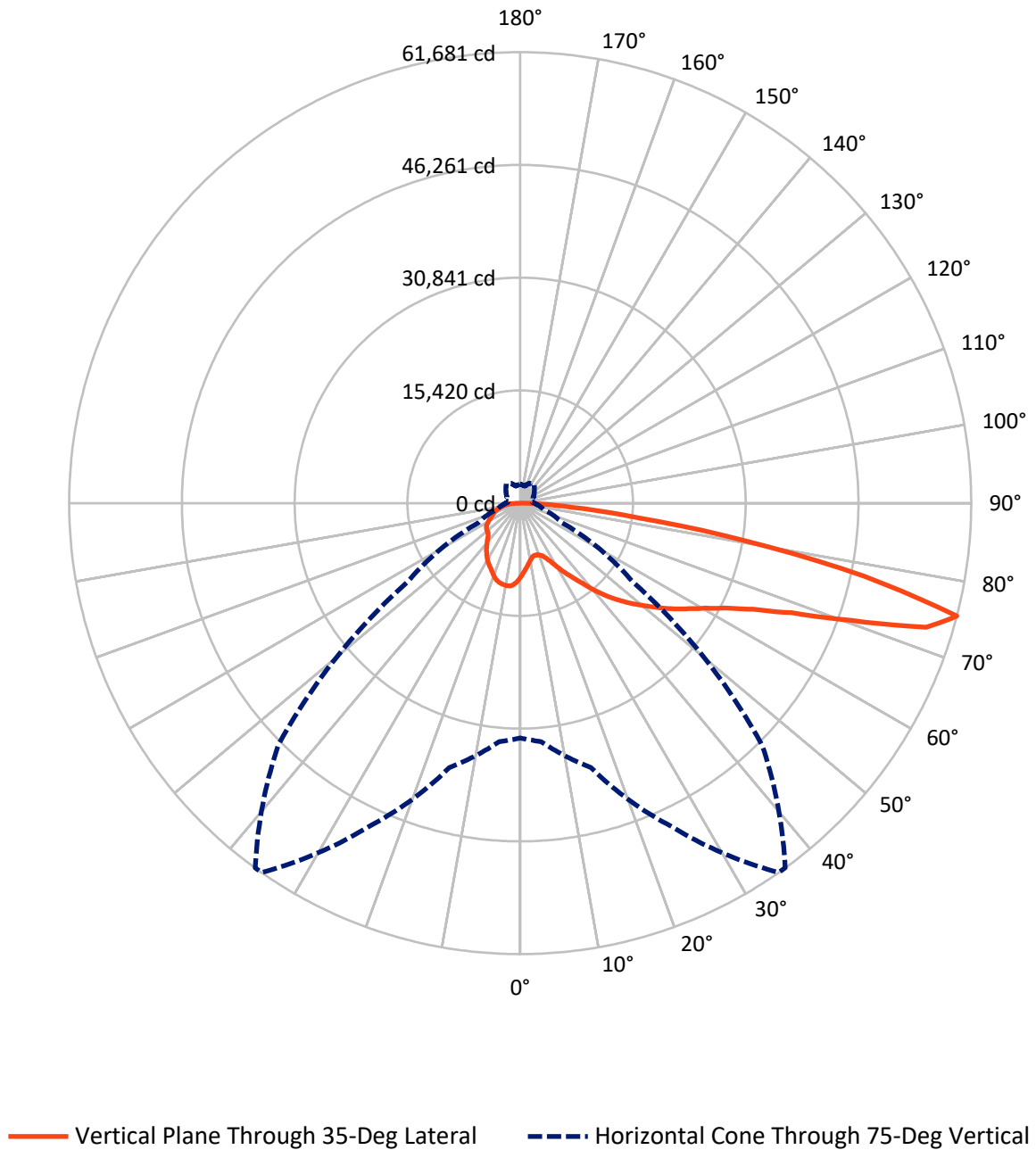


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18009.2	0.0	18009.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	57667.8	0.0	57667.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	75677.0	0.0	75677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.8	1.3
10°-20°	2754.1	3.6
20°-30°	4624.8	6.1
30°-40°	7187.5	9.5
40°-50°	10668.2	14.1
50°-60°	14728.1	19.5
60°-70°	17868.6	23.6
70°-80°	14767.0	19.5
80°-90°	2123.9	2.8
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°	75677.0	100.0
0°-180°	75677.0	100.0

Coefficient of Utilization



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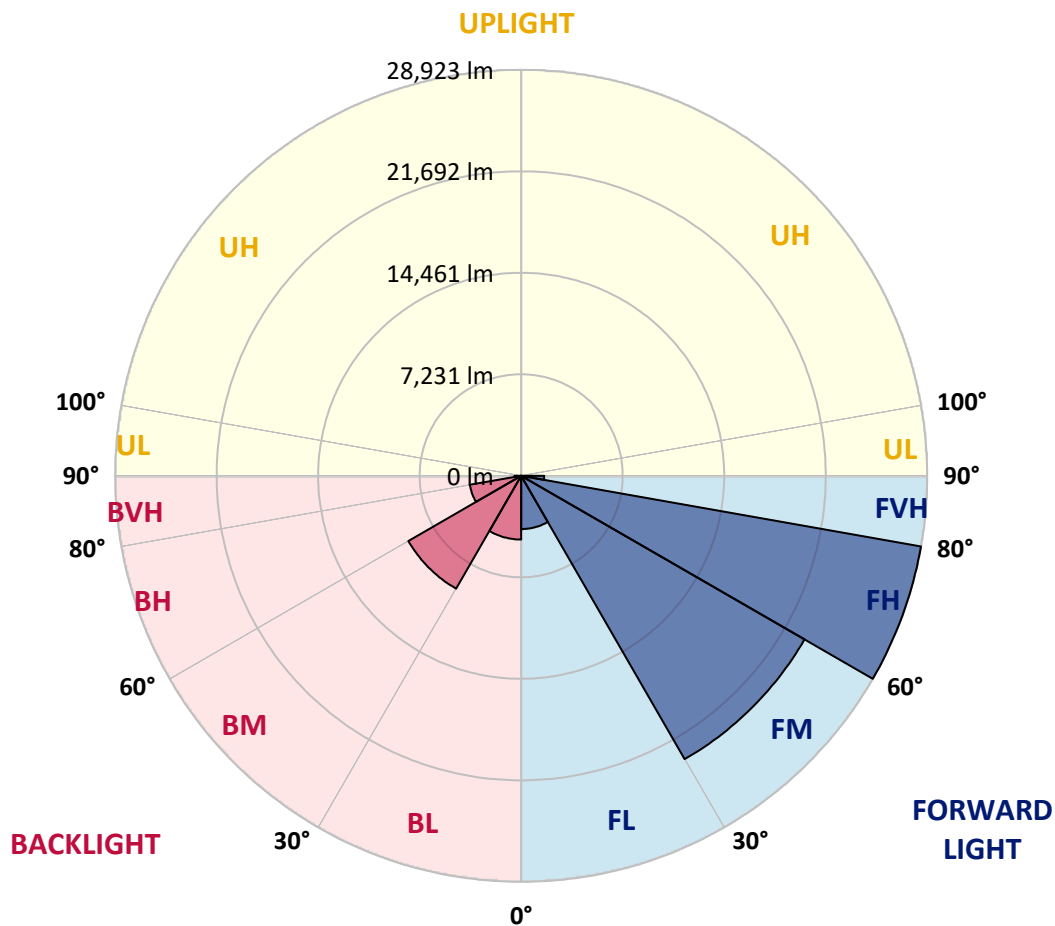
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3795.1	5.0			
FM	(30°-60°)	23304.4	30.8			
FH	(60°-80°)	28922.6	38.2			G5
FVH	(80°-90°)	1645.7	2.2			G5
BL	(0°-30°)	4538.6	6.0	B4/5000		
BM	(30°-60°)	9279.5	12.3	B5		
BH	(60°-80°)	3712.9	4.9	B4/5000		G4/5000
BVH	(80°-90°)	478.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5
2.5°	9299.0	9356.3	9380.8	9368.5	9429.9	9421.7	9507.6	9614.0	9761.3	9904.5	10113.1
5°	8583.1	8644.4	8697.6	8746.7	8865.3	8902.2	9037.2	9241.7	9511.7	9785.8	10129.5
7.5°	7916.2	7969.4	8051.2	8141.2	8341.7	8378.5	8603.5	8922.6	9299.0	9699.9	10174.5
10°	7372.1	7425.3	7511.2	7613.5	7863.0	7908.0	8194.4	8619.9	9110.8	9618.1	10223.6
12.5°	7138.9	7155.3	7204.4	7306.6	7523.5	7552.1	7867.1	8354.0	8926.7	9556.7	10297.2
15°	7126.6	7159.4	7163.5	7216.6	7396.6	7408.9	7699.4	8182.1	8812.2	9544.5	10407.7
17.5°	7249.4	7273.9	7237.1	7269.8	7421.2	7441.6	7670.7	8100.3	8775.3	9597.6	10595.9
20°	7576.7	7597.1	7486.6	7441.6	7552.1	7568.5	7793.5	8153.5	8812.2	9708.1	10853.6
22.5°	8272.1	8284.4	8014.4	7830.3	7838.5	7846.7	8043.0	8370.3	8955.3	9908.6	11180.9
25°	9356.3	9348.1	8918.5	8562.6	8358.0	8313.0	8444.0	8722.1	9196.7	10174.5	11602.3
