

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: P942817

Luminaire Tested: **GALN-SB7A-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942817
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-SB7A-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31923 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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

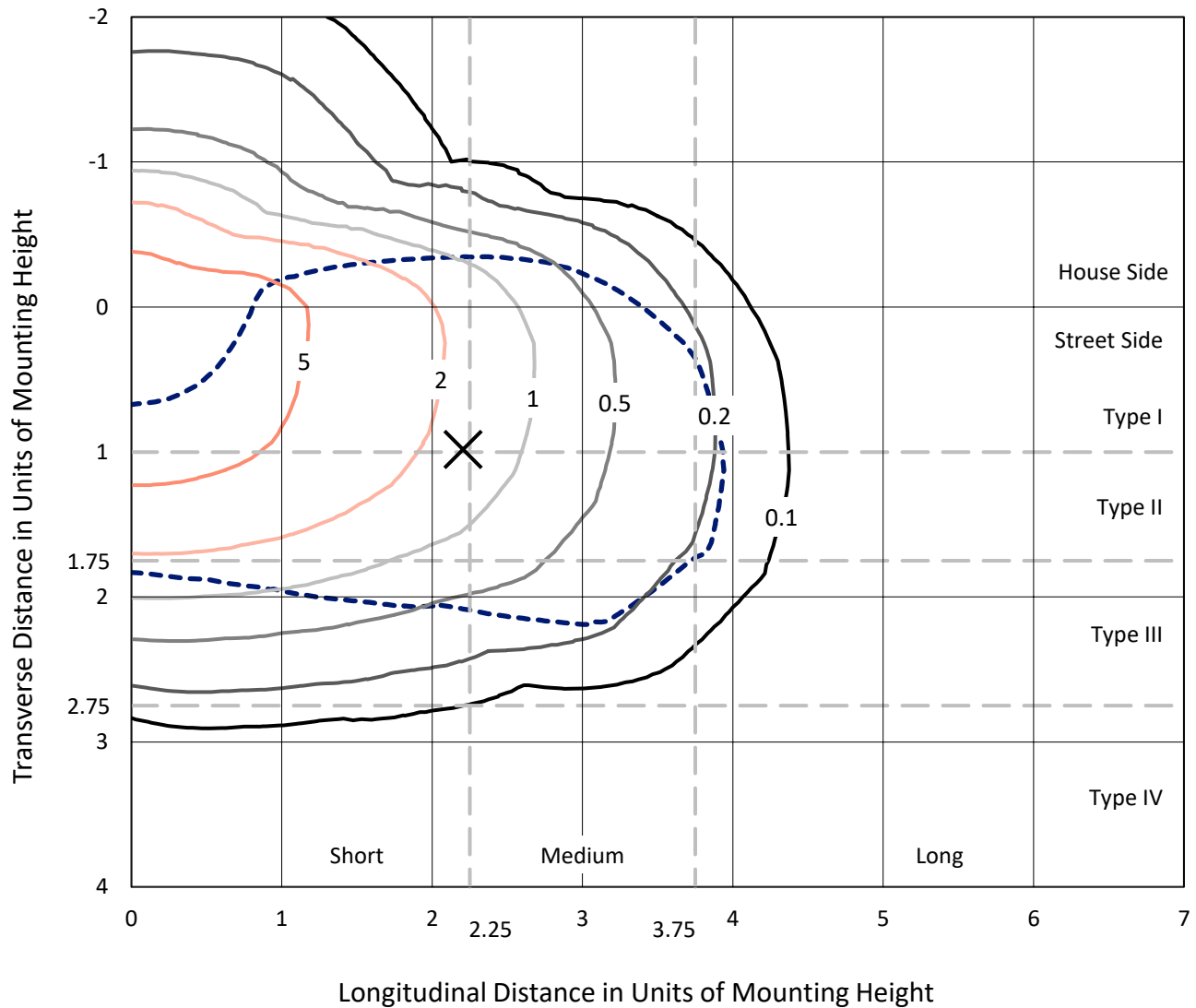


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

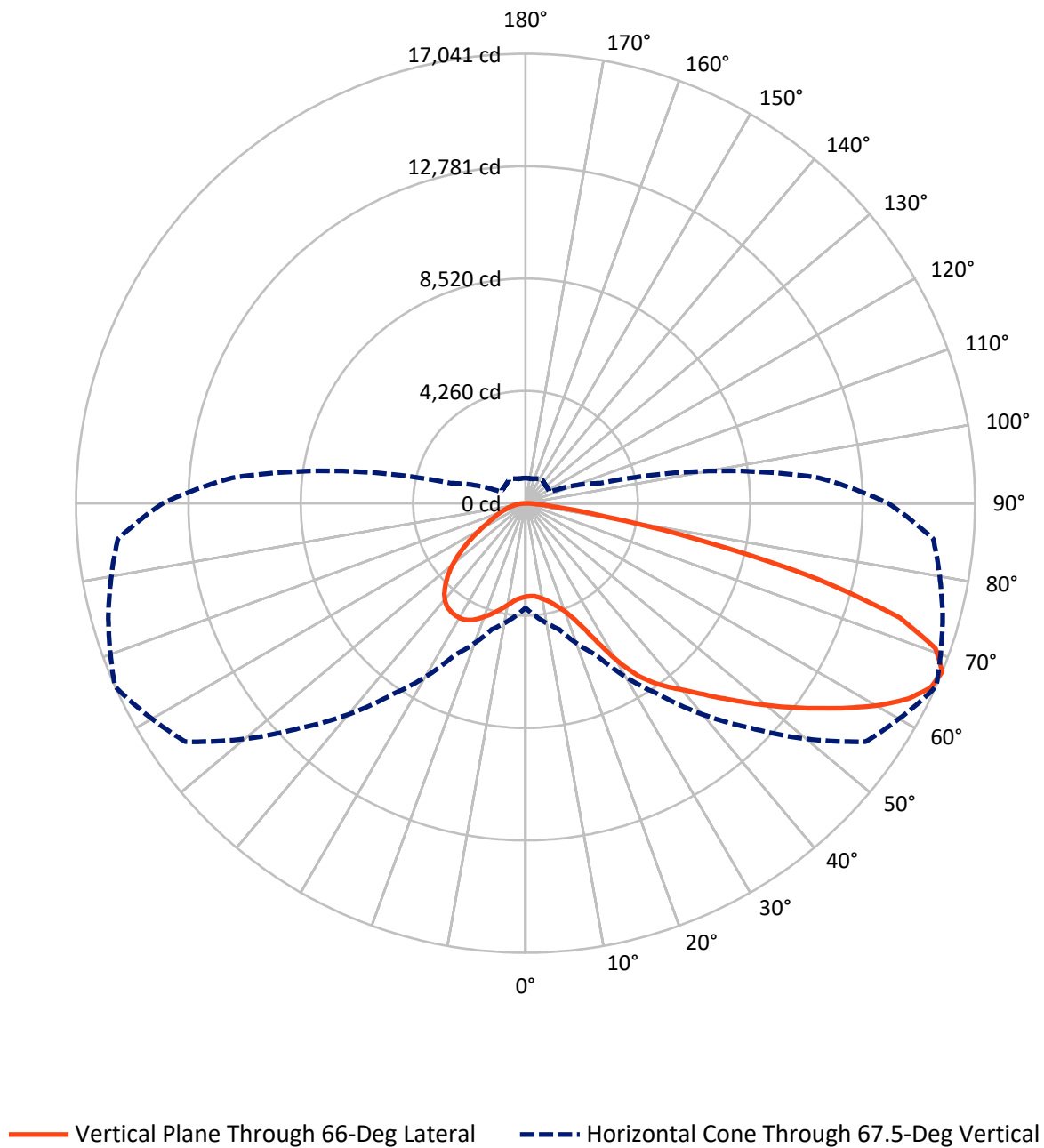


Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7937.6	0.0	7937.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23985.4	0.0	23985.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	31923.0	0.0	31923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.0	1.1
10°-20°	1159.8	3.6
20°-30°	2235.5	7.0
30°-40°	3919.6	12.3
40°-50°	5827.1	18.3
50°-60°	7386.5	23.1
60°-70°	7227.5	22.6
70°-80°	3447.6	10.8
80°-90°	368.5	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°	31923.0	100.0
0°-180°	31923.0	100.0

Coefficient of Utilization



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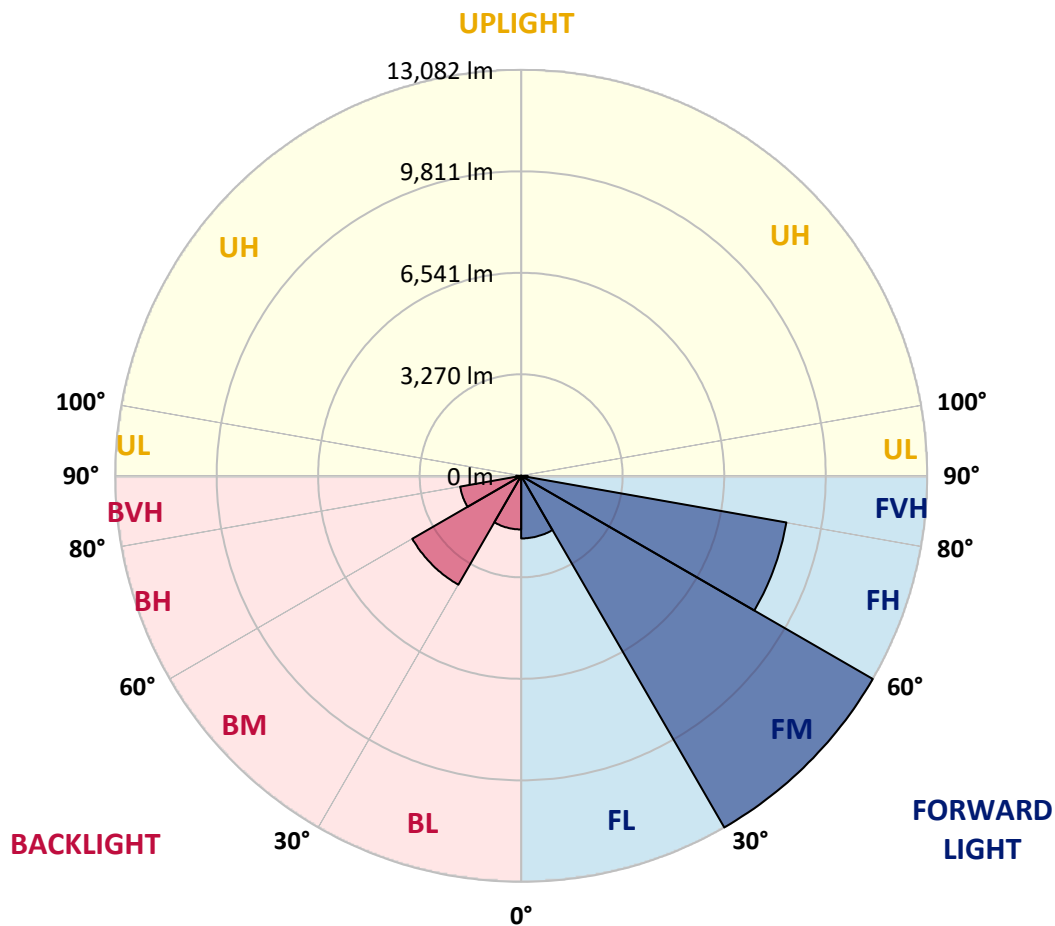
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2017.2	6.3			
FM	(30°-60°)	13081.8	41.0			
FH	(60°-80°)	8677.5	27.2			G4/12000
FVH	(80°-90°)	208.9	0.7			G2/225
BL	(0°-30°)	1729.1	5.4	B3/2500		
BM	(30°-60°)	4051.4	12.7	B3/5000		
BH	(60°-80°)	1997.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	159.6	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°	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7
