

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: P459235

Luminaire Tested: **GALN-SA7A-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459235  
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-SA7A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA 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: 29607 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

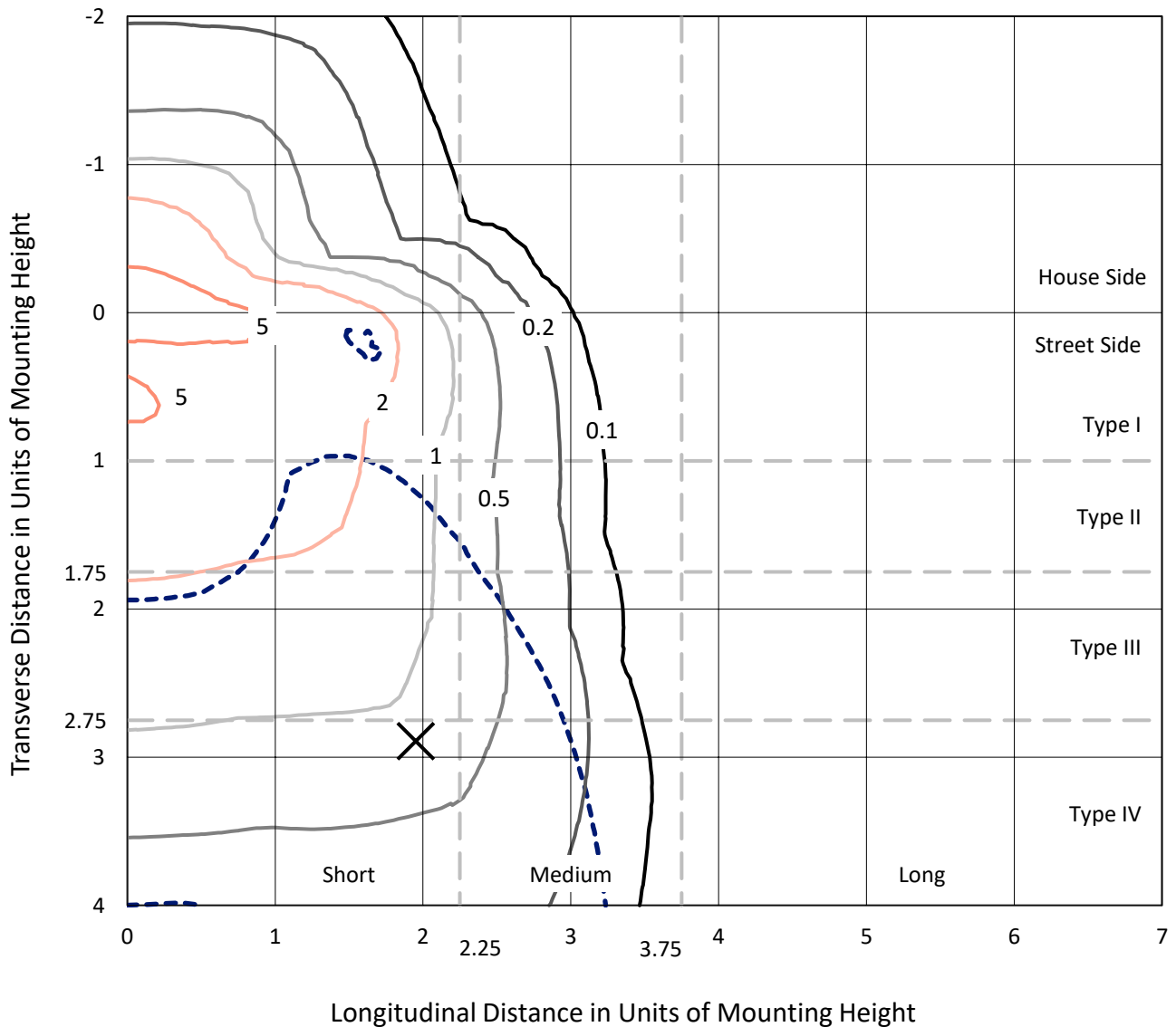
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

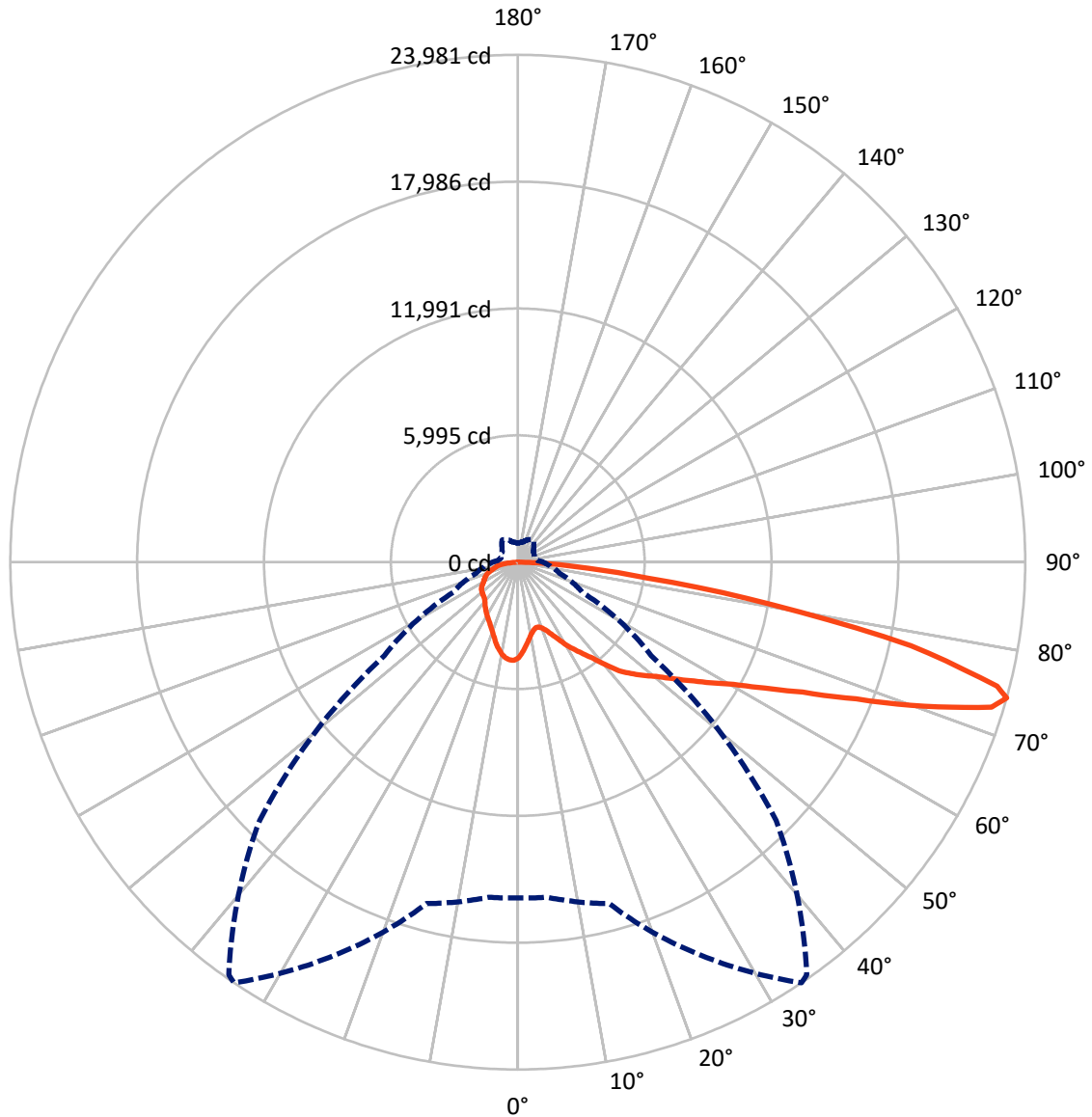
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	6300.6	0.0	6300.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	23306.4	0.0	23306.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	29607.0	0.0	29607.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.1	1.4
10°-20°	1125.4	3.8
20°-30°	1855.5	6.3
30°-40°	2779.3	9.4
40°-50°	4040.4	13.6
50°-60°	5643.4	19.1
60°-70°	7065.3	23.9
70°-80°	5842.4	19.7
80°-90°	844.2	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°	29607.0	100.0
0°-180°	29607.0	100.0

**Coefficient of Utilization**



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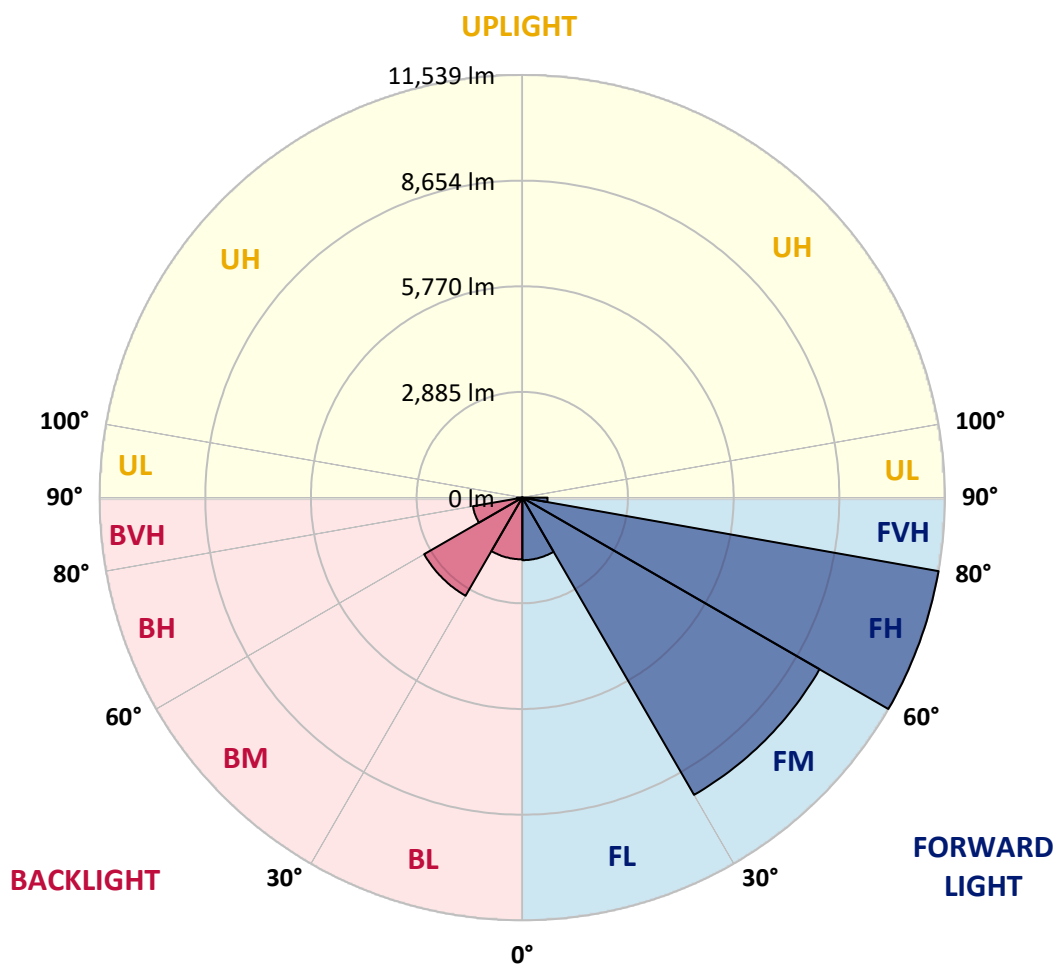
