

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: P944509

Luminaire Tested: **GALN-SB9C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944509
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-SB9C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62535 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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



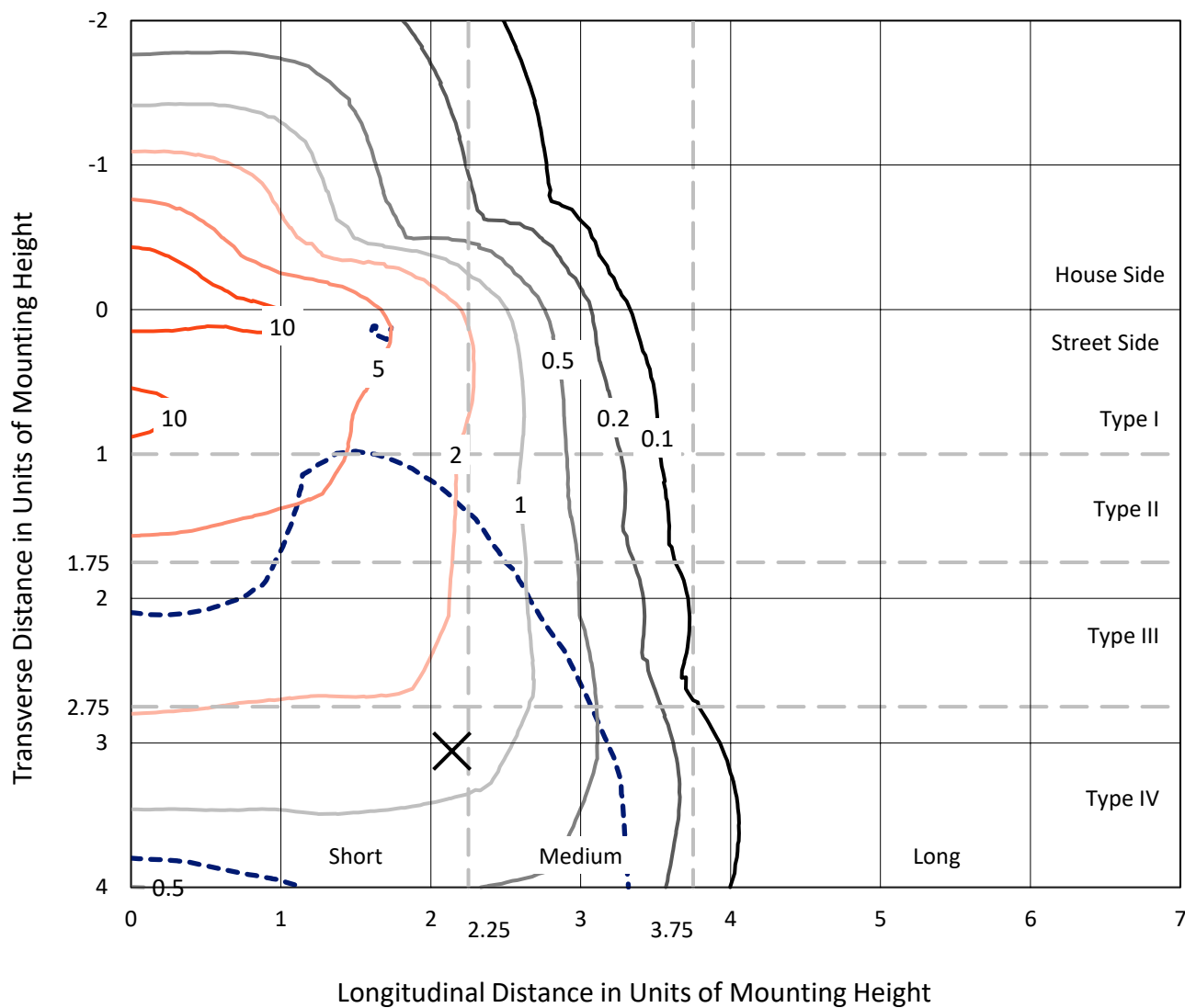
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

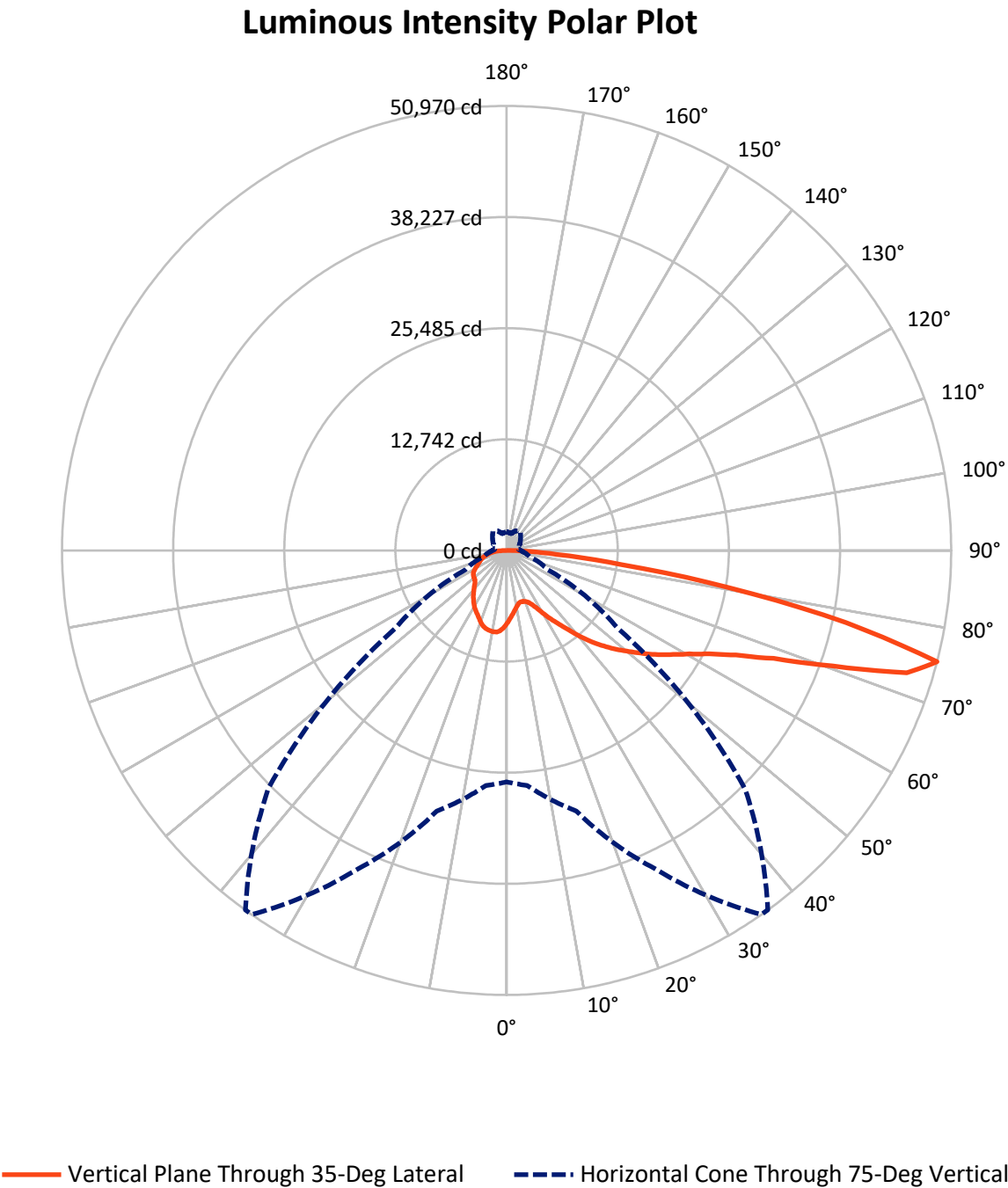
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14881.8	0.0	14881.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	47653.2	0.0	47653.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	62535.0	0.0	62535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.0	1.3
10°-20°	2275.8	3.6
20°-30°	3821.6	6.1
30°-40°	5939.4	9.5
40°-50°	8815.6	14.1
50°-60°	12170.4	19.5
60°-70°	14765.5	23.6
70°-80°	12202.6	19.5
80°-90°	1755.1	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°	62535.0	100.0
0°-180°	62535.0	100.0

Coefficient of Utilization



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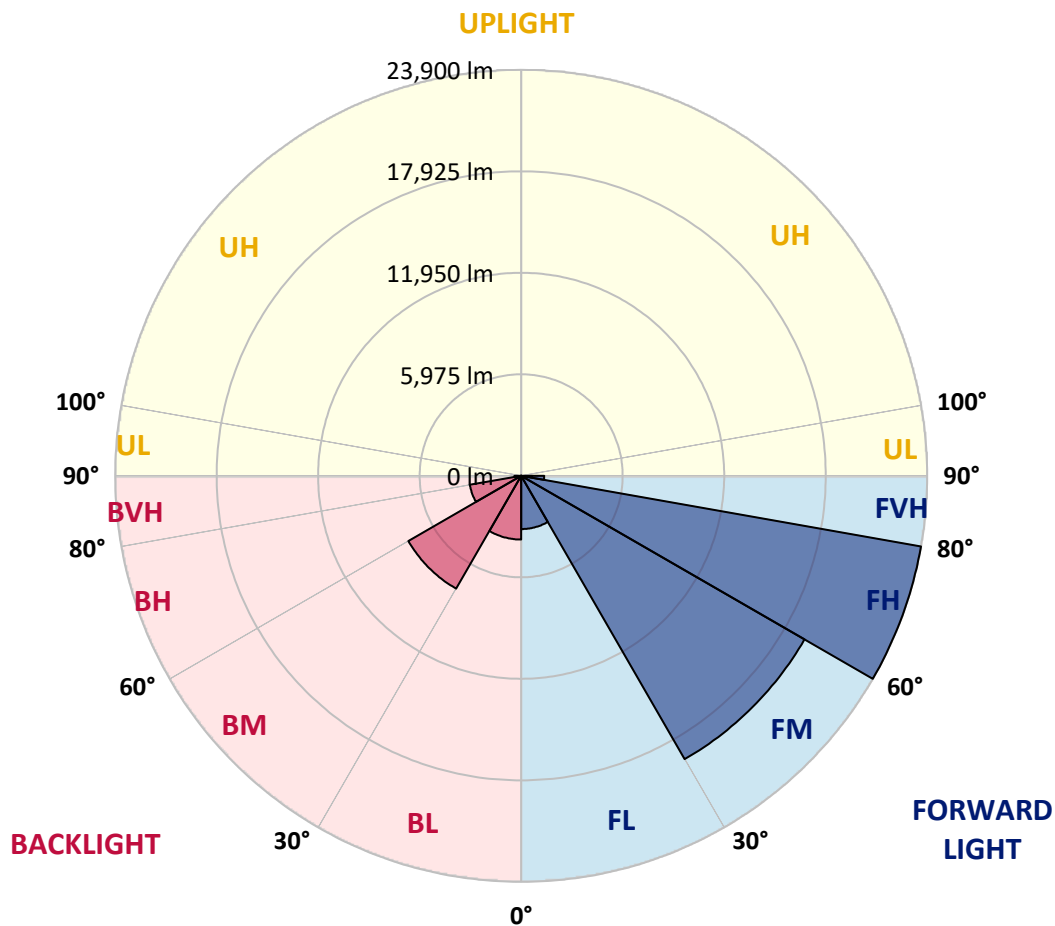
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3136.0	5.0			
FM	(30°-60°)	19257.4	30.8			
FH	(60°-80°)	23900.0	38.2			G5
FVH	(80°-90°)	1359.9	2.2			G5
BL	(0°-30°)	3750.4	6.0	B4/5000		
BM	(30°-60°)	7668.0	12.3	B4/8500		
BH	(60°-80°)	3068.2	4.9	B4/5000		G4/5000
BVH	(80°-90°)	395.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2