2.5°	3503.8	3523.9	3518.9	3510.5	3508.8	3512.2	3517.2	3522.2	3520.6	3528.9	3542.4
5°	3493.7	3513.8	3512.2	3512.2	3518.9	3532.3	3540.7	3549.1	3540.7	3550.7	3569.2
7.5°	3500.4	3515.5	3522.2	3528.9	3545.7	3570.9	3591.0	3609.4	3599.4	3611.1	3634.6
10°	3586.0	3597.7	3604.4	3604.4	3616.2	3644.7	3664.8	3698.3	3690.0	3708.4	3738.6
12.5°	3742.0	3753.7	3753.7	3747.0	3755.4	3773.8	3780.5	3817.4	3802.3	3832.5	3862.7
15°	3933.2	3956.6	3938.2	3926.5	3929.8	3948.3	3946.6	3975.1	3960.0	3985.2	4012.0
17.5°	4144.5	4174.7	4144.5	4142.8	4136.1	4156.2	4157.9	4183.1	4156.2	4174.7	4193.1
20°	4394.4	4436.3	4411.2	4419.6	4404.5	4412.9	4421.2	4458.1	4416.2	4429.6	4424.6
22.5°	4746.6	4796.9	4770.1	4802.0	4791.9	4785.2	4783.5	4848.9	4783.5	4788.6	4739.9
25°	5259.9	5320.2	5273.3	5316.9	5316.9	5338.7	5363.9	5447.7	5338.7	5306.8	5181.0
27.5°	6018.0	6078.4	5986.1	6013.0	6004.6	6058.2	6031.4	6239.4	6122.0	6070.0	5816.7
30°	6930.4	7037.8	6863.3	6856.6	6848.2	6933.8	6972.3	7109.9	6990.8	6938.8	6633.5
32.5°	7916.6	8029.0	7821.0	7760.7	7728.8	7780.8	7748.9	7859.6	7777.4	7696.9	7319.5
35°	8959.9	9070.6	8872.7	8755.3	8627.8	8518.8	8404.7	8433.2	8356.1	8233.6	7842.8
37.5°	9946.1	10149.1	9939.4	9813.6	9578.8	9365.8	9047.1	8914.6	8842.5	8730.1	8336.0
40°	10950.8	11066.5	10907.2	10799.8	10544.9	10211.1	9701.2	9421.1	9323.9	9214.8	8881.1
42.5°	11690.5	11801.2	11715.6	11641.8	11442.2	11054.8	10395.6	10045.1	9904.2	9781.7	9498.3
