

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: P957343

Luminaire Tested: **GALN-SB9D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
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-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78604 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - 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



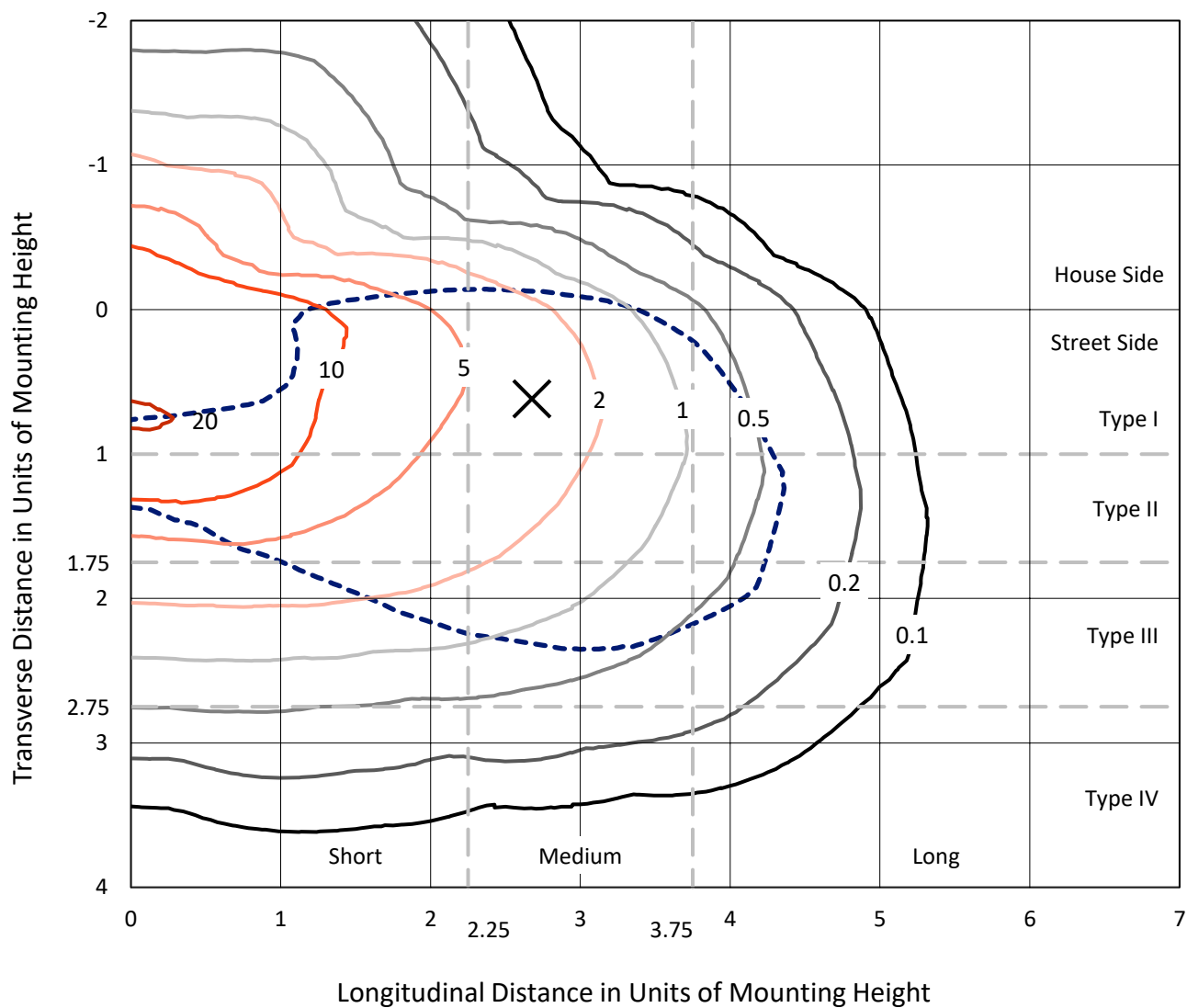
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Iso-Footcandle Lines of Horizontal Illumination

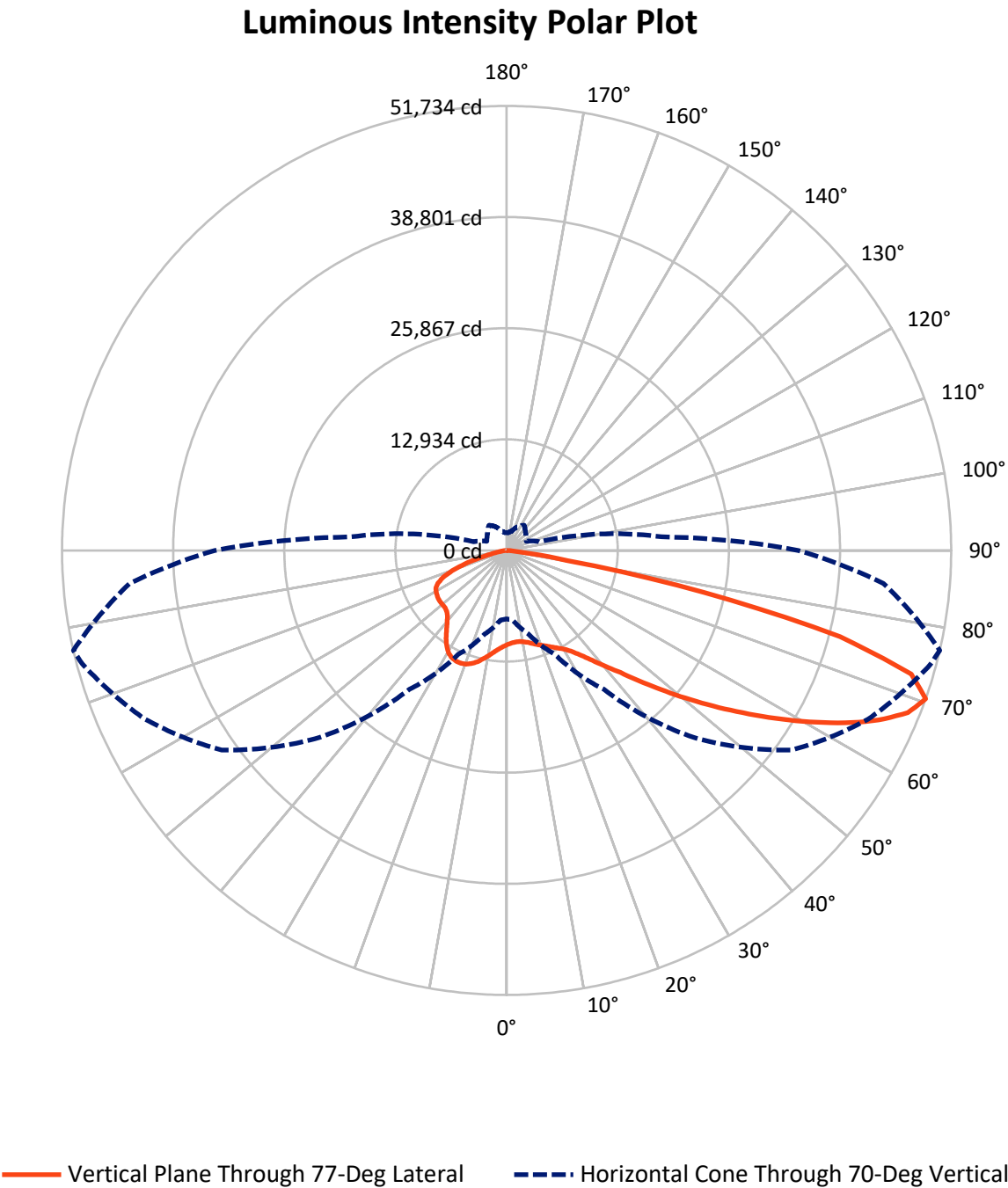
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17213.1	0.0	17213.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	61390.9	0.0	61390.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	78604.0	0.0	78604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.9	1.3
10°-20°	3018.5	3.8
20°-30°	5162.0	6.6
30°-40°	8301.0	10.6
40°-50°	12960.0	16.5
50°-60°	17311.5	22.0
60°-70°	18451.4	23.5
70°-80°	11358.5	14.5
80°-90°	995.3	1.3
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°	78604.0	100.0
0°-180°	78604.0	100.0

Coefficient of Utilization



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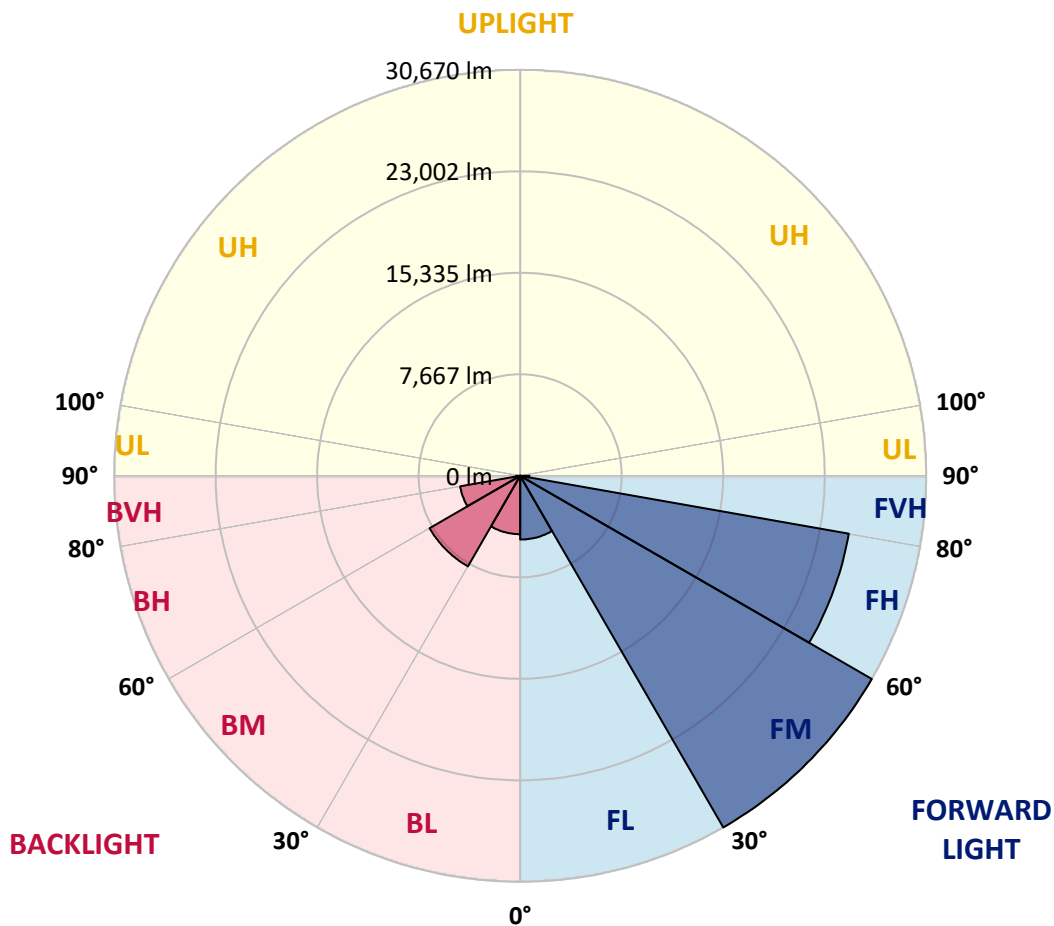
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4815.8	6.1			
FM	(30°-60°)	30669.6	39.0			
FH	(60°-80°)	25209.6	32.1			G5
FVH	(80°-90°)	696.0	0.9			G4/750
BL	(0°-30°)	4410.5	5.6	B4/5000		
BM	(30°-60°)	7902.9	10.1	B4/8500		
BH	(60°-80°)	4600.3	5.9	B4/5000		G4/5000
BVH	(80°-90°)	299.3	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0
