

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: P944329

Luminaire Tested: **GALN-SB9B-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944329
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-SB9B-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41877 lumens
Efficiency: N/A
Efficacy: 127.1 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

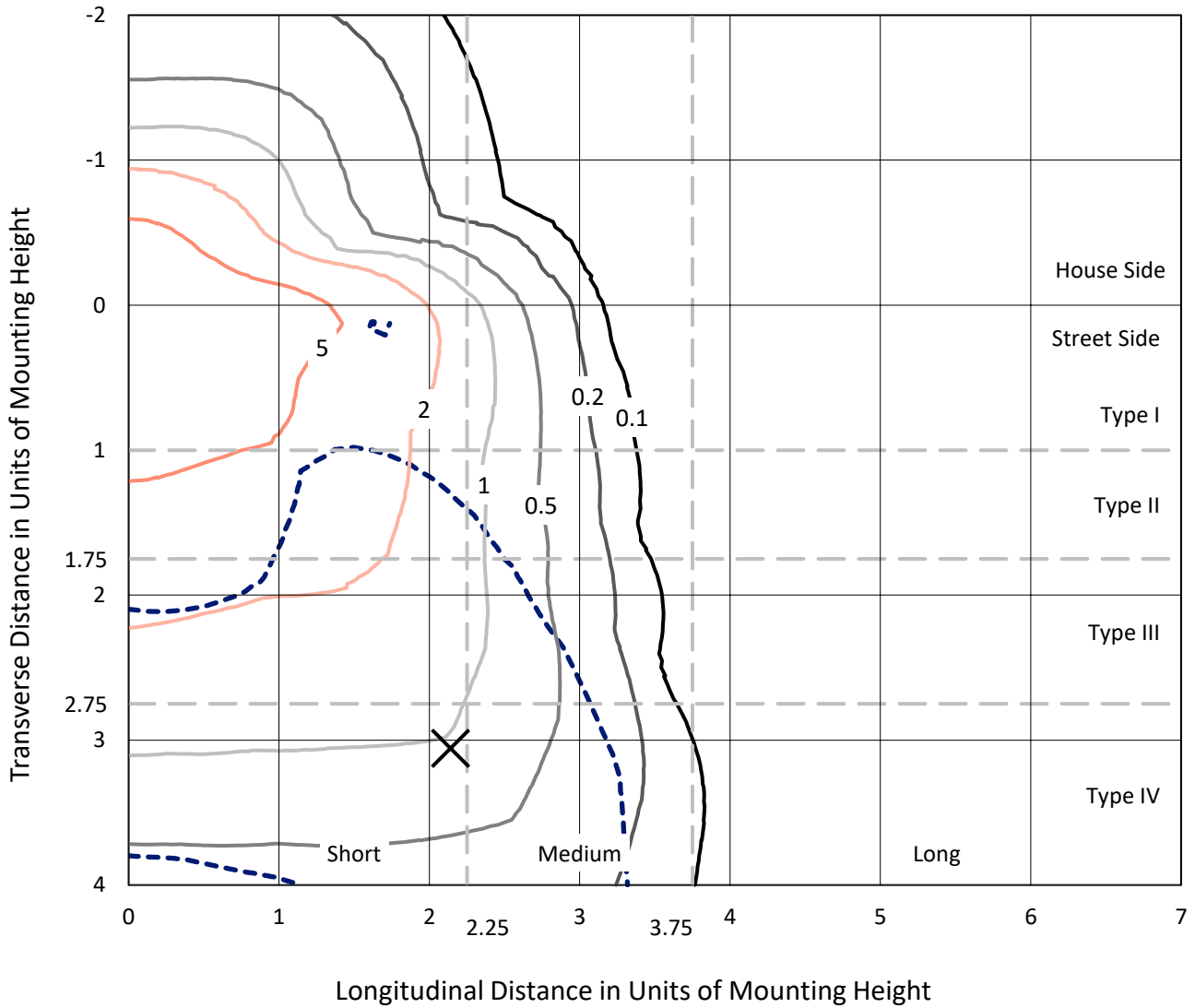
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

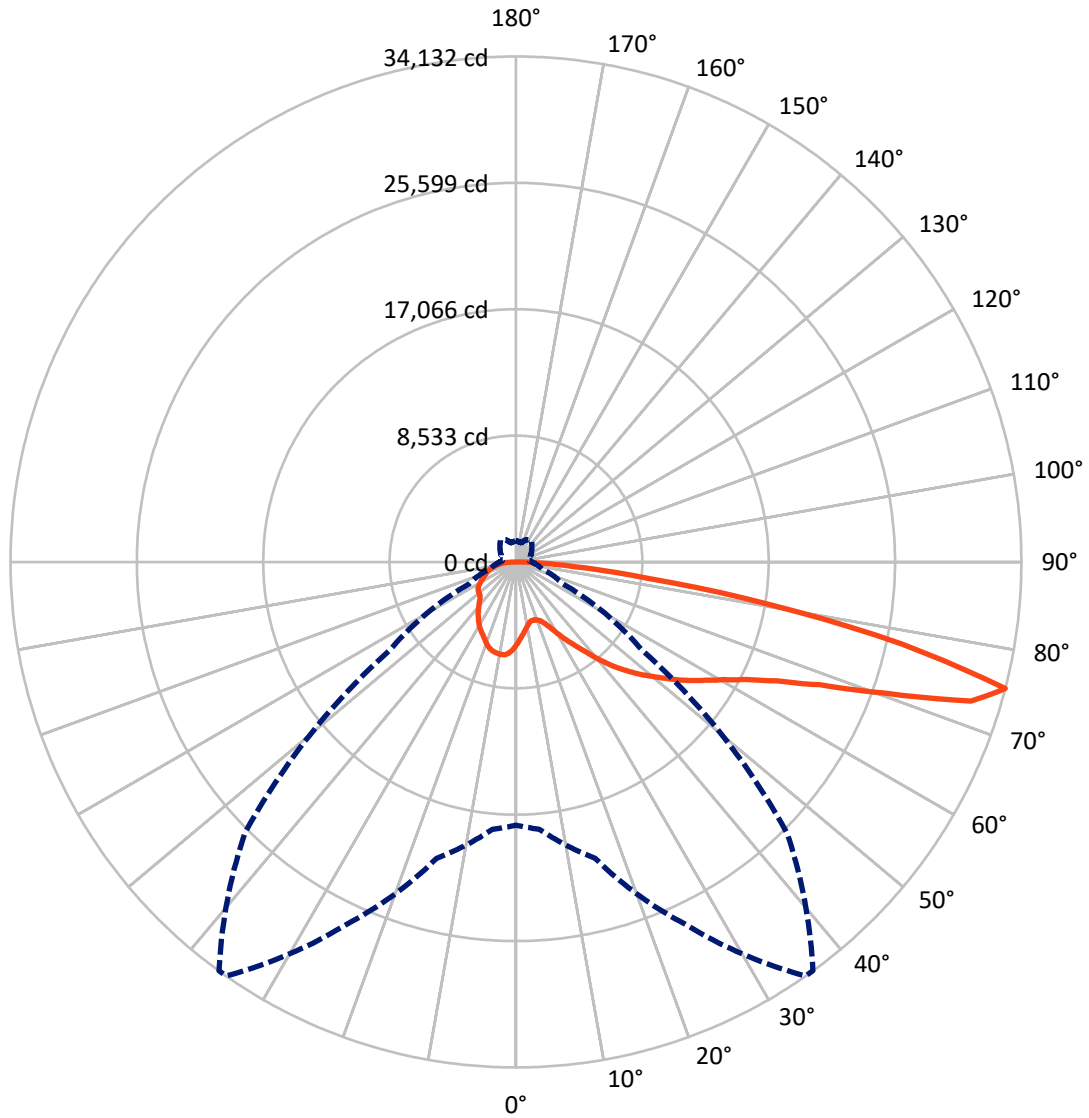
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9965.7	0.0	9965.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	31911.3	0.0	31911.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	41877.0	0.0	41877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.4	1.3
10°-20°	1524.0	3.6
20°-30°	2559.2	6.1
30°-40°	3977.3	9.5
40°-50°	5903.4	14.1
50°-60°	8150.0	19.5
60°-70°	9887.8	23.6
70°-80°	8171.5	19.5
80°-90°	1175.3	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°	41877.0	100.0
0°-180°	41877.0	100.0

Coefficient of Utilization



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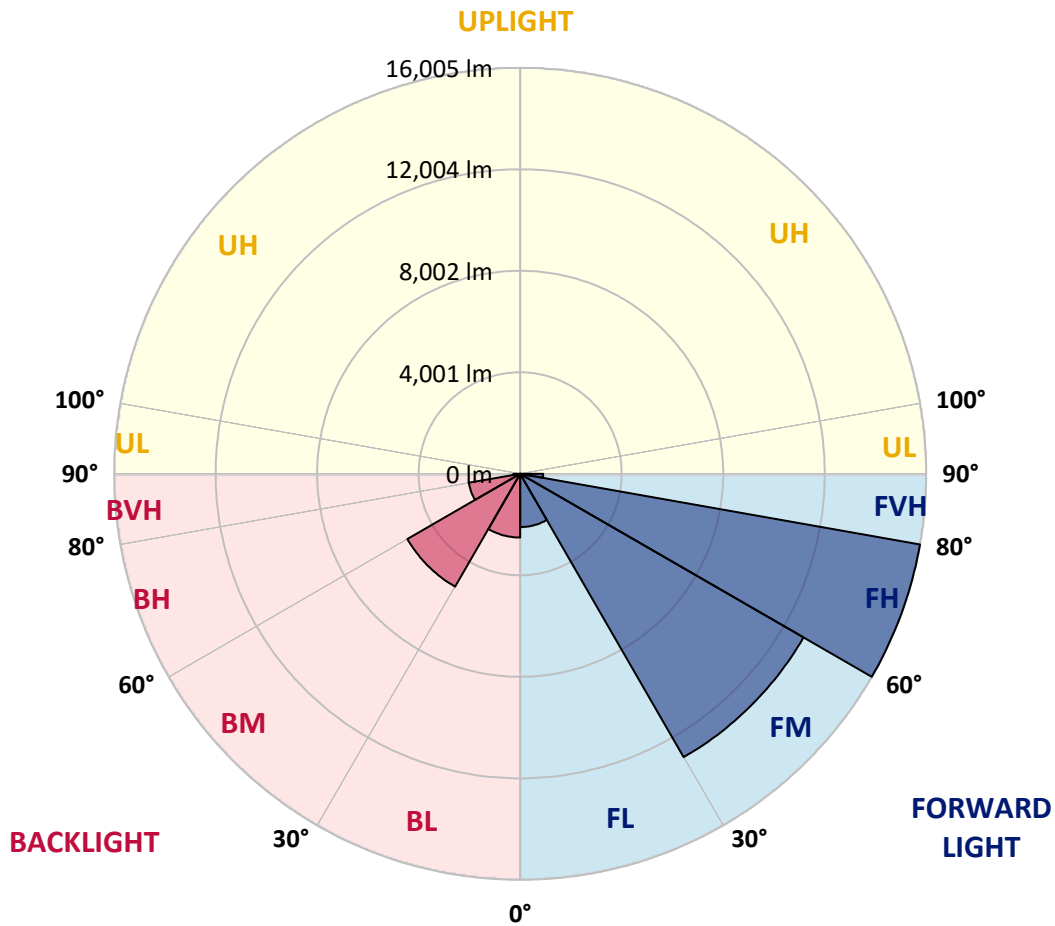
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.0	5.0			
FM (30°-60°)	12895.8	30.8			
FH (60°-80°)	16004.8	38.2			G5
FVH (80°-90°)	910.7	2.2			G5
BL (0°-30°)	2511.5	6.0	B4/5000		
BM (30°-60°)	5134.9	12.3	B4/8500		
BH (60°-80°)	2054.6	4.9	B3/2500		G3/2500
BVH (80°-90°)	264.7	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°	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4