45°	12277.5	12359.7	12306.0	12332.8	12247.3	11871.6	11115.2	10714.3	10568.4	10419.1	10196.0
47.5°	12514.0	12601.2	12686.7	12846.1	12992.0	12715.3	11888.4	11438.9	11284.6	11131.9	10912.2
50°	12487.2	12576.0	12824.3	13163.1	13615.9	13523.7	12703.5	12210.4	12067.8	11893.4	11690.5
52.5°	12272.5	12373.1	12691.8	13255.3	13976.6	14129.2	13533.8	13007.1	12872.9	12664.9	12462.0
55°	11708.9	11769.3	12247.3	13045.7	14062.1	14551.9	14347.2	13855.8	13721.6	13431.4	13210.1
57.5°	10664.0	10751.2	11447.3	12480.4	13847.4	14838.7	15061.7	14748.1	14618.9	14201.3	13969.8
60°	9300.4	9439.6	10236.3	11531.1	13300.6	14837.0	15710.8	15625.3	15518.0	14959.4	14717.9
62.5°	7757.3	7918.3	8684.8	10189.3	12344.6	14416.0	16116.7	16359.9	16304.6	15658.8	15350.2
65°	5957.6	6068.3	6831.5	8453.4	10856.9	13512.0	16163.7	16861.4	16871.5	16190.5	15680.6
67.5°	3966.7	4285.4	4947.9	6343.4	8864.3	12034.3	15751.1	16943.6	17040.9	16373.4	15514.6
70°	1935.6	2354.9	3004.0	4122.7	6343.4	9768.3	14672.6	16269.4	16485.7	15840.0	14525.0
72.5°	803.4	939.3	1293.2	2034.5	3641.3	6591.6	12505.6	14441.2	14842.0	14035.3	12212.1
75°	541.8	587.0	739.7	1043.3	1658.8	3250.5	9018.6	10768.0	11413.7	10600.2	8664.7
77.5°	417.6	446.1	538.4	729.6	986.2	1229.4	4827.1	6489.3	6823.1	6316.5	4508.5
80°	328.7	350.5	402.5	531.7	699.4	657.5	1645.4	2940.2	3133.1	2628.3	1449.1
82.5°	285.1	293.5	288.5	360.6	464.6	384.1	540.1	1085.2	1197.6	868.8	473.0
85°	206.3	229.8	239.8	223.1	246.6	194.6	221.4	384.1	422.7	377.4	266.7
87.5°	83.9	124.1	152.6	144.2	90.6	55.3	68.8	112.4	129.1	140.9	87.2