27.5°	10624.5	10563.1	10133.6	9601.7	9155.8	9090.3	9061.7	9180.3	9540.4	10526.3	12117.7
30°	12056.4	11999.1	11536.8	10841.3	10223.6	10117.2	9847.2	9785.8	10051.7	11005.0	12833.7
32.5°	13627.3	13590.5	13038.2	12195.5	11369.1	11246.3	10792.2	10628.6	10837.2	11729.1	13831.9
35°	14944.7	14911.9	14453.7	13586.4	12575.9	12424.6	11962.3	11778.2	11884.5	12657.8	15136.9
37.5°	16135.2	16118.8	15726.0	15042.8	13999.6	13815.5	13296.0	13234.6	13214.1	13881.0	16720.2
40°	17239.7	17198.8	16789.7	16429.7	15656.5	15488.8	15030.6	14977.4	14821.9	15386.5	18512.1
42.5°	18463.0	18356.6	17763.4	17595.7	17387.0	17247.9	16973.8	16982.0	16638.4	17084.3	20410.3
45°	19461.2	19399.8	18790.3	18692.1	18917.1	18859.8	19097.1	19158.5	18491.6	18863.9	22382.2
47.5°	20533.0	20475.8	19960.3	19890.8	20500.3	20516.7	21355.4	21375.8	20299.9	20713.1	24358.2
50°	21854.5	21772.6	21261.3	21347.2	22030.4	22091.7	23625.9	23486.8	21964.9	22590.9	26317.8
52.5°	22725.9	22775.0	22664.5	22803.6	23736.4	23793.6	25859.6	25503.7	23613.6	24444.1	28240.6
55°	23368.2	23466.3	23810.0	24129.1	25536.4	25593.7	27966.5	27422.4	24980.0	26162.4	30048.9
57.5°	24194.6	24055.5	24697.8	25319.6	27246.5	27397.9	30016.1	29271.6	26191.0	27643.3	31288.5
60°	25381.0	25282.8	25781.9	26702.4	29161.1	29402.5	32184.4	30936.6	27078.8	28817.5	31529.8
62.5°	27786.5	27541.0	27618.8	28432.9	31574.8	31893.9	34630.9	32389.0	27520.6	29275.7	30237.1
65°	31382.6	30961.2	30568.4	31133.0	34974.5	35289.5	37392.3	33530.4	27356.9	28387.9	26804.6
67.5°	35911.4	35494.1	35011.3	35543.2	39982.0	40231.5	40800.2	34172.7	26068.3	24967.8	20737.6
70°	39646.5	39491.0	40067.9	42256.6	47980.0	47988.2	45169.4	33640.8	22537.7	17702.0	11999.1
72.5°	39151.5	39057.4	42097.0	48863.7	58060.4	57843.6	49305.5	29615.2	15181.9	7985.8	4496.1
