

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: P941117

Luminaire Tested: **GALN-SB4C-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30035 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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

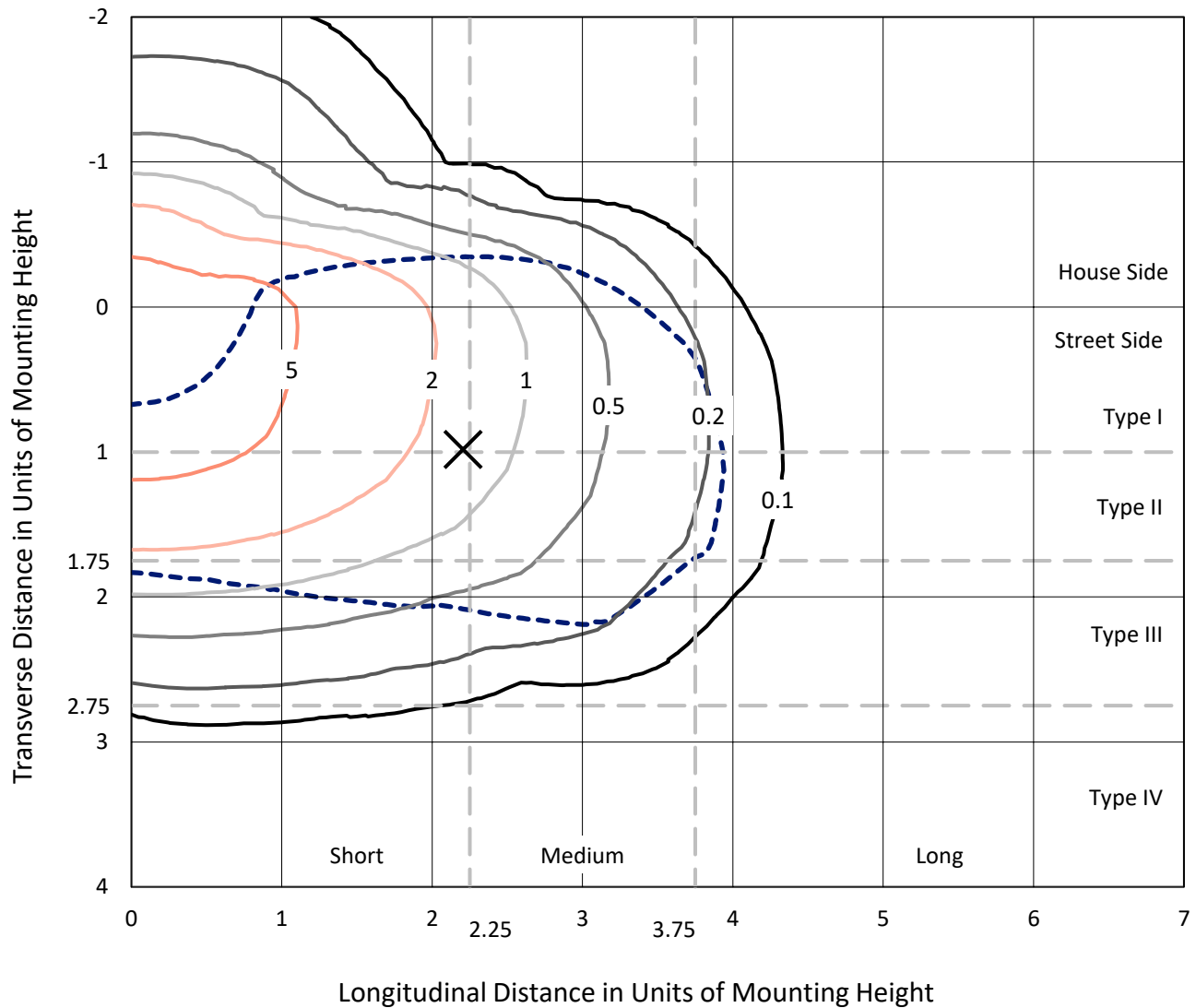


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

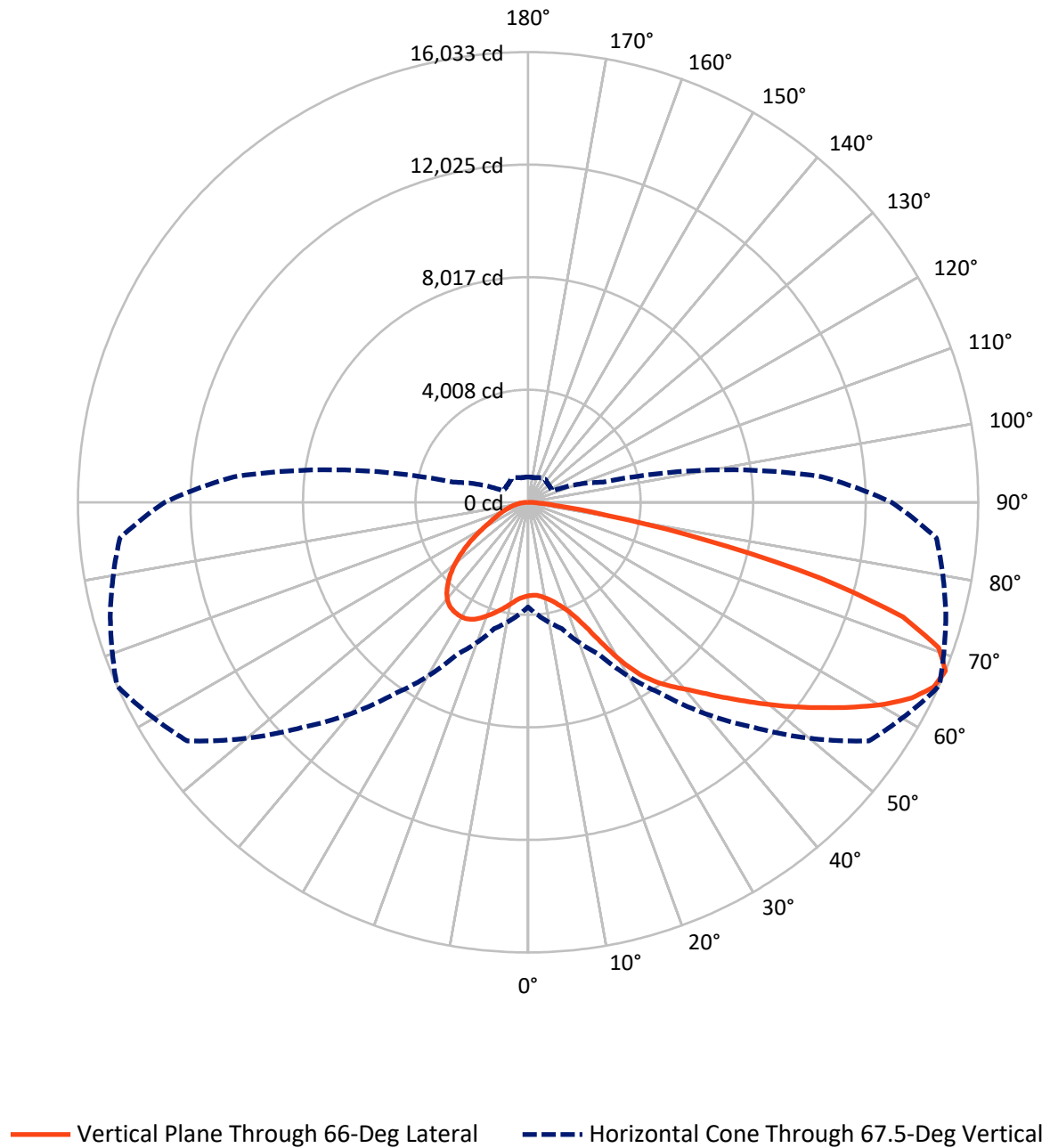


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7468.1	0.0	7468.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22566.9	0.0	22566.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	30035.0	0.0	30035.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.3	1.1
10°-20°	1091.2	3.6
20°-30°	2103.2	7.0
30°-40°	3687.8	12.3
40°-50°	5482.5	18.3
50°-60°	6949.6	23.1
60°-70°	6800.0	22.6
70°-80°	3243.7	10.8
80°-90°	346.7	1.2
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°	30035.0	100.0
0°-180°	30035.0	100.0

Coefficient of Utilization



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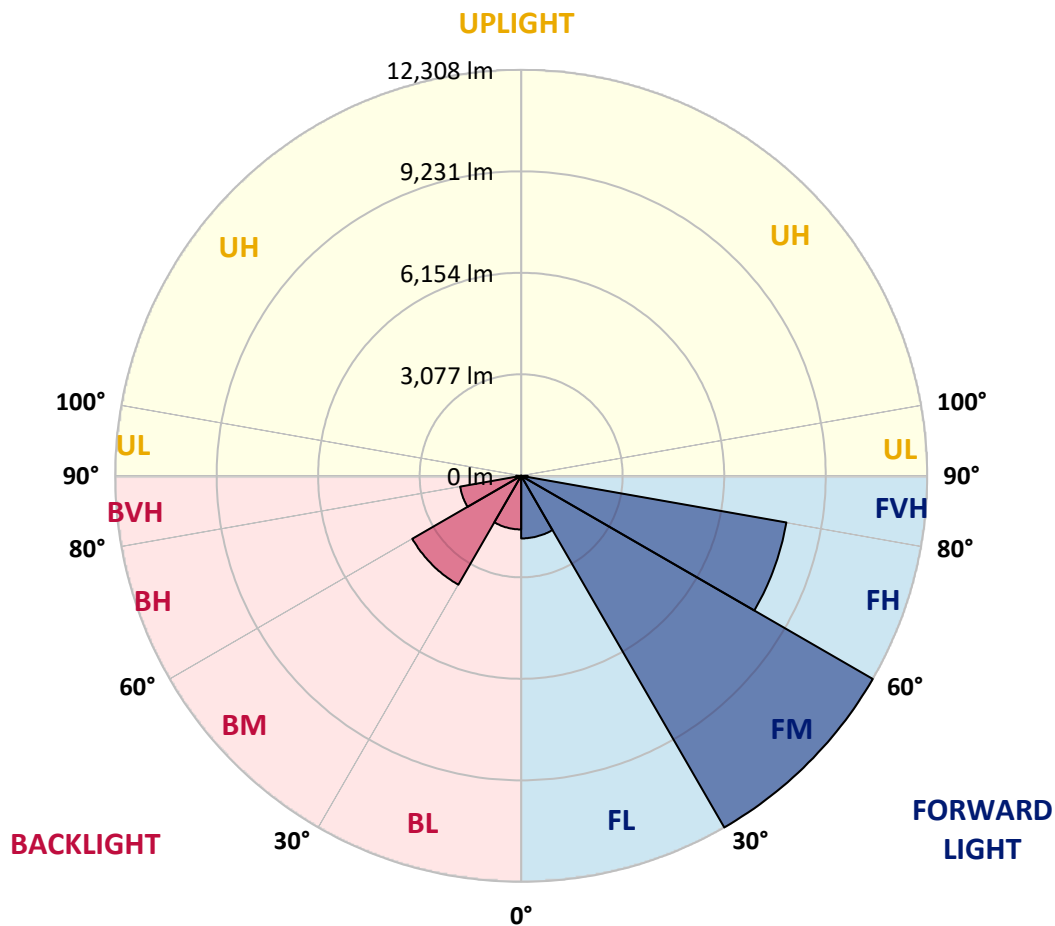
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1897.9	6.3			
FM	(30°-60°)	12308.1	41.0			
FH	(60°-80°)	8164.3	27.2			G4/12000
FVH	(80°-90°)	196.5	0.7			G2/225
BL	(0°-30°)	1626.8	5.4	B3/2500		
BM	(30°-60°)	3811.8	12.7	B3/5000		
BH	(60°-80°)	1879.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	150.1	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3
2.5°	3296.6	3315.5	3310.8	3302.9	3301.3	3304.5	3309.2	3313.9	3312.3	3320.2	3332.9