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°	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7	3540.7
2.5°	3544.0	3555.8	3564.2	3574.2	3580.9	3591.0	3611.1	3622.9	3624.5	3632.9	3631.3
5°	3575.9	3592.7	3611.1	3638.0	3668.2	3693.3	3731.9	3758.7	3768.8	3777.2	3775.5
7.5°	3644.7	3668.2	3701.7	3748.7	3792.3	3825.8	3872.8	3904.6	3936.5	3948.3	3949.9
10°	3747.0	3780.5	3829.2	3892.9	3939.9	3983.5	4032.1	4059.0	4090.8	4104.2	4110.9
12.5°	3874.5	3909.7	3973.4	4062.3	4105.9	4136.1	4152.9	4146.2	4152.9	4164.6	4168.0
15°	4020.4	4059.0	4131.1	4226.7	4256.9	4230.0	4193.1	4159.6	4154.6	4157.9	4169.7
17.5°	4193.1	4221.6	4305.5	4386.0	4364.2	4253.5	4173.0	4119.3	4092.5	4084.1	4095.9
20°	4434.7	4434.7	4503.4	4553.7	4407.8	4220.0	4094.2	4007.0	3951.6	3928.1	3923.1
22.5°	4728.2	4701.3	4745.0	4709.7	4399.4	4126.0	3951.6	3800.7	3716.8	3683.2	3678.2
25°	5100.5	5068.7	5056.9	4838.9	4339.1	3976.8	3693.3	3510.5	3436.7	3418.2	3421.6
27.5°	5662.4	5581.9	5429.3	4909.3	4228.4	3742.0	3391.4	3222.0	3180.1	3181.8	3186.8
30°	6410.5	6249.4	5875.4	4921.1	4047.2	3409.9	3082.8	2962.0	2941.9	2950.3	2978.8
32.5°	7103.2	6950.5	6331.6	4867.4	3768.8	3084.5	2806.0	2725.5	2695.3	2705.4	2718.8
35°	7646.6	7604.7	6754.3	4791.9	3426.6	2779.2	2557.8	2489.0	2430.3	2416.9	2427.0
37.5°	8159.8	8143.1	7071.3	4686.2	3087.8	2562.8	2358.2	2267.6	2182.1	2135.1	2136.8
40°	8723.4	8706.6	7279.3	4523.6	2787.6	2375.0	2178.8	2059.7	1954.0	1868.5	1876.8
42.5°	9357.4	9258.4	7378.2	4290.4	2532.7	2215.7	2032.8	1871.8	1732.6	1653.8	1658.8