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1706.7	5.8			
FM (30°-60°)	9368.9	31.6			
FH (60°-80°)	11539.2	39.0			G4/12000
FVH (80°-90°)	691.6	2.3			G4/750
BL (0°-30°)	1685.3	5.7	B3/2500		
BM (30°-60°)	3094.2	10.5	B3/5000		
BH (60°-80°)	1368.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	152.6	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°	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4
2.5°	4177.6	4198.9	4210.4	4251.4	4261.3	4274.4	4308.8	4354.7	4413.8	4466.3	4512.2
5°	3829.9	3862.7	3882.4	3918.4	3989.0	3995.5	4087.4	4192.4	4312.1	4423.6	4515.5
7.5°	3500.2	3536.3	3552.7	3618.3	3711.8	3726.5	3861.0	4026.7	4226.8	4395.7	4536.8
10°	3252.5	3270.6	3306.7	3355.9	3467.4	3477.2	3652.7	3874.2	4133.3	4382.6	4572.9
12.5°	3118.0	3127.9	3136.1	3188.6	3298.5	3313.2	3496.9	3747.9	4059.5	4392.5	4631.9
15°	3137.7	3141.0	3104.9	3114.7	3203.3	3224.6	3406.7	3664.2	4013.6	4417.1	4720.5
17.5°	3303.4	3291.9	3203.3	3157.4	3219.7	3229.6	3388.7	3631.4	3992.3	4463.0	4812.4
20°	3564.2	3547.8	3395.2	3293.5	3329.6	3337.8	3447.7	3656.0	4013.6	4538.4	4955.1
22.5°	3888.9	3882.4	3651.1	3528.1	3526.4	3526.4	3583.8	3744.6	4077.5	4641.8	5104.3
25°	4343.3	4308.8	4007.0	3847.9	3803.6	3800.4	3793.8	3890.6	4159.6	4751.7	5281.5
