

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: P458974

Luminaire Tested: **GALN-SA4D-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28445 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

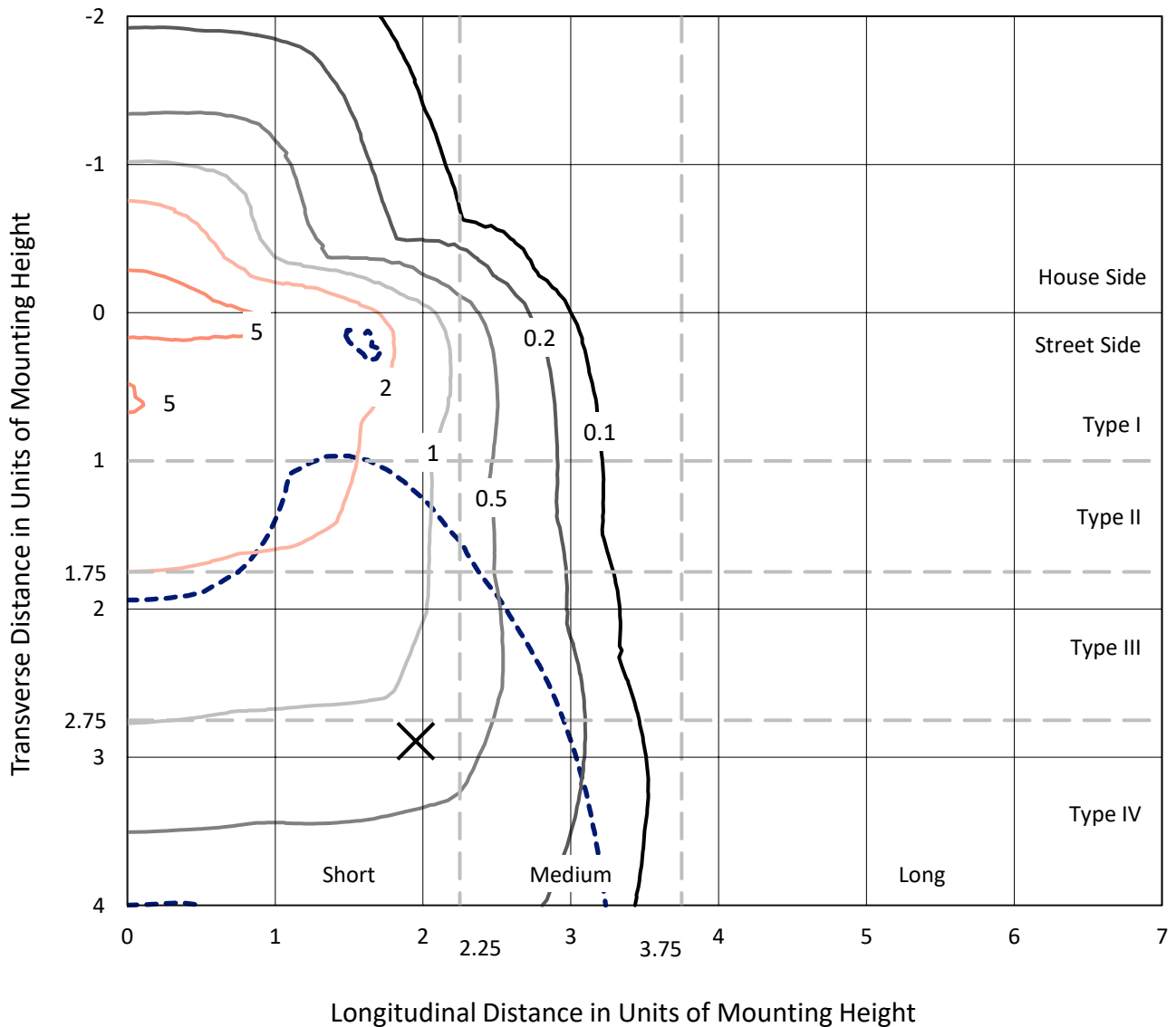
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458974  
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### Iso-Footcandle Lines of Horizontal Illumination

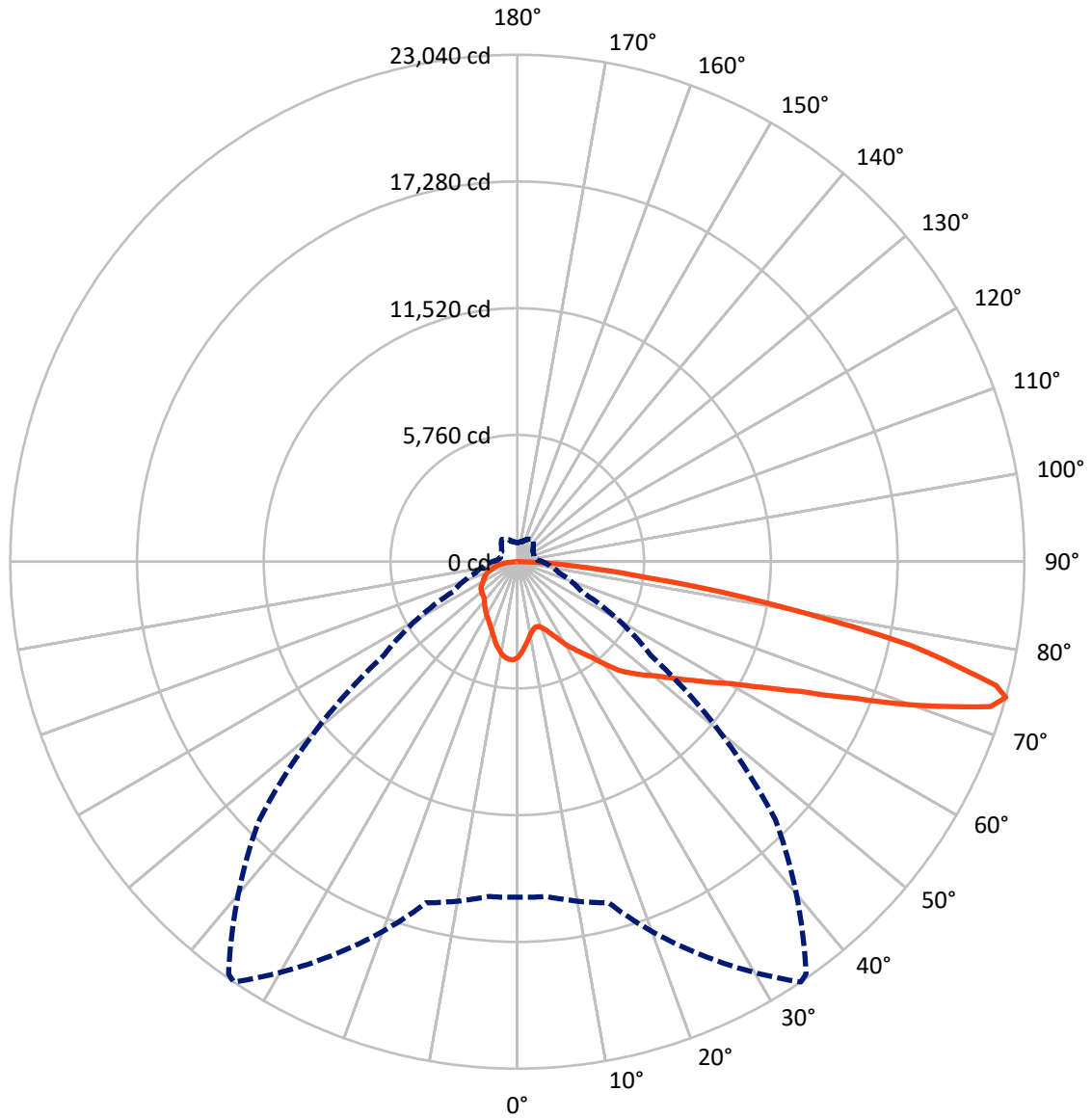
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6053.3	0.0	6053.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	22391.7	0.0	22391.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	28445.0	0.0	28445.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.0	1.4
10°-20°	1081.2	3.8
20°-30°	1782.7	6.3
30°-40°	2670.2	9.4
40°-50°	3881.8	13.6
50°-60°	5421.9	19.1
60°-70°	6788.0	23.9
70°-80°	5613.1	19.7
80°-90°	811.0	2.9
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°	28445.0	100.0
0°-180°	28445.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458974

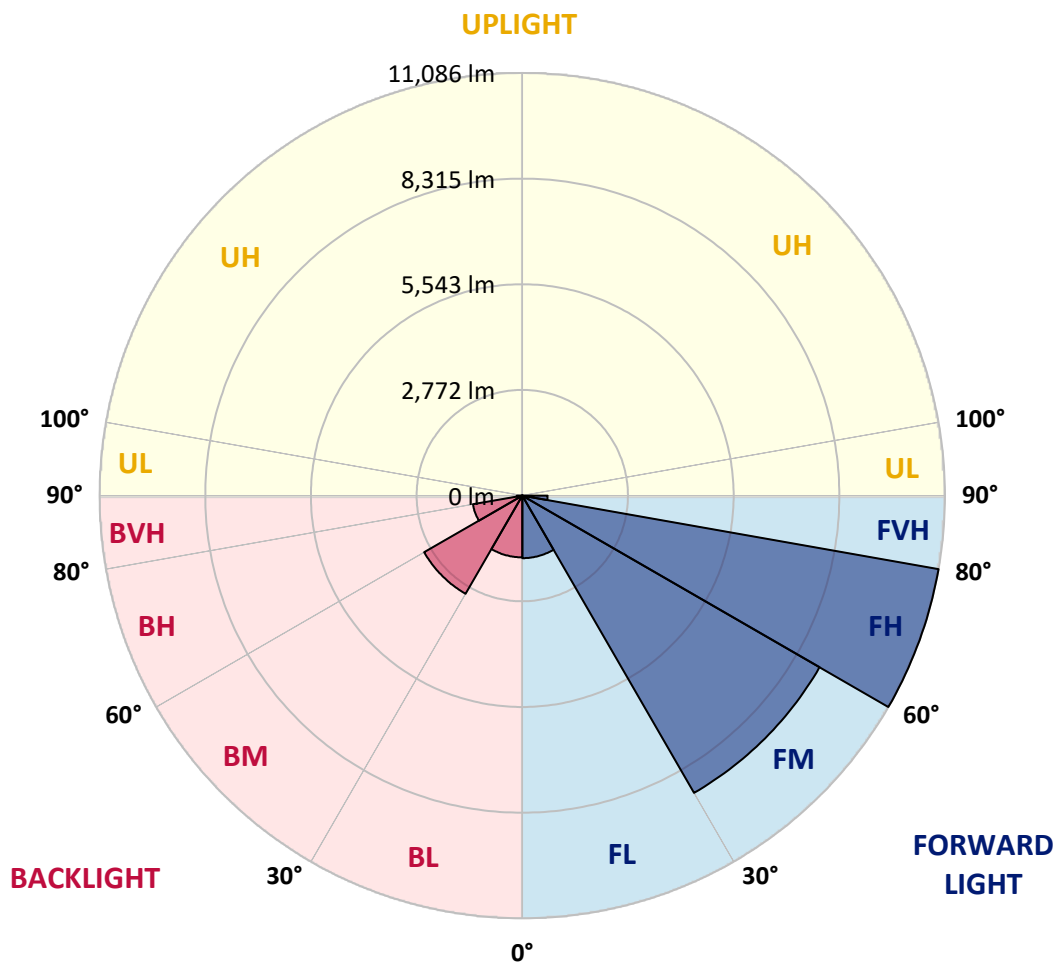
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.7	5.8			
FM (30°-60°)	9001.2	31.6			
FH (60°-80°)	11086.4	39.0			G4/12000
FVH (80°-90°)	664.4	2.3			G4/750
BL (0°-30°)	1619.2	5.7	B3/2500		
BM (30°-60°)	2972.8	10.5	B3/5000		
BH (60°-80°)	1314.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	146.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0
2.5°	4013.6	4034.1	4045.2	4084.6	4094.0	4106.6	4139.7	4183.8	4240.6	4291.0	4335.1