2.5°	10108.5	10104.5	10156.8	10172.9	10269.5	10338.0	10466.8	10603.7	10780.8	10800.9	10909.6
5°	9524.8	9524.8	9585.2	9649.6	9774.4	9911.2	10108.5	10346.0	10652.0	10700.3	10970.0
7.5°	9029.6	9061.8	9114.2	9239.0	9383.9	9581.1	9883.1	10221.2	10623.8	10700.3	11135.1
10°	8631.1	8667.3	8731.7	8832.4	9049.7	9323.5	9718.0	10152.8	10692.2	10813.0	11376.6
12.5°	8506.3	8542.5	8578.7	8655.2	8856.5	9178.6	9649.6	10185.0	10857.3	10978.1	11706.7
15°	8796.1	8840.4	8812.2	8792.1	8896.8	9190.6	9681.8	10301.7	11062.6	11235.7	12113.3
17.5°	9464.4	9480.5	9416.1	9226.9	9210.8	9367.8	9834.8	10462.8	11320.2	11509.4	12523.9
20°	10543.3	10515.1	10382.3	10007.9	9794.5	9762.3	10096.4	10704.3	11585.9	11787.2	12966.7
22.5°	12008.6	11976.4	11710.7	11119.0	10643.9	10329.9	10474.8	11018.3	11883.8	12109.3	13397.5
25°	13836.3	13792.0	13401.5	12596.4	11859.7	11082.7	10990.1	11433.0	12250.2	12459.5	13848.4
27.5°	15969.9	15933.7	15511.0	14448.2	13385.4	12113.3	11630.2	11920.1	12632.6	12870.1	14355.6
30°	18264.5	18369.2	17620.4	16477.1	15132.6	13457.9	12491.7	12519.9	13127.8	13341.1	14971.5
32.5°	20961.8	21142.9	20241.2	18791.9	16956.2	14919.2	13578.6	13357.2	13848.4	14025.5	15748.5
35°	23634.8	23840.1	23091.3	21489.1	19375.6	16642.2	14713.9	14319.4	14806.5	14999.7	16779.1
37.5°	25945.6	26219.3	25832.8	24440.0	21964.2	18719.5	16195.3	15450.6	15986.0	16227.5	18163.9
40°	27769.2	28187.9	28159.7	27290.1	25015.6	21239.5	18075.3	16847.5	17451.4	17713.0	19842.6
42.5°	29250.7	29613.0	29927.0	29882.7	28199.9	24101.8	20285.4	18663.1	19122.0	19423.9	21730.7
