

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: P948819

Luminaire Tested: **GALN-SB3D-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30472 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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

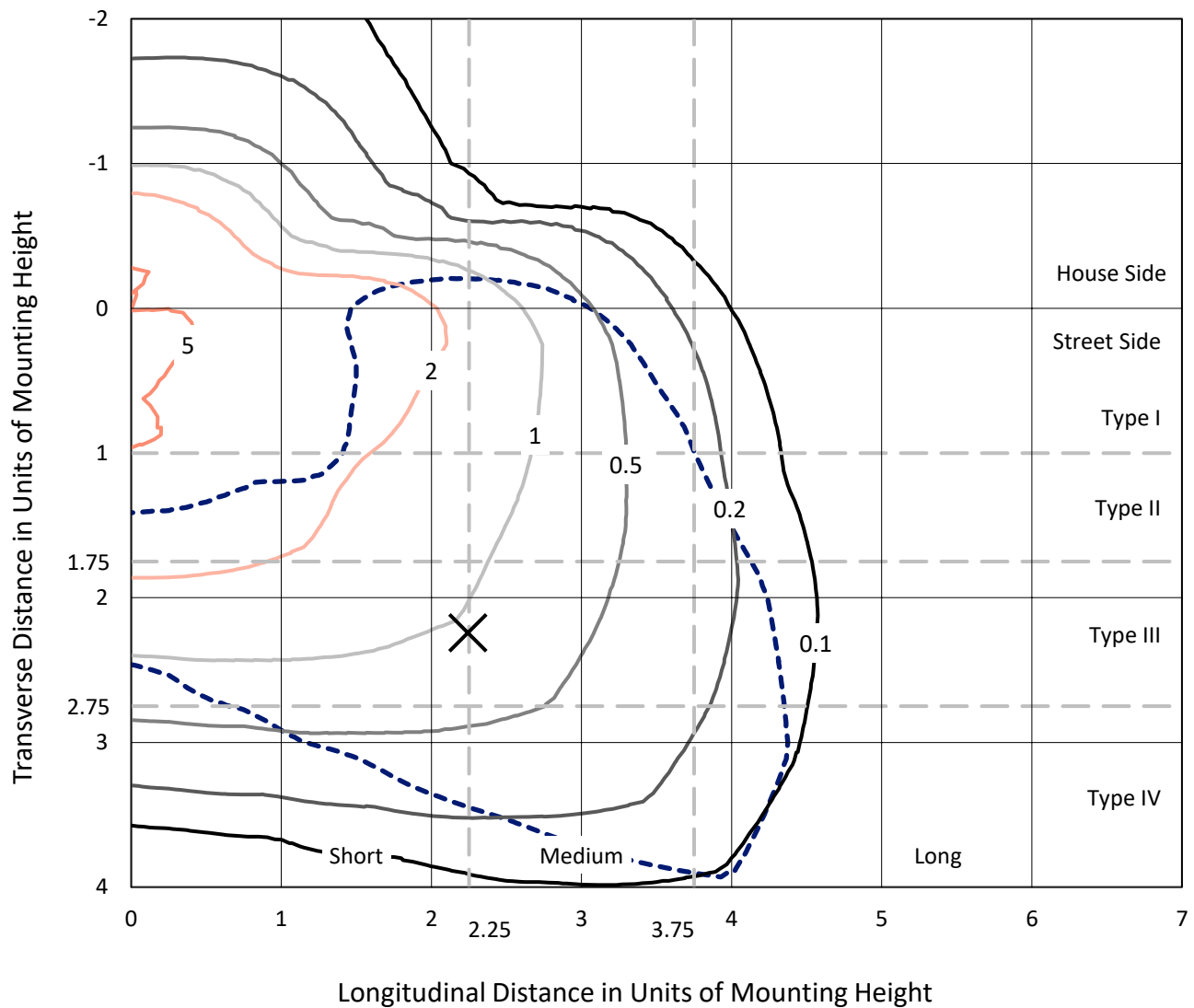


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

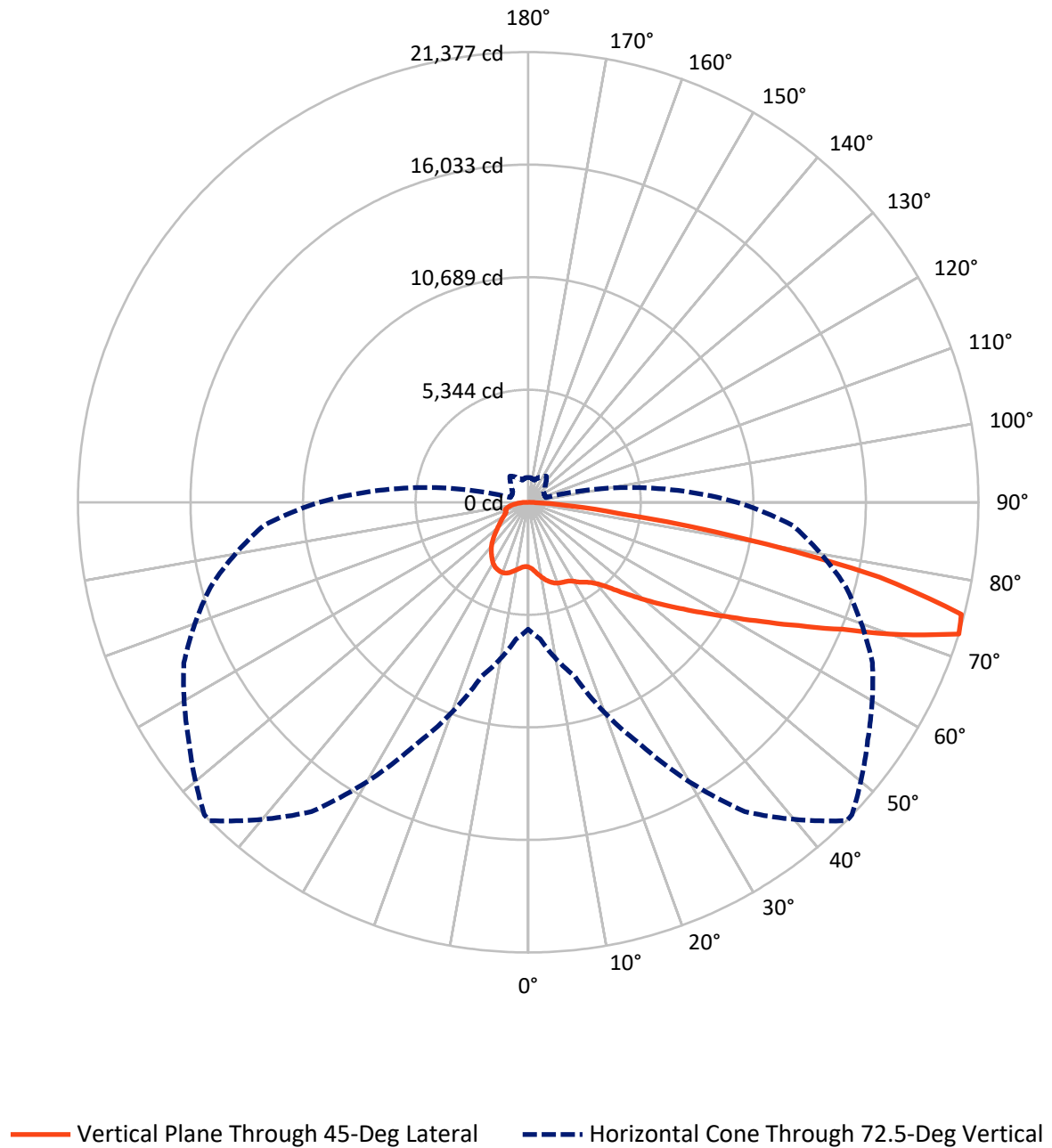


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6888.7	0.0	6888.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23583.3	0.0	23583.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	30472.0	0.0	30472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.0
10°-20°	1043.2	3.4
20°-30°	1814.7	6.0
30°-40°	2601.4	8.5
40°-50°	3662.9	12.0
50°-60°	5610.5	18.4
60°-70°	8127.7	26.7
70°-80°	6490.4	21.3
80°-90°	808.3	2.7
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°	30472.0	100.0
0°-180°	30472.0	100.0

Coefficient of Utilization



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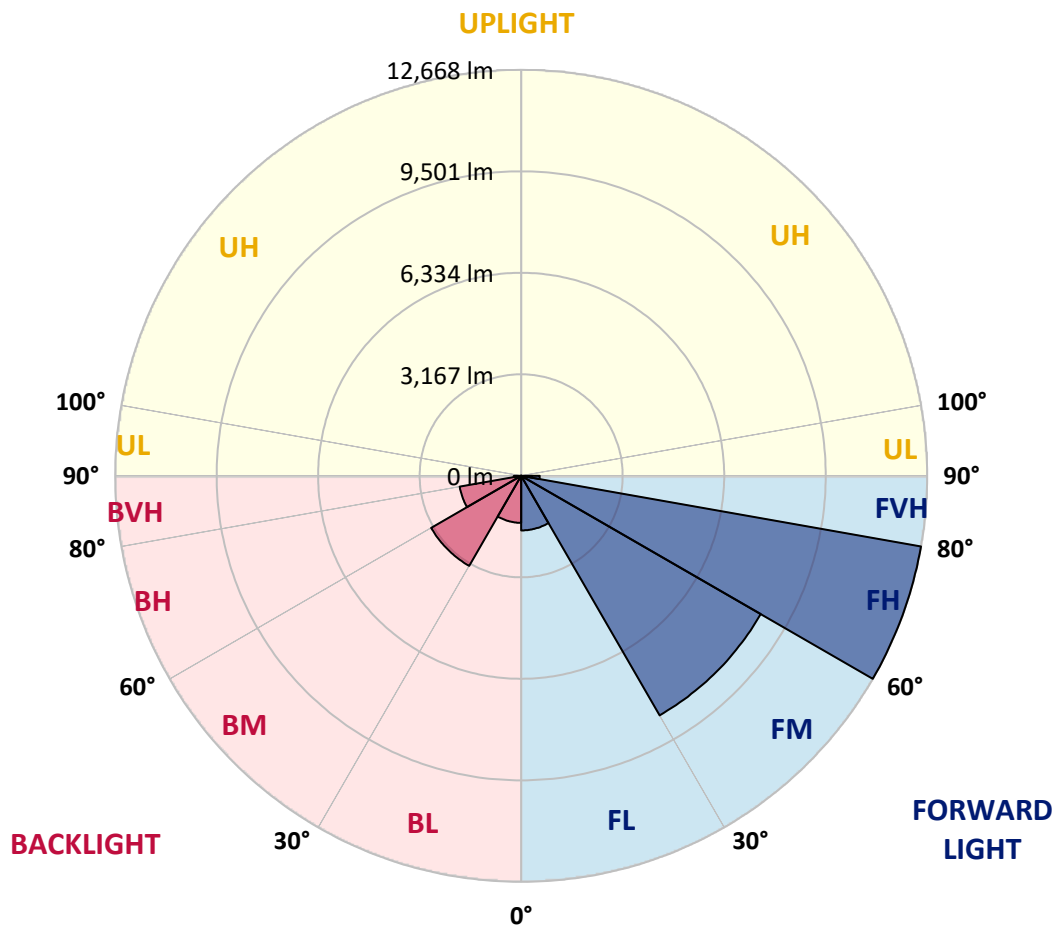
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.0	5.6			
FM	(30°-60°)	8631.3	28.3			
FH	(60°-80°)	12668.1	41.6			G5
FVH	(80°-90°)	579.9	1.9			G4/750
BL	(0°-30°)	1466.7	4.8	B3/2500		
BM	(30°-60°)	3243.6	10.6	B3/5000		
BH	(60°-80°)	1950.0	6.4	B3/2500		G3/2500
BVH	(80°-90°)	228.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0
2.5°	3194.4	3215.3	3196.0	3178.4	3170.3	3149.5	3147.9	3135.0	3127.0	3104.5	3098.1