5°	3679.6	3711.1	3730.0	3764.7	3832.4	3838.7	3927.0	4027.8	4142.9	4250.0	4338.3
7.5°	3362.8	3397.5	3413.2	3476.3	3566.1	3580.3	3709.5	3868.7	4060.9	4223.2	4358.7
10°	3124.9	3142.2	3176.9	3224.1	3331.3	3340.8	3509.4	3722.1	3971.1	4210.6	4393.4
12.5°	2995.7	3005.1	3013.0	3063.4	3169.0	3183.2	3359.7	3600.8	3900.2	4220.1	4450.1
15°	3014.6	3017.7	2983.0	2992.5	3077.6	3098.1	3273.0	3520.4	3856.1	4243.7	4535.2
17.5°	3173.7	3162.7	3077.6	3033.5	3093.4	3102.8	3255.7	3488.9	3835.6	4287.8	4623.5
20°	3424.3	3408.5	3262.0	3164.3	3198.9	3206.8	3312.4	3512.5	3856.1	4360.3	4760.6
22.5°	3736.3	3730.0	3507.8	3389.6	3388.0	3388.0	3443.2	3597.6	3917.5	4459.6	4904.0
25°	4172.8	4139.7	3849.8	3696.9	3654.4	3651.2	3644.9	3737.9	3996.3	4565.2	5074.2
27.5°	4620.3	4563.6	4305.2	4070.4	3979.0	3967.9	3927.0	3936.4	4097.2	4684.9	5268.0
30°	5022.2	4985.9	4743.2	4483.2	4374.5	4349.3	4235.8	4183.8	4265.8	4900.8	5576.9
32.5°	5329.5	5307.4	5118.3	4881.9	4721.2	4716.5	4551.0	4508.5	4528.9	5162.4	5929.9
35°	5578.4	5586.3	5490.2	5285.3	5101.0	5074.2	4963.9	4910.3	4850.4	5540.6	6374.2
37.5°	5918.8	5936.2	5929.9	5753.4	5528.0	5534.3	5509.1	5420.9	5261.7	5962.9	6867.5
40°	6293.9	6306.5	6304.9	6237.1	6118.9	6125.3	6115.8	6014.9	5777.0	6500.3	7415.9
42.5°	6812.3	6752.4	6596.4	6664.2	6733.5	6763.5	6828.1	6731.9	6405.8	7073.9	7931.2
45°	7392.2	7278.8	6925.8	6957.3	7214.2	7270.9	7627.0	7494.6	7088.1	7732.6	8537.8
47.5°	7757.8	7645.9	7348.1	7341.8	7682.2	7737.3	8367.7	8318.8	7709.0	8443.3	9278.5