45°	30273.2	30659.6	31336.0	32064.6	31263.5	27165.3	22817.6	20816.8	21235.5	21690.4	23981.0
47.5°	31187.0	31625.8	32503.4	33658.8	33864.1	30241.0	25591.3	23324.8	23707.3	24178.3	26239.4
50°	31267.5	31645.9	33006.6	34645.1	35711.9	33195.8	28570.3	26138.8	26497.1	27000.3	28658.9
52.5°	29323.1	29918.9	32294.1	34616.9	36561.3	35667.6	31529.2	29065.5	29468.0	30071.9	31162.9
55°	22761.2	23634.8	30204.7	33538.0	36259.4	37265.8	34343.1	32177.3	32692.6	33324.6	33682.9
57.5°	19605.1	19987.5	23977.0	31573.5	34882.6	37680.4	36718.3	35321.4	36150.7	36843.1	36347.9
60°	17620.4	17938.5	20297.5	28518.0	33071.0	37024.3	38554.0	38252.1	39685.2	40510.5	39073.3
62.5°	15494.9	15796.8	17942.5	23811.9	30752.2	35933.3	39713.4	40957.4	43308.4	44210.1	41641.7
65°	13385.4	13643.1	15700.2	20007.7	27805.4	34842.3	40313.2	43296.3	46661.8	47595.7	43775.3
67.5°	11034.4	11247.8	13192.2	16879.7	24222.6	33348.8	40611.1	45136.0	49580.4	50381.5	44830.1
70°	7962.8	8127.9	10136.7	13349.2	19725.9	30780.4	40490.4	46440.3	51094.0	51734.1	44033.0
72.5°	3764.0	3913.0	6272.0	8667.3	13932.9	25780.5	38046.8	45405.7	49556.2	49238.2	39153.8
75°	2008.8	2137.6	3603.0	4754.3	7359.0	17672.8	31134.7	39113.6	41613.5	40067.7	28936.6
77.5°	1360.7	1461.3	2230.2	2854.2	3361.4	8389.5	20011.7	27080.8	26054.3	23502.0	14492.5
80°	1078.9	1183.6	1827.7	1932.3	1626.4	3031.3	8268.8	12536.0	9005.5	7202.0	4122.3
82.5°	829.3	946.0	1537.8	1400.9	885.7	1243.9	2407.4	3965.3	2306.7	1755.2	998.4
85°	507.2	632.0	1207.7	893.7	499.2	567.6	817.2	1103.0	704.5	587.8	358.3
87.5°	257.6	362.3	611.9	326.1	225.4	132.8	217.4	217.4	185.2	161.0	92.6