27.5°	4809.1	4750.0	4481.0	4236.6	4141.5	4130.0	4087.4	4097.2	4264.5	4876.3	5483.2
30°	5227.3	5189.6	4937.0	4666.4	4553.2	4527.0	4408.9	4354.7	4440.0	5101.0	5804.7
32.5°	5547.2	5524.2	5327.4	5081.4	4914.1	4909.1	4736.9	4692.6	4713.9	5373.3	6172.1
35°	5806.3	5814.5	5714.5	5501.2	5309.3	5281.5	5166.6	5110.9	5048.5	5767.0	6634.6
37.5°	6160.6	6178.7	6172.1	5988.4	5753.8	5760.4	5734.2	5642.3	5476.6	6206.5	7148.0
40°	6551.0	6564.1	6562.5	6491.9	6368.9	6375.5	6365.6	6260.7	6013.0	6765.8	7718.8
42.5°	7090.6	7028.3	6865.9	6936.4	7008.6	7039.8	7107.0	7007.0	6667.4	7362.9	8255.1
45°	7694.2	7576.1	7208.7	7241.5	7508.9	7567.9	7938.6	7800.8	7377.6	8048.5	8886.6
47.5°	8074.7	7958.3	7648.3	7641.7	7996.0	8053.4	8709.5	8658.6	8023.9	8788.2	9657.5
50°	8414.2	8397.8	8048.5	8132.1	8478.2	8563.5	9549.3	9501.7	8668.5	9660.8	10497.3
52.5°	8917.8	8784.9	8506.1	8678.3	9135.9	9247.5	10382.5	10243.1	9260.6	10431.7	11312.5
55°	9144.1	9113.0	9096.6	9245.8	9874.0	9954.4	11192.8	10872.9	9765.8	11084.5	11932.5
57.5°	9749.4	9692.0	9854.3	9956.0	10743.3	10866.4	12039.1	11530.6	10208.6	11602.8	12234.3
60°	10533.4	10502.2	10651.5	10835.2	11714.3	11901.3	13003.5	12091.6	10564.6	11863.6	12068.6