50°	8084.0	8068.3	7732.6	7813.0	8145.5	8227.4	9174.5	9128.8	8328.3	9281.6	10085.3
52.5°	8567.8	8440.1	8172.3	8337.7	8777.4	8884.5	9975.0	9841.1	8897.1	10022.3	10868.5
55°	8785.3	8755.3	8739.6	8883.0	9486.5	9563.7	10753.5	10446.2	9382.5	10649.5	11464.2
57.5°	9366.7	9311.6	9467.6	9565.3	10321.7	10439.9	11566.6	11078.1	9808.0	11147.4	11754.1
60°	10120.0	10090.0	10233.4	10409.9	11254.6	11434.2	12493.2	11617.0	10149.9	11398.0	11595.0
62.5°	11245.1	11242.0	11215.2	11593.4	12576.7	12742.2	13556.9	12141.8	10203.5	11210.5	10772.4
65°	12858.8	12802.0	12568.8	12981.7	14221.9	14415.7	14664.7	12434.9	9880.5	10247.6	9070.5
67.5°	14546.5	14543.3	14354.2	14890.0	16584.0	16784.2	16049.8	12370.3	8983.8	8301.5	6442.0
70°	15945.8	15878.1	16119.2	17546.9	19601.8	19833.4	17261.6	11609.1	7155.8	5482.3	3827.7
72.5°	16281.5	16284.6	16785.7	19595.5	22499.7	22536.0	17698.2	9409.3	4788.9	3024.0	1914.6
74°	15247.7	15274.5	16051.4	19697.9	23040.2	22876.3	16582.5	7395.4	3238.3	1974.5	1380.4
75°	13917.7	13749.1	14872.7	19015.5	22479.2	22302.7	15276.1	5934.6	2470.9	1577.4	1208.7
77.5°	7441.1	7612.8	9346.3	14190.4	18262.3	18059.0	10357.9	2845.9	1334.7	1098.4	869.9
80°	2649.0	2921.6	4106.6	7425.3	11708.4	11771.5	4943.4	1304.8	939.2	810.0	614.6
82.5°	1081.0	1111.0	1763.4	3295.1	5945.6	6002.3	2018.6	775.3	671.3	557.8	367.2
85°	422.3	434.9	780.0	1481.3	2537.1	2702.5	698.1	409.7	412.9	319.9	187.5
87.5°	141.8	160.7	319.9	493.2	862.0	844.6	203.3	121.3	148.1	138.7	58.3