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°	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0	10966.0
2.5°	11006.2	11086.7	11223.6	11352.4	11453.1	11549.7	11646.3	11698.7	11714.8	11779.2	11815.4
5°	11135.1	11284.0	11549.7	11799.3	11956.3	12052.9	12121.3	12161.6	12169.7	12189.8	12222.0
7.5°	11372.6	11610.1	11980.4	12230.0	12346.8	12338.7	12310.6	12209.9	12169.7	12133.4	12141.5
10°	11706.7	12020.7	12475.6	12648.7	12576.3	12383.0	12133.4	11839.5	11702.7	11569.8	11529.6
12.5°	12121.3	12519.9	12966.7	12958.7	12600.4	12105.2	11525.5	11074.7	10788.8	10583.5	10535.2
15°	12624.6	13083.5	13425.7	13151.9	12366.9	11477.2	10627.8	10040.1	9782.4	9557.0	9532.8
17.5°	13143.9	13635.0	13792.0	13091.5	11779.2	10547.3	9585.2	9122.2	8868.6	8747.8	8784.1
20°	13651.1	14138.2	14009.4	12745.3	10885.5	9492.6	8635.1	8381.5	8329.1	8357.3	8345.3
22.5°	14186.5	14621.3	14053.7	12077.1	9746.2	8413.7	7942.7	7950.7	8067.5	8152.0	8172.1
25°	14734.0	15027.9	13936.9	11110.9	8522.4	7620.6	7503.9	7632.7	7862.2	8027.2	8071.5
27.5°	15261.4	15390.2	13683.3	9915.3	7471.7	7053.0	7073.1	7338.8	7685.0	7914.5	7970.9
30°	15857.2	15712.3	13196.2	8570.7	6743.0	6565.9	6735.0	7045.0	7391.2	7596.5	7644.8
32.5°	16529.5	15990.0	12423.3	7326.8	6227.7	6175.4	6453.2	6654.5	6807.4	6867.8	6900.0
35°	17366.8	16380.5	11433.0	6453.2	5764.8	5889.6	6155.3	6054.6	5994.2	5962.0	5994.2
37.5°	18453.8	16907.9	10273.6	5885.6	5390.4	5684.3	5793.0	5479.0	5241.4	5124.7	5152.9
40°	19762.1	17680.8	9158.4	5446.8	5152.9	5507.1	5317.9	4939.5	4637.6	4472.5	4484.6
42.5°	21215.4	18490.0	8220.5	5116.6	5020.0	5362.2	4967.7	4516.8	4029.7	3977.4	4029.7