5°	3287.1	3306.0	3304.5	3304.5	3310.8	3323.4	3331.3	3339.2	3331.3	3340.7	3358.1
7.5°	3293.4	3307.6	3313.9	3320.2	3336.0	3359.7	3378.6	3396.0	3386.5	3397.6	3419.6
10°	3373.9	3384.9	3391.2	3391.2	3402.3	3429.1	3448.1	3479.6	3471.7	3489.1	3517.5
12.5°	3520.6	3531.7	3531.7	3525.4	3533.3	3550.6	3556.9	3591.7	3577.5	3605.9	3634.3
15°	3700.5	3722.6	3705.3	3694.2	3697.4	3714.7	3713.2	3740.0	3725.8	3749.5	3774.7
17.5°	3899.4	3927.8	3899.4	3897.8	3891.5	3910.4	3912.0	3935.7	3910.4	3927.8	3945.1
20°	4134.5	4174.0	4150.3	4158.2	4144.0	4151.9	4159.8	4194.5	4155.0	4167.6	4162.9
22.5°	4465.9	4513.2	4488.0	4518.0	4508.5	4502.2	4500.6	4562.2	4500.6	4505.4	4459.6
25°	4948.8	5005.6	4961.4	5002.4	5002.4	5023.0	5046.6	5125.5	5023.0	4993.0	4874.6
27.5°	5662.1	5718.9	5632.1	5657.3	5649.4	5699.9	5674.7	5870.4	5759.9	5711.0	5472.7
30°	6520.5	6621.5	6457.4	6451.1	6443.2	6523.7	6560.0	6689.4	6577.3	6528.4	6241.2
32.5°	7448.4	7554.2	7358.5	7301.7	7271.7	7320.6	7290.6	7394.8	7317.5	7241.7	6886.6
35°	8430.0	8534.1	8347.9	8237.5	8117.5	8015.0	7907.6	7934.5	7861.9	7746.7	7379.0
37.5°	9357.9	9548.8	9351.6	9233.2	9012.3	8811.9	8512.0	8387.4	8319.5	8213.8	7842.9
40°	10303.1	10412.0	10262.1	10161.1	9921.2	9607.2	9127.5	8863.9	8772.4	8669.8	8355.8
42.5°	10999.1	11103.2	11022.7	10953.3	10765.5	10401.0	9780.8	9451.0	9318.4	9203.2	8936.5
45°	11551.4	11628.7	11578.2	11603.5	11523.0	11169.5	10457.8	10080.6	9943.3	9802.9	9593.0