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°	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0	4343.0
2.5°	4357.2	4387.1	4407.6	4429.7	4450.1	4456.4	4451.7	4465.9	4467.5	4469.1	4470.6
5°	4382.4	4423.4	4462.8	4484.8	4494.3	4486.4	4459.6	4445.4	4432.8	4423.4	4426.5
7.5°	4417.1	4475.4	4511.6	4521.1	4495.8	4459.6	4393.4	4341.4	4308.3	4286.3	4284.7
10°	4470.6	4527.4	4557.3	4530.5	4461.2	4372.9	4268.9	4171.2	4097.2	4075.1	4073.5
12.5°	4538.4	4603.0	4601.4	4522.6	4401.3	4243.7	4075.1	3961.6	3860.8	3810.4	3830.8
15°	4626.6	4675.5	4629.8	4488.0	4295.7	4079.8	3871.8	3717.4	3603.9	3550.3	3553.5
17.5°	4729.1	4771.6	4650.3	4426.5	4147.6	3870.2	3629.1	3482.6	3392.8	3353.4	3350.2
20°	4856.7	4869.3	4650.3	4319.4	3956.9	3626.0	3395.9	3293.5	3243.1	3222.6	3228.9
22.5°	4993.8	4968.6	4625.1	4168.1	3706.4	3370.7	3216.3	3170.6	3145.4	3142.2	3145.4
25°	5148.2	5077.3	4573.1	3963.2	3444.8	3150.1	3060.3	3068.1	3072.9	3072.9	3083.9
27.5°	5337.3	5195.5	4486.4	3704.8	3139.1	2945.2	2920.0	2975.2	3000.4	3005.1	3013.0
30°	5586.3	5324.7	4343.0	3381.7	2879.0	2760.9	2805.0	2879.0	2907.4	2924.7	2921.6
32.5°	5882.6	5466.6	4149.2	3058.7	2669.5	2631.6	2685.2	2760.9	2792.4	2801.8	2789.2
35°	6230.8	5627.3	3893.9	2756.1	2486.7	2508.7	2571.8	2595.4	2623.8	2623.8	2630.1
37.5°	6605.9	5756.5	3581.9	2478.8	2344.8	2425.2	2470.9	2448.8	2436.2	2420.5	2428.4
40°	6987.2	5852.6	3176.9	2204.6	2203.0	2338.5	2351.1	2288.1	2237.7	2221.9	2214.0
42.5°	7319.7	5912.5	2811.3	1991.8	2069.1	2253.4	2262.9	2162.0	2081.7	2034.4	2018.6