5°	3417.6	3444.8	3412.7	3377.4	3345.3	3293.9	3287.5	3250.6	3208.9	3160.7	3133.4
7.5°	3669.6	3693.7	3656.7	3603.8	3547.6	3462.5	3460.9	3393.5	3327.7	3245.8	3199.2
10°	3889.5	3921.6	3871.8	3799.6	3729.0	3632.7	3621.4	3544.4	3460.9	3354.9	3284.3
12.5°	4083.7	4106.2	4058.0	3969.8	3887.9	3791.6	3777.1	3692.0	3598.9	3478.6	3388.7
15°	4237.8	4266.7	4202.5	4107.8	4021.1	3926.4	3913.6	3836.5	3743.4	3616.6	3501.0
17.5°	4339.0	4363.0	4297.2	4191.3	4107.8	4029.1	4019.5	3955.3	3873.4	3745.0	3621.4
20°	4377.5	4403.2	4334.1	4226.6	4149.5	4088.5	4083.7	4037.2	3981.0	3863.8	3738.6
22.5°	4416.0	4440.1	4350.2	4237.8	4170.4	4131.9	4130.3	4099.8	4077.3	3981.0	3859.0
25°	4571.7	4578.1	4457.7	4295.6	4199.3	4165.6	4164.0	4162.4	4172.0	4096.6	3989.0
27.5°	4706.6	4705.0	4602.2	4449.7	4300.4	4229.8	4228.2	4244.3	4274.8	4212.1	4123.9
30°	4904.0	4886.3	4764.3	4605.4	4469.0	4359.8	4350.2	4335.7	4359.8	4310.1	4258.7
32.5°	5323.0	5266.8	5069.3	4786.8	4608.6	4525.2	4512.3	4422.4	4432.1	4401.6	4375.9
35°	5923.3	5849.5	5586.2	5130.3	4782.0	4663.2	4656.8	4542.8	4523.6	4496.3	4505.9
37.5°	6637.7	6546.2	6239.6	5628.0	5080.6	4823.7	4814.1	4711.4	4632.7	4603.8	4658.4
40°	7355.2	7239.6	6986.0	6234.7	5520.4	5091.8	5061.3	4905.6	4815.7	4767.6	4883.1
42.5°	8051.9	7955.6	7738.9	6915.4	6063.0	5483.5	5416.1	5149.6	5082.2	5037.2	5245.9
45°	8668.3	8581.6	8422.7	7642.5	6698.7	6016.4	5950.6	5515.6	5494.7	5494.7	5796.5
47.5°	9169.1	9149.9	8981.3	8384.2	7448.3	6623.2	6509.2	6024.5	6080.6	6167.3	6578.3