47.5°	11773.9	11855.9	11936.4	12086.3	12223.6	11963.3	11185.3	10762.3	10617.2	10473.6	10266.8
50°	11748.6	11832.3	12065.8	12384.6	12810.7	12723.9	11952.2	11488.3	11354.1	11190.0	10999.1
52.5°	11546.6	11641.3	11941.2	12471.4	13149.9	13293.6	12733.3	12237.8	12111.6	11915.9	11725.0
55°	11016.4	11073.2	11523.0	12274.1	13230.4	13691.2	13498.7	13036.3	12910.1	12637.1	12428.8
57.5°	10033.3	10115.3	10770.2	11742.3	13028.4	13961.1	14171.0	13875.9	13754.3	13361.4	13143.6
60°	8750.3	8881.3	9630.9	10849.1	12514.0	13959.5	14781.7	14701.2	14600.2	14074.7	13847.5
62.5°	7298.5	7450.0	8171.2	9586.7	11614.5	13563.4	15163.6	15392.4	15340.3	14732.7	14442.4
65°	5605.3	5709.4	6427.4	7953.4	10214.8	12712.8	15207.7	15864.2	15873.7	15233.0	14753.3
67.5°	3732.1	4031.9	4655.3	5968.2	8340.0	11322.6	14819.5	15941.5	16033.1	15405.0	14597.0
70°	1821.1	2215.6	2826.3	3878.9	5968.2	9190.6	13804.8	15307.2	15510.7	14903.2	13666.0
72.5°	755.9	883.7	1216.7	1914.2	3426.0	6201.8	11766.0	13587.1	13964.2	13205.2	11489.8
75°	509.7	552.3	695.9	981.6	1560.7	3058.3	8485.2	10131.1	10738.7	9973.3	8152.2
77.5°	392.9	419.8	506.6	686.5	927.9	1156.7	4541.6	6105.5	6419.5	5943.0	4241.8
80°	309.3	329.8	378.7	500.2	658.0	618.6	1548.1	2766.3	2947.8	2472.8	1363.4
82.5°	268.3	276.2	271.4	339.3	437.1	361.4	508.1	1021.0	1126.7	817.4	445.0
85°	194.1	216.2	225.7	209.9	232.0	183.1	208.3	361.4	397.7	355.1	250.9
87.5°	78.9	116.8	143.6	135.7	85.2	52.1	64.7	105.7	121.5	132.6	82.1
