

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: P942299

Luminaire Tested: **GALN-SB6B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942299
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-SB6B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31304 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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



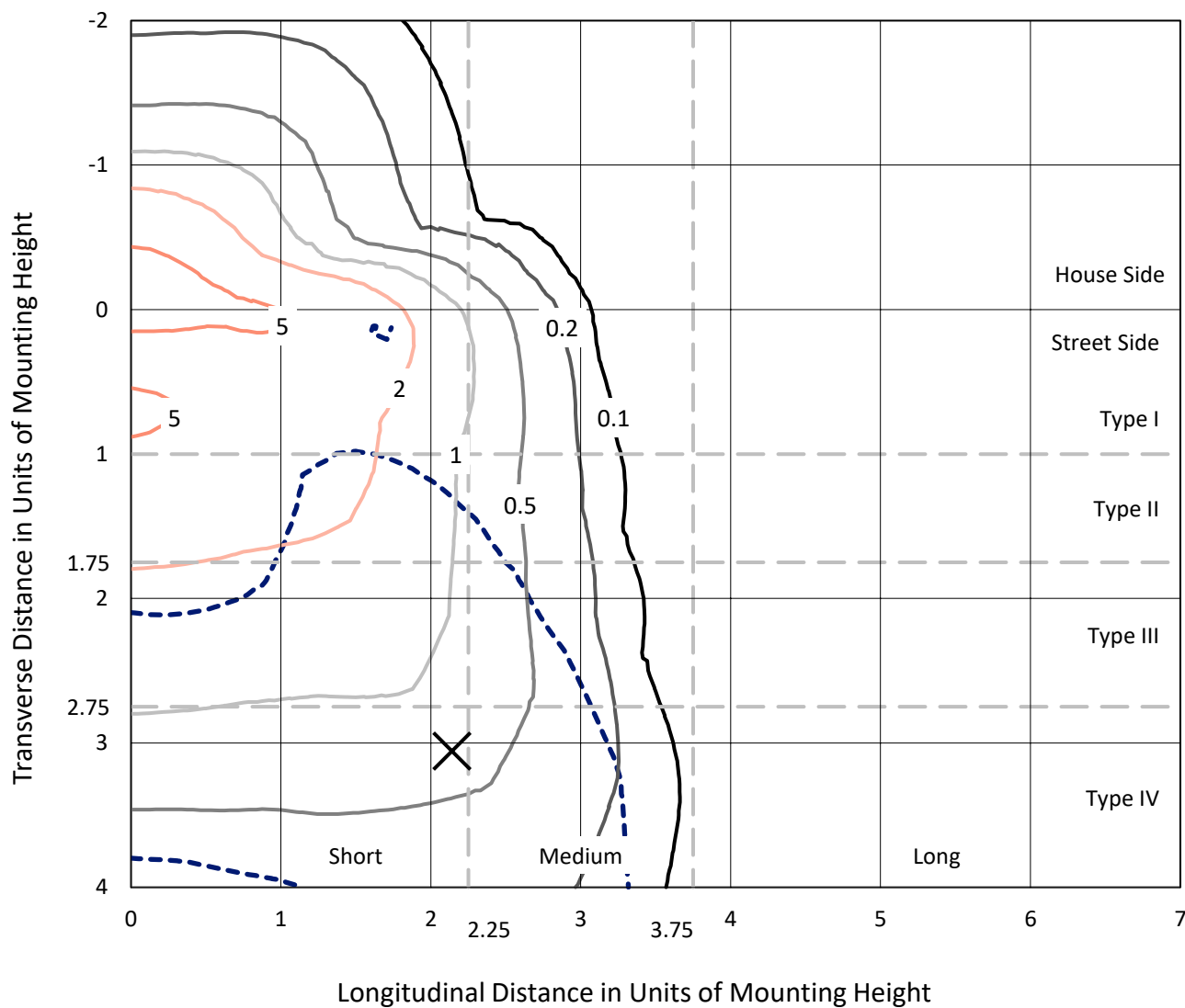
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



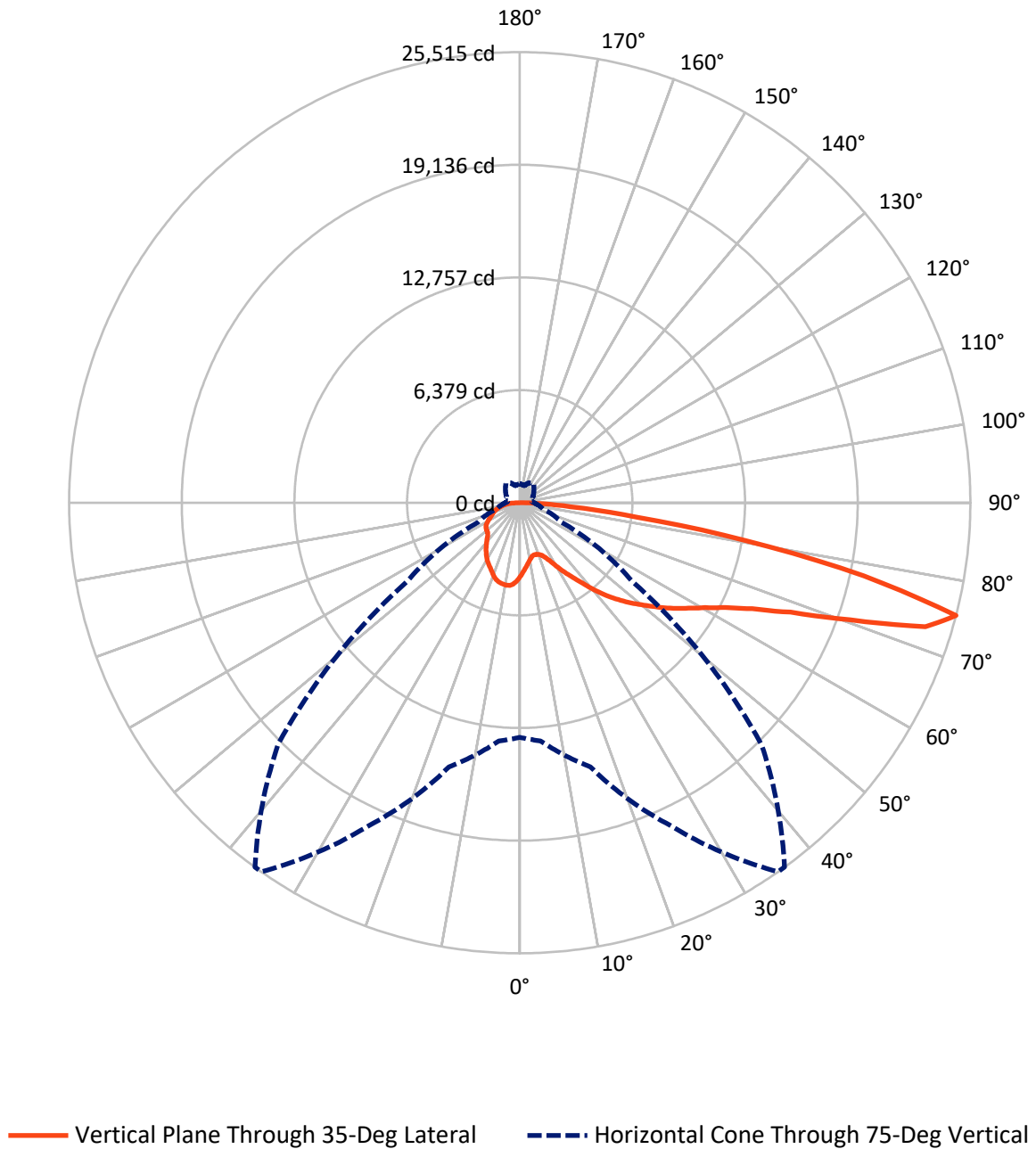
Based on 25 foot mounting height. Maximum calculated value = 7.4 fc

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	7449.6	0.0	7449.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	23854.4	0.0	23854.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	31304.0	0.0	31304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.3
10°-20°	1139.2	3.6
20°-30°	1913.0	6.1
30°-40°	2973.1	9.5
40°-50°	4412.9	14.1
50°-60°	6092.3	19.5
60°-70°	7391.4	23.6
70°-80°	6108.4	19.5
80°-90°	878.6	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°	31304.0	100.0
0°-180°	31304.0	100.0

Coefficient of Utilization



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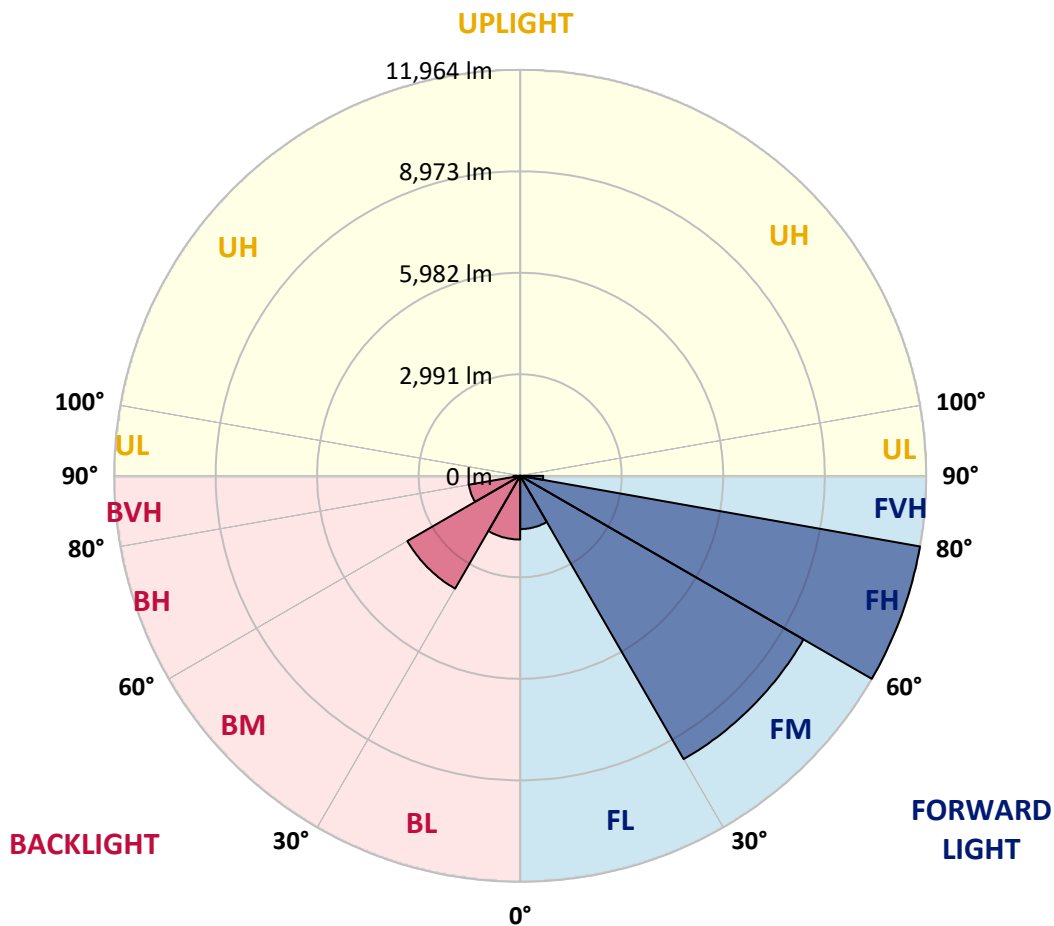
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1569.8	5.0			
FM	(30°-60°)	9639.9	30.8			
FH	(60°-80°)	11963.9	38.2			G4/12000
FVH	(80°-90°)	680.7	2.2			G4/750
BL	(0°-30°)	1877.4	6.0	B3/2500		
BM	(30°-60°)	3838.5	12.3	B3/5000		