2.5°	5145.7	5177.4	5191.0	5184.2	5218.2	5213.6	5261.2	5320.1	5401.5	5480.8	5596.2
5°	4749.6	4783.5	4812.9	4840.1	4905.8	4926.1	5000.8	5114.0	5263.5	5415.1	5605.3
7.5°	4380.6	4410.0	4455.3	4505.1	4616.0	4636.4	4760.9	4937.5	5145.7	5367.6	5630.2
10°	4079.5	4108.9	4156.4	4213.0	4351.1	4376.0	4534.5	4769.9	5041.6	5322.3	5657.4
12.5°	3950.4	3959.5	3986.6	4043.2	4163.2	4179.1	4353.4	4622.8	4939.7	5288.4	5698.1
15°	3943.6	3961.7	3964.0	3993.4	4093.0	4099.8	4260.6	4527.7	4876.3	5281.6	5759.2
17.5°	4011.5	4025.1	4004.8	4022.9	4106.6	4117.9	4244.7	4482.4	4856.0	5311.0	5863.4
20°	4192.7	4204.0	4142.8	4117.9	4179.1	4188.1	4312.6	4511.9	4876.3	5372.1	6006.0
22.5°	4577.5	4584.3	4434.9	4333.0	4337.5	4342.1	4450.7	4631.8	4955.6	5483.0	6187.1
25°	5177.4	5172.9	4935.2	4738.2	4625.0	4600.1	4672.6	4826.5	5089.1	5630.2	6420.3
27.5°	5879.2	5845.3	5607.6	5313.3	5066.5	5030.3	5014.4	5080.1	5279.3	5824.9	6705.5
30°	6671.6	6639.9	6384.1	5999.2	5657.4	5598.5	5449.1	5415.1	5562.3	6089.8	7101.7
32.5°	7540.9	7520.5	7214.9	6748.5	6291.2	6223.3	5972.0	5881.5	5996.9	6490.5	7654.1
35°	8269.8	8251.7	7998.2	7518.3	6959.1	6875.3	6619.5	6517.6	6576.5	7004.4	8376.2
37.5°	8928.6	8919.6	8702.2	8324.2	7746.9	7645.0	7357.5	7323.6	7312.2	7681.2	9252.4
40°	9539.9	9517.2	9290.8	9091.6	8663.8	8570.9	8317.4	8288.0	8201.9	8514.3	10243.9
42.5°	10216.8	10157.9	9829.6	9736.8	9621.4	9544.4	9392.7	9397.2	9207.1	9453.8	11294.4
45°	10769.1	10735.2	10397.9	10343.5	10468.0	10436.4	10567.7	10601.6	10232.6	10438.6	12385.5