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°	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3	3331.3
2.5°	3334.4	3345.5	3353.4	3362.8	3369.2	3378.6	3397.6	3408.6	3410.2	3418.1	3416.5
5°	3364.4	3380.2	3397.6	3422.8	3451.2	3474.9	3511.2	3536.4	3545.9	3553.8	3552.2
7.5°	3429.1	3451.2	3482.8	3527.0	3568.0	3599.5	3643.7	3673.7	3703.7	3714.7	3716.3
10°	3525.4	3556.9	3602.7	3662.7	3706.9	3747.9	3793.6	3818.9	3848.9	3861.5	3867.8
12.5°	3645.3	3678.5	3738.4	3822.1	3863.1	3891.5	3907.3	3901.0	3907.3	3918.3	3921.5
15°	3782.6	3818.9	3886.8	3976.7	4005.1	3979.9	3945.1	3913.6	3908.8	3912.0	3923.0
17.5°	3945.1	3972.0	4050.9	4126.6	4106.1	4002.0	3926.2	3875.7	3850.5	3842.6	3853.6
20°	4172.4	4172.4	4237.1	4284.4	4147.1	3970.4	3852.0	3770.0	3717.9	3695.8	3691.1
22.5°	4448.5	4423.3	4464.3	4431.2	4139.2	3882.0	3717.9	3575.9	3497.0	3465.4	3460.7
25°	4798.9	4768.9	4757.8	4552.7	4082.4	3741.6	3474.9	3302.9	3233.4	3216.1	3219.2
27.5°	5327.5	5251.8	5108.2	4619.0	3978.3	3520.6	3190.8	3031.4	2992.0	2993.6	2998.3
30°	6031.3	5879.8	5527.9	4630.0	3807.9	3208.2	2900.5	2786.8	2767.9	2775.8	2802.6
32.5°	6683.1	6539.5	5957.2	4579.5	3545.9	2902.0	2640.1	2564.3	2535.9	2545.4	2558.0
35°	7194.4	7154.9	6354.8	4508.5	3224.0	2614.8	2406.5	2341.8	2286.6	2274.0	2283.4
37.5°	7677.2	7661.5	6653.1	4409.1	2905.2	2411.3	2218.7	2133.5	2053.1	2008.9	2010.4
40°	8207.5	8191.7	6848.8	4256.0	2622.7	2234.5	2049.9	1937.9	1838.4	1758.0	1765.8
42.5°	8804.0	8710.9	6941.9	4036.7	2382.9	2084.6	1912.6	1761.1	1630.1	1556.0	1560.7