BH	(60°-80°)	1535.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	197.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5
2.5°	3846.6	3870.2	3880.4	3875.3	3900.7	3897.3	3932.9	3976.9	4037.8	4097.0	4183.3
5°	3550.4	3575.8	3597.8	3618.1	3667.2	3682.4	3738.2	3822.9	3934.6	4047.9	4190.1
7.5°	3274.6	3296.6	3330.4	3367.6	3450.6	3465.8	3558.9	3690.9	3846.6	4012.4	4208.7
10°	3049.5	3071.5	3107.0	3149.3	3252.6	3271.2	3389.6	3565.6	3768.7	3978.5	4229.0
12.5°	2953.0	2959.8	2980.1	3022.4	3112.1	3123.9	3254.3	3455.6	3692.6	3953.2	4259.5
15°	2948.0	2961.5	2963.2	2985.2	3059.6	3064.7	3184.9	3384.6	3645.2	3948.1	4305.2
17.5°	2998.7	3008.9	2993.6	3007.2	3069.8	3078.3	3173.0	3350.7	3629.9	3970.1	4383.0
20°	3134.1	3142.6	3096.9	3078.3	3123.9	3130.7	3223.8	3372.7	3645.2	4015.8	4489.6
22.5°	3421.8	3426.9	3315.2	3239.0	3242.4	3245.8	3327.0	3462.4	3704.4	4098.7	4625.0
25°	3870.2	3866.9	3689.2	3541.9	3457.3	3438.7	3492.9	3607.9	3804.2	4208.7	4799.3
27.5°	4394.9	4369.5	4191.8	3971.8	3787.3	3760.2	3748.4	3797.5	3946.4	4354.2	5012.5
30°	4987.1	4963.5	4772.2	4484.5	4229.0	4185.0	4073.3	4047.9	4157.9	4552.2	5308.7
32.5°	5637.0	5621.8	5393.3	5044.7	4702.8	4652.1	4464.2	4396.5	4482.8	4851.8	5721.6
35°	6181.9	6168.4	5978.8	5620.1	5202.1	5139.5	4948.2	4872.1	4916.1	5235.9	6261.4
37.5°	6674.4	6667.6	6505.1	6222.5	5791.0	5714.8	5499.9	5474.5	5466.1	5741.9	6916.3
40°	7131.3	7114.3	6945.1	6796.2	6476.4	6407.0	6217.4	6195.4	6131.1	6364.7	7657.6
42.5°	7637.3	7593.3	7347.9	7278.5	7192.2	7134.7	7021.3	7024.7	6882.5	7067.0	8442.8