75°	32118.9	32728.5	37437.3	48745.0	61681.0	61652.3	46773.1	18827.1	6279.8	3309.7	2323.7
77.5°	17223.4	18188.9	24305.0	35989.1	48151.8	48875.9	32884.0	6586.6	2696.0	2119.2	1607.8
80°	5617.0	6459.8	9687.6	18323.9	31288.5	31153.5	14093.7	2585.6	1845.1	1501.4	1112.8
82.5°	2385.1	2483.3	4328.3	8652.6	16057.4	15807.9	4487.9	1485.1	1296.9	1026.9	687.3
85°	932.8	1043.2	1910.5	4001.1	6954.8	6803.4	1620.1	736.4	830.5	670.9	409.1
87.5°	306.8	372.3	683.2	1370.5	2164.2	2086.4	396.8	253.6	360.0	306.8	147.3
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°	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5	10084.5
2.5°	10170.4	10235.8	10313.6	10428.1	10526.3	10608.1	10694.0	10747.2	10767.7	10829.0	10825.0
5°	10244.0	10387.2	10579.5	10767.7	10951.8	11062.2	11160.4	11209.5	11254.5	11287.2	11295.4
7.5°	10366.8	10550.9	10853.6	11099.1	11254.5	11344.5	11410.0	11393.6	11410.0	11418.2	11430.4
10°	10473.1	10730.9	11090.9	11324.1	11442.7	11446.8	11430.4	11373.2	11344.5	11348.6	11356.8
12.5°	10599.9	10886.3	11275.0	11471.3	11504.1	11414.1	11344.5	11246.3	11209.5	11193.2	11185.0
15°	10771.8	11099.1	11475.4	11549.1	11467.3	11352.7	11234.1	11074.5	10992.7	10927.2	10947.7
17.5°	10980.4	11340.4	11630.9	11577.7	11401.8	11213.6	11021.3	10780.0	10612.2	10542.7	10546.8
20°	11270.9	11594.1	11749.5	11516.3	11250.4	10964.1	10636.8	10342.2	10186.7	10117.2	10109.0
22.5°	11622.7	11933.6	11864.1	11410.0	11033.6	10575.4	10166.3	9949.5	9871.7	9822.6	9830.8
25°	12044.1	12310.0	11945.9	11254.5	10677.7	10059.9	9744.9	9675.4	9638.5	9601.7	9601.7
27.5°	12592.3	12735.5	12007.3	11025.4	10121.3	9511.7	9397.2	9409.4	9397.2	9335.8	9348.1
30°	13316.4	13287.8	12064.5	10653.1	9483.1	9016.7	9024.9	9078.1	9086.3	9045.3	9065.8
32.5°	14269.6	13979.2	12093.2	10170.4	8873.5	8583.1	8591.2	8648.5	8689.4	8619.9	8652.6
35°	15423.3	14785.1	12048.2	9564.9	8403.0	8169.9	8108.5	8124.9	8137.1	8071.7	8116.7