45°	9455.7	9245.8	6940.3	3757.4	2180.9	1947.3	1765.8	1551.2	1429.7	1360.3	1357.1
47.5°	10146.9	9757.1	6855.1	3448.1	1985.2	1795.8	1538.6	1374.5	1294.0	1251.4	1241.9
50°	10860.2	10235.3	6709.9	3093.0	1784.8	1623.8	1396.6	1284.5	1223.0	1183.5	1169.3
52.5°	11530.9	10669.2	6534.7	2690.6	1581.2	1456.5	1333.5	1246.7	1182.0	1137.8	1118.8
55°	12154.2	11043.2	6287.0	2278.7	1415.5	1344.5	1303.5	1230.9	1156.7	1104.6	1084.1
57.5°	12708.1	11286.3	5859.3	1892.1	1297.2	1267.2	1271.9	1204.1	1118.8	1074.7	1046.3
60°	13168.9	11464.6	5226.5	1533.9	1200.9	1191.4	1223.0	1153.6	1054.1	1003.6	981.6
62.5°	13445.0	11461.4	4450.1	1256.1	1118.8	1122.0	1158.3	1090.4	989.4	942.1	927.9
65°	13421.4	11180.5	3598.0	1074.7	1039.9	1043.1	1090.4	1021.0	935.8	907.4	905.8
67.5°	12946.4	10495.7	2760.0	956.3	953.1	967.3	1022.6	973.7	902.6	899.5	904.2
70°	11660.3	9073.8	1988.4	861.6	863.2	883.7	956.3	943.7	885.3	891.6	890.0
72.5°	9350.0	6918.2	1335.0	762.2	763.8	796.9	893.2	920.0	867.9	951.6	964.2
75°	6227.0	4314.4	858.5	656.5	658.0	700.7	837.9	874.2	820.6	948.4	956.3
77.5°	2992.0	1939.4	621.8	552.3	552.3	591.8	724.3	782.7	699.1	737.0	675.4
80°	1033.6	729.1	489.2	445.0	435.5	462.4	610.7	678.6	602.8	555.5	520.8
82.5°	407.1	378.7	392.9	345.6	314.0	331.4	475.0	560.2	443.4	400.8	399.2
85°	233.6	246.2	277.7	228.8	181.5	203.6	348.8	402.4	334.5	295.1	301.4
87.5°	63.1	86.8	127.8	118.4	82.1	86.8	165.7	222.5	192.5	148.3	153.1
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)