45°	22741.1	19323.3	7580.4	4863.0	4955.6	5237.4	4766.4	4037.8	3691.6	3904.9	4017.6
47.5°	24266.8	20088.2	7193.9	4673.8	4923.4	5096.5	4589.3	3772.1	3526.5	3836.5	3981.4
50°	25965.7	20772.6	7020.8	4537.0	4887.2	5040.2	4323.6	3703.6	3353.4	3558.7	3711.7
52.5°	27652.5	21303.9	6892.0	4400.1	4834.9	4995.9	4194.8	3623.1	3144.1	3156.1	3240.7
55°	29335.2	21650.2	6751.1	4218.9	4718.1	4899.3	4182.7	3534.6	2987.1	2930.7	2971.0
57.5°	31130.6	21847.4	6578.0	4017.6	4516.8	4653.7	4170.6	3466.1	2938.8	2846.2	2858.2
60°	32958.3	22137.3	6352.5	3772.1	4247.1	4359.8	4142.4	3442.0	2910.6	2753.6	2765.6
62.5°	34596.8	22237.9	6082.8	3538.6	3900.9	4070.0	4082.0	3421.8	2834.1	2564.4	2564.4
65°	35671.6	21803.1	5611.8	3272.9	3526.5	3772.1	3965.3	3353.4	2697.2	2427.5	2427.5
67.5°	35627.3	20563.2	4875.1	2930.7	3164.2	3442.0	3796.2	3236.7	2532.2	2258.4	2270.5
70°	33968.8	18115.6	3941.1	2532.2	2765.6	3087.7	3578.8	3063.5	2334.9	2073.2	2097.4
72.5°	29133.9	14178.5	2862.3	2065.2	2302.7	2721.4	3297.0	2854.2	2133.6	1908.2	1896.1
75°	20812.8	8973.3	1940.4	1586.1	1791.4	2306.7	2946.8	2608.6	1948.4	1916.2	1807.5
77.5°	10631.8	4287.4	1284.2	1159.4	1248.0	1819.6	2475.8	2330.9	1976.6	1582.1	1409.0
80°	3458.1	1582.1	809.2	789.0	829.3	1211.7	1916.2	1912.2	1497.6	1074.9	950.1
82.5°	1103.0	680.3	527.4	507.2	487.1	760.9	1336.5	1513.7	1010.4	680.3	676.3
85°	438.8	406.6	310.0	285.8	205.3	358.3	700.5	1006.4	752.8	491.1	503.2
87.5°	161.0	161.0	84.5	60.4	44.3	120.8	189.2	301.9	430.7	253.6	249.6
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)