2.5°	7684.1	7731.5	7751.7	7741.6	7792.3	7785.6	7856.5	7944.4	8066.1	8184.5	8356.9
5°	7092.5	7143.2	7187.2	7227.8	7325.8	7356.2	7467.8	7636.8	7859.9	8086.4	8370.4
7.5°	6541.5	6585.4	6653.0	6727.4	6893.1	6923.5	7109.4	7373.1	7684.1	8015.4	8407.6
10°	6091.9	6135.8	6206.8	6291.3	6497.5	6534.7	6771.4	7123.0	7528.6	7947.8	8448.2
12.5°	5899.2	5912.7	5953.3	6037.8	6216.9	6240.6	6500.9	6903.2	7376.5	7897.1	8509.0
15°	5889.0	5916.1	5919.5	5963.4	6112.1	6122.3	6362.3	6761.2	7281.8	7887.0	8600.3
17.5°	5990.4	6010.7	5980.3	6007.3	6132.4	6149.3	6338.6	6693.6	7251.4	7930.9	8755.8
20°	6260.9	6277.8	6186.5	6149.3	6240.6	6254.1	6440.1	6737.6	7281.8	8022.2	8968.8
22.5°	6835.6	6845.7	6622.6	6470.5	6477.3	6484.0	6646.3	6916.7	7400.2	8187.8	9239.2
25°	7731.5	7724.7	7369.7	7075.6	6906.6	6869.4	6977.6	7207.5	7599.6	8407.6	9587.4
27.5°	8779.5	8728.7	8373.8	7934.3	7565.8	7511.7	7488.1	7586.1	7883.6	8698.3	10013.4
30°	9962.7	9915.3	9533.3	8958.6	8448.2	8360.3	8137.1	8086.4	8306.2	9093.8	10605.0
32.5°	11260.8	11230.4	10774.0	10077.6	9394.7	9293.3	8918.1	8782.8	8955.2	9692.2	11429.9
35°	12349.4	12322.3	11943.7	11227.0	10392.0	10266.9	9884.9	9732.8	9820.7	10459.6	12508.3
37.5°	13333.1	13319.6	12995.1	12430.5	11568.5	11416.3	10987.0	10936.3	10919.4	11470.4	13816.6
40°	14245.9	14212.1	13874.0	13576.5	12937.6	12799.0	12420.4	12376.4	12248.0	12714.5	15297.3
42.5°	15256.7	15168.8	14678.6	14540.0	14367.6	14252.7	14026.2	14032.9	13749.0	14117.4	16865.9
45°	16081.6	16030.9	15527.2	15446.0	15632.0	15584.6	15780.7	15831.4	15280.4	15588.0	18495.3