45°	8050.2	8024.8	7772.6	7732.0	7825.1	7801.4	7899.6	7924.9	7649.1	7803.1	9258.5
47.5°	8493.6	8469.9	8256.6	8227.9	8480.0	8486.8	8833.7	8842.2	8397.1	8568.0	10075.8
50°	9040.2	9006.3	8794.8	8830.3	9112.9	9138.3	9772.9	9715.4	9085.9	9344.8	10886.4
52.5°	9400.6	9420.9	9375.2	9432.8	9818.6	9842.3	10696.9	10549.7	9767.8	10111.4	11681.8
55°	9666.3	9706.9	9849.1	9981.1	10563.2	10586.9	11568.4	11343.4	10333.1	10822.1	12429.8
57.5°	10008.1	9950.6	10216.3	10473.5	11270.6	11333.2	12416.3	12108.3	10834.0	11434.7	12942.6
60°	10498.9	10458.3	10664.7	11045.5	12062.6	12162.4	13313.2	12797.0	11201.2	11920.4	13042.4
62.5°	11494.0	11392.4	11424.6	11761.3	13061.0	13193.0	14325.1	13397.8	11384.0	12110.0	12507.6
65°	12981.5	12807.2	12644.7	12878.2	14467.3	14597.6	15467.4	13869.9	11316.3	11742.7	11087.8
67.5°	14854.8	14682.2	14482.5	14702.5	16538.7	16641.9	16877.1	14135.6	10783.2	10328.0	8578.2
70°	16399.9	16335.6	16574.2	17479.6	19847.1	19850.4	18684.5	13915.6	9322.8	7322.5	4963.5
72.5°	16195.1	16156.2	17413.6	20212.6	24016.8	23927.1	20395.4	12250.4	6280.1	3303.3	1859.8
75°	13286.1	13538.2	15486.1	20163.5	25514.5	25502.7	19347.8	7787.9	2597.6	1369.1	961.2
77.5°	7124.5	7523.9	10053.8	14887.0	19918.1	20217.7	13602.5	2724.6	1115.2	876.6	665.1
80°	2323.5	2672.1	4007.3	7579.7	12942.6	12886.7	5829.9	1069.5	763.2	621.1	460.3
82.5°	986.6	1027.2	1790.4	3579.2	6642.2	6539.0	1856.4	614.3	536.5	424.8	284.3
85°	385.8	431.5	790.3	1655.0	2876.9	2814.3	670.1	304.6	343.5	277.5	169.2
87.5°	126.9	154.0	282.6	566.9	895.2	863.1	164.2	104.9	148.9	126.9	60.9