47.5°	11362.3	11330.6	11045.3	11006.8	11344.2	11353.2	11817.3	11828.6	11233.2	11461.9	13479.0
50°	12093.5	12048.2	11765.2	11812.8	12190.8	12224.8	13073.7	12996.8	12154.6	12501.0	14563.4
52.5°	12575.7	12602.9	12541.7	12618.7	13134.9	13166.6	14309.8	14112.8	13066.9	13526.5	15627.4
55°	12931.1	12985.5	13175.6	13352.2	14131.0	14162.7	15475.7	15174.6	13823.1	14477.3	16628.0
57.5°	13388.4	13311.4	13666.9	14011.0	15077.2	15161.0	16609.9	16197.9	14493.2	15296.8	17313.9
60°	14044.9	13990.6	14266.8	14776.2	16136.7	16270.3	17809.7	17119.2	14984.4	15946.6	17447.5
62.5°	15376.1	15240.2	15283.3	15733.8	17472.4	17649.0	19163.5	17922.9	15228.9	16200.1	16732.1
65°	17366.0	17132.8	16915.5	17227.9	19353.7	19528.0	20691.6	18554.5	15138.4	15708.9	14832.8
67.5°	19872.1	19641.2	19374.0	19668.3	22124.6	22262.7	22577.4	18910.0	14425.3	13816.3	11475.5
70°	21939.0	21853.0	22172.2	23383.3	26550.4	26555.0	24995.2	18615.6	12471.6	9795.7	6639.9
72.5°	21665.1	21613.0	23295.0	27039.4	32128.6	32008.6	27283.9	16388.0	8401.2	4419.0	2488.0
75°	17773.5	18110.8	20716.5	26973.8	34132.1	34116.2	25882.6	10418.2	3475.0	1831.5	1285.9
77.5°	9530.8	10065.1	13449.5	19915.1	26645.5	27046.2	18196.8	3644.8	1491.9	1172.7	889.7
80°	3108.3	3574.6	5360.8	10139.8	17313.9	17239.2	7799.0	1430.8	1021.0	830.8	615.8
82.5°	1319.8	1374.2	2395.2	4788.0	8885.6	8747.5	2483.4	821.8	717.6	568.2	380.3
85°	516.2	577.3	1057.2	2214.0	3848.5	3764.8	896.5	407.5	459.6	371.3	226.4
87.5°	169.8	206.0	378.1	758.4	1197.6	1154.6	219.6	140.4	199.2	169.8	81.5