37.5°	16769.3	15689.2	11847.7	8894.0	8014.4	7764.8	7633.9	7523.5	7458.0	7396.6	7437.6
40°	18246.1	16675.2	11479.5	8239.4	7580.7	7335.3	7138.9	6930.3	6709.3	6627.5	6664.3
42.5°	19792.6	17689.8	11033.6	7613.5	7081.6	6881.2	6672.5	6369.8	6038.4	5870.7	5891.1
45°	21396.3	18728.9	10595.9	6995.7	6570.2	6484.3	6243.0	5878.9	5518.8	5306.1	5289.7
47.5°	22967.2	19710.7	9953.6	6373.9	6091.6	6185.7	5997.5	5662.0	5261.1	4925.6	4888.8
50°	24468.7	20631.2	8902.2	5743.9	5702.9	6095.7	5915.7	5432.9	4974.7	4545.2	4508.4
52.5°	25957.8	21375.8	7556.2	5171.1	5494.3	6071.1	5809.3	5277.5	4717.0	4267.0	4217.9
55°	27221.9	21760.4	6259.3	4680.2	5191.6	5862.5	5682.5	5093.4	4352.9	3874.2	3833.3
57.5°	27942.0	21449.4	5179.3	4197.4	4774.3	5518.8	5465.7	4700.6	3919.2	3551.0	3502.0
60°	27631.0	20189.4	4295.6	3776.1	4377.4	5146.6	5089.3	4312.0	3587.9	3240.1	3191.0
62.5°	25916.9	17787.9	3596.0	3407.9	4017.4	4766.1	4712.9	4013.3	3334.2	2998.7	2945.6
65°	22464.0	14470.1	3051.9	3101.0	3653.3	4307.9	4385.6	3763.8	3133.8	2806.5	2753.3
67.5°	17133.4	10481.3	2626.5	2835.1	3297.4	3857.9	4082.9	3583.8	2966.0	2655.1	2606.0
70°	9765.4	5952.5	2266.4	2577.4	2982.4	3440.6	3849.7	3440.6	2786.0	2528.3	2495.5
72.5°	3702.4	2732.8	1959.6	2319.6	2679.6	3088.8	3592.0	3215.6	2577.4	2385.1	2352.4
75°	1976.0	1665.1	1648.7	2016.9	2331.9	2745.1	3268.8	2994.7	2421.9	2520.1	2601.9
77.5°	1346.0	1178.2	1378.7	1726.4	1951.4	2364.6	2925.1	2659.2	2098.7	2090.5	1926.9
80°	932.8	834.6	1121.0	1391.0	1509.6	1988.3	2552.8	2282.8	1710.1	1595.5	1526.0
82.5°	560.5	544.1	838.7	1039.1	1067.8	1534.1	2115.1	1914.6	1399.1	1219.1	1227.3
85°	306.8	323.2	535.9	609.6	621.8	1071.9	1656.9	1481.0	1075.9	904.1	912.3
87.5°	85.9	110.5	196.4	241.4	298.6	556.4	985.9	879.6	540.0	376.4	376.4
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)