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°	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5	4171.5
2.5°	4207.0	4234.1	4266.2	4313.6	4354.2	4388.1	4423.6	4445.6	4454.1	4479.5	4477.8
5°	4237.5	4296.7	4376.2	4454.1	4530.2	4575.9	4616.5	4636.8	4655.5	4669.0	4672.4
7.5°	4288.2	4364.4	4489.6	4591.2	4655.5	4692.7	4719.8	4713.0	4719.8	4723.2	4728.2
10°	4332.2	4438.8	4587.8	4684.2	4733.3	4735.0	4728.2	4704.5	4692.7	4694.4	4697.8
12.5°	4384.7	4503.2	4663.9	4745.2	4758.7	4721.5	4692.7	4652.1	4636.8	4630.1	4626.7
15°	4455.8	4591.2	4746.8	4777.3	4743.5	4696.1	4647.0	4581.0	4547.2	4520.1	4528.5
17.5°	4542.1	4691.0	4811.2	4789.2	4716.4	4638.5	4559.0	4459.2	4389.8	4361.0	4362.7
20°	4662.2	4795.9	4860.2	4763.8	4653.8	4535.3	4399.9	4278.1	4213.8	4185.0	4181.6
22.5°	4807.8	4936.4	4907.6	4719.8	4564.1	4374.5	4205.3	4115.6	4083.5	4063.2	4066.5
25°	4982.1	5092.1	4941.5	4655.5	4416.9	4161.3	4031.0	4002.2	3987.0	3971.8	3971.8
27.5°	5208.8	5268.1	4966.8	4560.7	4186.7	3934.6	3887.2	3892.2	3887.2	3861.8	3866.9
30°	5508.4	5496.5	4990.5	4406.7	3922.7	3729.8	3733.2	3755.2	3758.6	3741.6	3750.1
32.5°	5902.7	5782.5	5002.4	4207.0	3670.6	3550.4	3553.8	3577.5	3594.4	3565.6	3579.2
35°	6379.9	6115.9	4983.8	3956.6	3475.9	3379.5	3354.1	3360.9	3365.9	3338.9	3357.5
37.5°	6936.7	6489.9	4900.8	3679.0	3315.2	3211.9	3157.8	3112.1	3085.0	3059.6	3076.6
40°	7547.6	6897.7	4748.5	3408.3	3135.8	3034.3	2953.0	2866.7	2775.3	2741.5	2756.7
42.5°	8187.2	7317.4	4564.1	3149.3	2929.3	2846.4	2760.1	2634.9	2497.8	2428.4	2436.9