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°	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4	5580.4
2.5°	5627.9	5664.2	5707.2	5770.6	5824.9	5870.2	5917.7	5947.1	5958.5	5992.4	5990.2
5°	5668.7	5747.9	5854.3	5958.5	6060.3	6121.5	6175.8	6203.0	6227.9	6246.0	6250.5
7.5°	5736.6	5838.5	6006.0	6141.8	6227.9	6277.7	6313.9	6304.8	6313.9	6318.4	6325.2
10°	5795.5	5938.1	6137.3	6266.3	6332.0	6334.3	6325.2	6293.5	6277.7	6279.9	6284.5
12.5°	5865.6	6024.1	6239.2	6347.8	6365.9	6316.1	6277.7	6223.3	6203.0	6193.9	6189.4
15°	5960.7	6141.8	6350.1	6390.9	6345.6	6282.2	6216.5	6128.2	6083.0	6046.7	6058.1
17.5°	6076.2	6275.4	6436.1	6406.7	6309.4	6205.2	6098.8	5965.2	5872.4	5833.9	5836.2
20°	6236.9	6415.8	6501.8	6372.7	6225.6	6067.1	5886.0	5723.0	5637.0	5598.5	5594.0
22.5°	6431.6	6603.7	6565.2	6313.9	6105.6	5852.1	5625.7	5505.7	5462.7	5435.5	5440.0
25°	6664.8	6811.9	6610.4	6227.9	5908.7	5566.8	5392.5	5354.0	5333.6	5313.3	5313.3
27.5°	6968.1	7047.4	6644.4	6101.1	5600.8	5263.5	5200.1	5206.9	5200.1	5166.1	5172.9
30°	7368.8	7353.0	6676.1	5895.1	5247.6	4989.5	4994.1	5023.5	5028.0	5005.4	5016.7
32.5°	7896.3	7735.6	6691.9	5627.9	4910.3	4749.6	4754.1	4785.8	4808.4	4769.9	4788.0
35°	8534.7	8181.6	6667.0	5292.9	4650.0	4520.9	4487.0	4496.0	4502.8	4466.6	4491.5
37.5°	9279.5	8681.9	6556.1	4921.6	4434.9	4296.8	4224.3	4163.2	4127.0	4093.0	4115.7
40°	10096.8	9227.5	6352.4	4559.4	4194.9	4059.1	3950.4	3835.0	3712.7	3667.4	3687.8
42.5°	10952.5	9788.9	6105.6	4213.0	3918.7	3807.8	3692.3	3524.8	3341.4	3248.6	3259.9