47.5°	16967.3	16920.0	16494.0	16436.5	16940.3	16953.8	17646.8	17663.7	16774.6	17116.0	20128.2
50°	18059.2	17991.6	17569.0	17640.0	18204.6	18255.3	19523.0	19408.1	18150.5	18667.7	21747.5
52.5°	18779.3	18819.9	18728.6	18843.5	19614.3	19661.6	21368.9	21074.7	19512.9	20199.2	23336.4
55°	19310.1	19391.2	19675.2	19938.9	21101.8	21149.1	23109.9	22660.3	20642.0	21619.0	24830.6
57.5°	19992.9	19878.0	20408.8	20922.6	22514.9	22640.0	24803.6	24188.3	21642.7	22842.8	25854.9
60°	20973.3	20892.2	21304.6	22065.3	24097.0	24296.5	26595.3	25564.2	22376.3	23813.0	26054.4
62.5°	22961.1	22758.3	22822.5	23495.3	26091.6	26355.3	28616.9	26764.3	22741.4	24191.7	24986.1
65°	25932.7	25584.5	25259.9	25726.5	28900.9	29161.2	30898.8	27707.5	22606.2	23458.1	22149.8
67.5°	29675.0	29330.2	28931.3	29370.8	33038.7	33245.0	33714.9	28238.3	21541.3	20631.9	17136.3
70°	32761.5	32633.1	33109.7	34918.4	39647.8	39654.6	37325.4	27798.8	18623.8	14627.9	9915.3
72.5°	32352.5	32274.7	34786.5	40378.0	47977.7	47798.5	40743.2	24472.3	12545.5	6599.0	3715.3
75°	26541.2	27044.9	30936.0	40280.0	50969.5	50945.8	38650.6	15557.6	5189.2	2734.9	1920.2
77.5°	14232.4	15030.2	20084.2	29739.3	39789.8	40388.2	27173.4	5442.8	2227.8	1751.2	1328.6
80°	4641.6	5338.0	8005.3	15141.8	25854.9	25743.4	11646.2	2136.5	1524.7	1240.7	919.5
82.5°	1970.9	2052.0	3576.7	7150.0	13268.9	13062.7	3708.5	1227.2	1071.7	848.5	567.9
85°	770.8	862.1	1578.7	3306.2	5747.0	5622.0	1338.7	608.5	686.3	554.4	338.1
87.5°	253.5	307.6	564.6	1132.5	1788.3	1724.1	327.9	209.6	297.5	253.5	121.7