45°	7712.1	5981.9	2453.6	1815.4	1944.6	2185.7	2209.3	2073.8	1955.6	1856.3	1831.1
47.5°	8249.5	6139.4	2171.5	1678.3	1854.8	2143.1	2176.2	2001.3	1845.3	1716.1	1695.6
50°	8856.2	6355.3	1952.5	1585.3	1785.4	2105.3	2146.3	1927.2	1742.9	1599.5	1583.7
52.5°	9412.4	6471.9	1763.4	1501.8	1717.7	2036.0	2106.9	1873.7	1642.0	1482.9	1468.7
55°	9716.6	6282.8	1577.4	1419.8	1624.7	1946.2	2051.7	1799.6	1544.3	1421.4	1400.9
57.5°	9757.5	5892.0	1408.8	1331.6	1527.0	1835.8	1949.3	1709.8	1481.3	1378.9	1361.5
60°	9440.8	5309.0	1278.0	1259.1	1427.7	1711.4	1834.3	1631.0	1416.7	1331.6	1314.2
62.5°	8652.9	4675.5	1186.6	1192.9	1326.8	1580.6	1749.2	1555.3	1355.2	1279.6	1263.8
65°	7297.7	3859.2	1098.4	1125.1	1237.0	1478.1	1672.0	1492.3	1293.8	1240.2	1226.0
67.5°	5069.4	2786.1	1025.9	1054.2	1151.9	1374.1	1582.1	1424.6	1224.4	1196.1	1174.0
70°	2806.6	1714.5	940.8	973.9	1063.7	1257.5	1481.3	1322.1	1123.6	1111.0	1079.4
72.5°	1475.0	1092.1	844.6	880.9	943.9	1107.8	1326.8	1210.2	1024.3	970.7	929.7
74°	1151.9	895.1	780.0	817.9	860.4	1019.6	1235.5	1129.9	953.4	890.3	858.8
75°	1003.8	797.4	724.9	773.7	811.6	959.7	1164.5	1073.1	914.0	854.1	825.7
77.5°	709.1	597.2	592.5	650.8	671.3	841.5	1049.5	977.0	814.7	751.7	724.9
80°	498.0	447.5	469.6	505.8	534.2	743.8	973.9	844.6	668.2	594.1	584.6
82.5°	324.6	293.1	335.7	368.7	378.2	548.4	786.3	641.4	486.9	395.5	367.2
85°	149.7	146.6	192.3	187.5	185.9	267.9	466.4	375.0	280.5	209.6	197.0
87.5°	37.8	36.2	47.3	39.4	47.3	41.0	42.5	11.0	1.6	0.0	0.0
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)