50°	9724.5	9671.6	9491.8	9114.5	8329.6	7318.3	7225.2	6648.9	6859.2	7096.8	7708.4
52.5°	10235.0	10263.9	10063.2	9875.4	9324.8	8093.6	7929.9	7385.7	7840.0	8233.3	9032.7
55°	10759.9	10761.5	10705.3	10679.7	10368.2	8950.8	8771.0	8271.8	8994.2	9482.1	10576.9
57.5°	11252.7	11255.9	11339.4	11565.7	11578.6	9939.6	9735.8	9360.1	10276.7	10774.4	12169.3
60°	11692.6	11715.0	11943.0	12472.7	12642.9	11072.9	10880.3	10645.9	11602.7	12103.5	13843.6
62.5°	11840.2	11922.1	12429.4	13182.2	13694.3	12463.1	12273.7	12134.0	12996.0	13461.5	15243.3
65°	11589.8	11777.6	12758.4	13768.1	14776.2	14114.9	13927.0	13774.6	14443.9	14882.2	16392.7
67.5°	10975.0	11217.4	12739.2	14382.9	16089.3	16102.1	15927.2	15569.2	15996.2	16164.8	16766.7
70°	9355.3	9718.1	11617.1	14612.5	17596.6	18819.8	18651.3	17729.9	17545.3	16729.8	15713.7
72.5°	6027.7	6515.7	8554.3	12723.1	17932.1	21377.0	21367.3	19680.2	18034.9	15631.8	12602.7
75°	2199.2	2497.8	3974.6	7986.1	15052.3	21246.9	21309.5	19346.3	16463.3	12074.6	7851.2
77.5°	801.0	876.5	1297.0	3069.2	9257.4	17047.6	17177.7	15466.5	11718.2	6059.8	3111.0
80°	420.6	462.3	664.6	1191.1	3966.5	10124.2	10328.1	9191.6	5507.6	1825.2	932.6
82.5°	232.8	252.0	372.4	646.9	1786.6	4329.3	4451.3	3631.0	1937.5	773.7	385.3
85°	125.2	133.2	175.0	353.2	873.2	1500.9	1534.6	1085.1	772.1	454.3	186.2
87.5°	36.9	44.9	57.8	112.4	341.9	337.1	345.1	215.1	305.0	229.5	61.0
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°	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0	3074.0