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°	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2	8333.2
2.5°	8404.2	8458.3	8522.5	8617.2	8698.3	8765.9	8836.9	8880.9	8897.8	8948.5	8945.1
5°	8465.1	8583.4	8742.3	8897.8	9049.9	9141.2	9222.3	9262.9	9300.1	9327.1	9333.9
7.5°	8566.5	8718.6	8968.8	9171.6	9300.1	9374.4	9428.5	9415.0	9428.5	9435.3	9445.4
10°	8654.4	8867.3	9164.8	9357.5	9455.6	9459.0	9445.4	9398.1	9374.4	9377.8	9384.6
12.5°	8759.2	8995.8	9317.0	9479.2	9506.3	9431.9	9374.4	9293.3	9262.9	9249.4	9242.6
15°	8901.2	9171.6	9482.6	9543.5	9475.9	9381.2	9283.2	9151.3	9083.7	9029.6	9046.5
17.5°	9073.6	9371.1	9611.1	9567.1	9421.8	9266.3	9107.4	8907.9	8769.3	8711.8	8715.2
20°	9313.6	9580.7	9709.1	9516.4	9296.7	9060.0	8789.6	8546.2	8417.7	8360.3	8353.5
22.5°	9604.3	9861.2	9803.8	9428.5	9117.5	8738.9	8400.8	8221.7	8157.4	8116.9	8123.6
25°	9952.5	10172.3	9871.4	9300.1	8823.4	8312.9	8052.6	7995.2	7964.7	7934.3	7934.3
27.5°	10405.5	10523.8	9922.1	9110.8	8363.6	7859.9	7765.3	7775.4	7765.3	7714.6	7724.7
30°	11003.9	10980.2	9969.4	8803.1	7836.3	7450.9	7457.6	7501.6	7508.3	7474.5	7491.4
32.5°	11791.6	11551.6	9993.1	8404.2	7332.6	7092.5	7099.3	7146.6	7180.4	7123.0	7150.0
35°	12744.9	12217.5	9955.9	7903.9	6943.8	6751.1	6700.4	6713.9	6724.0	6670.0	6707.1
37.5°	13857.1	12964.7	9790.3	7349.5	6622.6	6416.4	6308.2	6216.9	6162.9	6112.1	6146.0
40°	15077.5	13779.4	9486.0	6808.6	6264.3	6061.4	5899.2	5726.8	5544.2	5476.6	5507.0
42.5°	16355.4	14617.8	9117.5	6291.3	5851.8	5686.2	5513.8	5263.6	4989.8	4851.2	4868.1