45°	11839.9	10363.9	5863.4	3871.2	3635.7	3588.2	3454.6	3253.2	3053.9	2936.2	2927.2
47.5°	12709.3	10907.2	5508.0	3527.1	3370.9	3422.9	3318.8	3133.2	2911.3	2725.7	2705.3
50°	13540.1	11416.6	4926.1	3178.4	3155.8	3373.1	3273.5	3006.4	2752.8	2515.1	2494.8
52.5°	14364.1	11828.6	4181.3	2861.5	3040.4	3359.6	3214.7	2920.4	2610.2	2361.2	2334.0
55°	15063.7	12041.4	3463.7	2589.8	2872.8	3244.1	3144.5	2818.5	2408.7	2143.9	2121.2
57.5°	15462.1	11869.4	2866.0	2322.7	2641.9	3053.9	3024.5	2601.2	2168.8	1965.0	1937.9
60°	15290.1	11172.1	2377.0	2089.5	2422.3	2847.9	2816.2	2386.1	1985.4	1793.0	1765.8
62.5°	14341.5	9843.2	1989.9	1885.8	2223.1	2637.4	2608.0	2220.8	1845.0	1659.4	1630.0
65°	12430.8	8007.2	1688.8	1716.0	2021.6	2383.8	2426.8	2082.7	1734.1	1553.0	1523.6
67.5°	9481.0	5800.0	1453.4	1568.8	1824.7	2134.8	2259.3	1983.1	1641.3	1469.2	1442.1
70°	5403.8	3293.9	1254.2	1426.2	1650.3	1903.9	2130.3	1903.9	1541.7	1399.1	1380.9
72.5°	2048.8	1512.3	1084.4	1283.6	1482.8	1709.2	1987.7	1779.4	1426.2	1319.8	1301.7
75°	1093.4	921.4	912.3	1116.1	1290.4	1519.0	1808.8	1657.1	1340.2	1394.5	1439.8
77.5°	744.8	652.0	762.9	955.3	1079.9	1308.5	1618.7	1471.5	1161.4	1156.8	1066.3
80°	516.2	461.8	620.3	769.7	835.4	1100.2	1412.6	1263.2	946.3	882.9	844.4
82.5°	310.1	301.1	464.1	575.0	590.9	848.9	1170.4	1059.5	774.2	674.6	679.2
85°	169.8	178.8	296.6	337.3	344.1	593.1	916.9	819.5	595.4	500.3	504.8
87.5°	47.5	61.1	108.7	133.6	165.3	307.9	545.6	486.7	298.8	208.3	208.3
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)