2.5°	3088.5	3083.7	3066.0	3058.0	3048.3	3046.7	3054.8	3056.4	3058.0	3059.6	3066.0
5°	3117.4	3101.3	3085.3	3075.6	3078.8	3080.5	3096.5	3107.7	3115.8	3122.2	3125.4
7.5°	3173.6	3160.7	3133.4	3131.8	3136.6	3151.1	3172.0	3197.6	3212.1	3223.3	3226.5
10°	3257.0	3233.0	3200.8	3205.7	3215.3	3236.2	3279.5	3300.4	3324.4	3345.3	3340.5
12.5°	3342.1	3321.2	3284.3	3287.5	3303.6	3340.5	3382.2	3407.9	3424.0	3440.0	3446.4
15°	3452.9	3415.9	3375.8	3375.8	3404.7	3444.8	3464.1	3485.0	3494.6	3512.3	3518.7
17.5°	3566.8	3518.7	3465.7	3462.5	3497.8	3517.1	3528.3	3531.5	3534.7	3554.0	3560.4
20°	3680.8	3627.8	3552.4	3546.0	3554.0	3550.8	3549.2	3546.0	3550.8	3574.9	3584.5
22.5°	3793.2	3732.2	3627.8	3598.9	3576.5	3546.0	3544.4	3542.8	3546.0	3570.1	3586.1
25°	3924.8	3851.0	3711.3	3624.6	3549.2	3507.4	3512.3	3513.9	3517.1	3536.3	3562.0
27.5°	4067.7	3985.8	3788.4	3616.6	3480.2	3451.3	3443.2	3448.1	3459.3	3489.8	3520.3
30°	4210.5	4114.2	3859.0	3584.5	3393.5	3353.3	3327.7	3338.9	3374.2	3404.7	3438.4
32.5°	4340.6	4244.3	3915.2	3513.9	3282.7	3220.1	3186.4	3200.8	3236.2	3247.4	3287.5
35°	4493.1	4383.9	3939.3	3401.5	3162.3	3066.0	3021.1	3000.2	3017.8	3006.6	3041.9
37.5°	4663.2	4549.2	3936.0	3253.8	3021.1	2910.3	2847.7	2769.0	2732.1	2693.6	2717.7
40°	4915.2	4751.5	3897.5	3075.6	2846.1	2745.0	2632.6	2499.4	2415.9	2340.4	2345.3
42.5°	5258.8	5032.4	3826.9	2879.8	2648.6	2553.9	2401.4	2245.7	2114.1	1988.9	1977.7