45°	17680.6	15476.4	8755.8	5780.8	5429.3	5358.3	5158.8	4857.9	4560.4	4384.7	4371.1
47.5°	18978.8	16287.8	8225.0	5267.0	5033.7	5111.5	4956.0	4678.8	4347.5	4070.3	4039.8
50°	20219.4	17048.4	7356.2	4746.4	4712.6	5037.1	4888.4	4489.5	4110.8	3755.9	3725.4
52.5°	21450.0	17663.7	6244.0	4273.1	4540.2	5016.8	4800.5	4361.0	3897.8	3526.0	3485.4
55°	22494.6	17981.5	5172.3	3867.4	4290.0	4844.4	4695.7	4208.9	3597.0	3201.4	3167.6
57.5°	23089.6	17724.6	4279.9	3468.5	3945.2	4560.4	4516.5	3884.3	3238.6	2934.4	2893.8
60°	22832.7	16683.3	3549.6	3120.3	3617.3	4252.8	4205.5	3563.2	2964.8	2677.4	2636.9
62.5°	21416.2	14698.9	2971.6	2816.1	3319.8	3938.4	3894.5	3316.4	2755.2	2478.0	2434.0
65°	18562.9	11957.2	2521.9	2562.5	3018.9	3559.8	3624.0	3110.2	2589.5	2319.1	2275.2
67.5°	14158.0	8661.1	2170.4	2342.8	2724.8	3187.9	3373.9	2961.4	2450.9	2194.0	2153.5
70°	8069.5	4918.8	1872.9	2129.8	2464.5	2843.1	3181.2	2843.1	2302.2	2089.2	2062.2
72.5°	3059.5	2258.2	1619.3	1916.8	2214.3	2552.4	2968.2	2657.2	2129.8	1970.9	1943.9
75°	1632.8	1375.9	1362.4	1666.6	1926.9	2268.4	2701.1	2474.6	2001.3	2082.5	2150.1
77.5°	1112.2	973.6	1139.3	1426.6	1612.6	1954.0	2417.1	2197.4	1734.3	1727.5	1592.3
80°	770.8	689.6	926.3	1149.4	1247.4	1643.0	2109.5	1886.4	1413.1	1318.4	1261.0
82.5°	463.1	449.6	693.0	858.7	882.3	1267.7	1747.8	1582.1	1156.2	1007.4	1014.2
85°	253.5	267.1	442.9	503.7	513.9	885.7	1369.1	1223.8	889.1	747.1	753.9
87.5°	71.0	91.3	162.3	199.5	246.8	459.8	814.7	726.8	446.2	311.0	311.0
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)