45°	10050.1	9827.0	7376.6	3993.5	2318.0	2069.7	1876.8	1648.7	1519.6	1445.8	1442.4
47.5°	10784.7	10370.5	7286.0	3664.8	2110.0	1908.7	1635.3	1460.9	1375.3	1330.1	1320.0
50°	11542.9	10878.7	7131.7	3287.4	1897.0	1725.9	1484.4	1365.3	1299.9	1257.9	1242.8
52.5°	12255.7	11339.9	6945.5	2859.7	1680.6	1548.1	1417.3	1325.0	1256.3	1209.3	1189.2
55°	12918.2	11737.4	6682.2	2422.0	1504.5	1429.0	1385.4	1308.3	1229.4	1174.1	1152.3
57.5°	13506.9	11995.7	6227.6	2011.0	1378.7	1346.8	1351.9	1279.7	1189.2	1142.2	1112.0
60°	13996.7	12185.2	5555.1	1630.3	1276.4	1266.3	1299.9	1226.1	1120.4	1066.7	1043.3
62.5°	14290.2	12181.9	4729.9	1335.1	1189.2	1192.5	1231.1	1159.0	1051.6	1001.3	986.2
65°	14265.0	11883.3	3824.1	1142.2	1105.3	1108.7	1159.0	1085.2	994.6	964.4	962.7
67.5°	13760.2	11155.4	2933.5	1016.4	1013.1	1028.2	1086.9	1034.9	959.4	956.0	961.1
70°	12393.2	9644.2	2113.3	915.8	917.5	939.3	1016.4	1003.0	940.9	947.6	946.0
72.5°	9937.7	7353.1	1419.0	810.1	811.8	847.0	949.3	977.8	922.5	1011.4	1024.8
75°	6618.4	4585.6	912.4	697.7	699.4	744.7	890.6	929.2	872.2	1008.0	1016.4
77.5°	3180.1	2061.3	660.8	587.0	587.0	629.0	769.9	831.9	743.0	783.3	717.9
80°	1098.6	774.9	519.9	473.0	462.9	491.4	649.1	721.2	640.7	590.4	553.5
82.5°	432.7	402.5	417.6	367.3	333.8	352.2	504.9	595.4	471.3	426.0	424.3
85°	248.2	261.7	295.2	243.2	192.9	216.4	370.7	427.7	355.6	313.6	320.4
87.5°	67.1	92.2	135.9	125.8	87.2	92.2	176.1	236.5	204.6	157.7	162.7
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)