45°	5770.8	5400.0	3738.6	2671.1	2435.1	2342.0	2176.7	2001.7	1852.4	1691.9	1672.7
47.5°	6509.2	5894.4	3655.1	2433.5	2210.4	2125.3	1976.0	1813.9	1637.3	1481.6	1464.0
50°	7523.8	6604.0	3578.1	2202.4	1988.9	1924.7	1805.9	1640.6	1462.4	1337.2	1329.1
52.5°	8814.4	7568.7	3546.0	1979.3	1781.8	1757.7	1663.0	1508.9	1340.4	1234.4	1226.4
55°	10296.0	8722.9	3546.0	1765.8	1600.4	1608.4	1542.6	1399.8	1253.7	1159.0	1149.4
57.5°	11808.1	9891.5	3481.8	1568.3	1446.3	1480.0	1438.3	1313.1	1181.5	1083.5	1067.5
60°	13201.5	10870.7	3221.7	1388.5	1309.9	1362.8	1335.6	1228.0	1067.5	985.6	972.8
62.5°	14272.2	11422.9	2720.9	1245.7	1197.5	1258.5	1244.1	1115.6	1046.6	1012.9	1001.7
65°	14808.3	11333.0	2080.4	1118.9	1102.8	1197.5	1167.0	1162.2	1107.6	1069.1	1056.2
67.5°	14479.3	10559.3	1508.9	1025.7	1048.2	1141.3	1258.5	1277.8	1176.6	1101.2	1088.4
70°	13036.1	9159.5	1123.7	937.5	979.2	1142.9	1435.1	1337.2	1154.2	1065.9	1051.4
72.5°	9917.2	6830.3	871.6	844.4	889.3	1151.0	1513.7	1309.9	1090.0	1178.2	1168.6
75°	5671.3	3749.8	699.9	730.4	776.9	1075.5	1473.6	1239.2	1040.2	1081.9	1081.9
77.5°	2162.3	1441.5	577.9	618.0	624.4	939.1	1409.4	1234.4	990.4	966.4	881.3
80°	749.6	563.4	478.4	491.2	483.2	834.7	1351.6	1073.9	810.6	725.6	701.5
82.5°	306.6	280.9	378.8	362.8	343.5	648.5	1091.6	878.1	663.0	585.9	579.5
85°	133.2	178.2	250.4	219.9	199.0	449.5	874.9	743.2	560.2	483.2	481.6
87.5°	27.3	67.4	105.9	99.5	102.7	300.2	621.2	528.1	396.5	297.0	232.8
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)