45°	8850.6	7747.3	4383.0	2893.8	2717.8	2682.3	2582.4	2431.8	2282.9	2194.9	2188.1
47.5°	9500.5	8153.4	4117.3	2636.6	2519.8	2558.7	2480.9	2342.1	2176.3	2037.5	2022.3
50°	10121.5	8534.2	3682.4	2376.0	2359.0	2521.5	2447.0	2247.3	2057.8	1880.1	1864.9
52.5°	10737.5	8842.2	3125.6	2139.0	2272.7	2511.3	2403.0	2183.0	1951.2	1765.0	1744.7
55°	11260.4	9001.2	2589.2	1936.0	2147.5	2425.0	2350.6	2106.9	1800.6	1602.6	1585.7
57.5°	11558.3	8872.6	2142.4	1736.3	1974.9	2282.9	2260.9	1944.4	1621.2	1468.9	1448.6
60°	11429.7	8351.4	1776.9	1562.0	1810.7	2128.9	2105.2	1783.7	1484.1	1340.3	1320.0
62.5°	10720.6	7358.0	1487.5	1409.7	1661.8	1971.5	1949.5	1660.1	1379.2	1240.4	1218.4
65°	9292.3	5985.6	1262.4	1282.7	1511.2	1782.0	1814.1	1556.9	1296.3	1160.9	1138.9
67.5°	7087.3	4335.6	1086.4	1172.7	1364.0	1595.8	1688.9	1482.4	1226.9	1098.3	1078.0
70°	4039.5	2462.3	937.5	1066.1	1233.7	1423.2	1592.4	1423.2	1152.4	1045.8	1032.3
72.5°	1531.5	1130.4	810.6	959.5	1108.4	1277.7	1485.8	1330.1	1066.1	986.6	973.1
75°	817.4	688.8	682.0	834.3	964.6	1135.5	1352.1	1238.7	1001.8	1042.4	1076.3
77.5°	556.8	487.4	570.3	714.1	807.2	978.1	1210.0	1100.0	868.1	864.8	797.1
80°	385.8	345.2	463.7	575.4	624.5	822.4	1056.0	944.3	707.4	660.0	631.2
82.5°	231.8	225.1	346.9	429.8	441.7	634.6	874.9	792.0	578.8	504.3	507.7
85°	126.9	133.7	221.7	252.1	257.2	443.4	685.4	612.6	445.1	374.0	377.4
87.5°	35.5	45.7	81.2	99.8	123.5	230.2	407.8	363.8	223.4	155.7	155.7
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)