62.5°	11704.5	11701.2	11673.3	12067.0	13090.5	13262.7	14110.7	12637.8	10620.3	11668.4	11212.4
65°	13384.1	13325.0	13082.3	13512.0	14802.8	15004.6	15263.7	12942.9	10284.1	10666.2	9441.0
67.5°	15140.7	15137.4	14940.6	15498.3	17261.5	17469.8	16705.5	12875.6	9350.8	8640.6	6705.2
70°	16597.2	16526.7	16777.7	18263.7	20402.5	20643.6	17966.8	12083.4	7448.2	5706.3	3984.1
72.5°	16946.6	16949.9	17471.5	20395.9	23418.8	23456.6	18421.1	9793.7	4984.6	3147.6	1992.8
74°	15870.6	15898.5	16707.1	20502.6	23981.4	23810.8	17259.9	7697.5	3370.6	2055.2	1436.8
75°	14486.3	14310.8	15480.2	19792.3	23397.5	23213.8	15900.1	6177.0	2571.8	1641.8	1258.0
77.5°	7745.0	7923.8	9728.1	14770.0	19008.3	18796.7	10781.1	2962.2	1389.3	1143.2	905.4
80°	2757.2	3040.9	4274.4	7728.6	12186.7	12252.3	5145.3	1358.1	977.6	843.1	639.7
82.5°	1125.2	1156.3	1835.4	3429.7	6188.5	6247.5	2101.1	807.0	698.7	580.6	382.2
85°	439.6	452.7	811.9	1541.8	2640.7	2813.0	726.6	426.5	429.7	333.0	195.2
87.5°	147.6	167.3	333.0	513.4	897.2	879.1	211.6	126.3	154.2	144.3	60.7
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°	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4	4520.4
2.5°	4535.2	4566.3	4587.7	4610.6	4631.9	4638.5	4633.6	4648.3	4650.0	4651.6	4653.3
5°	4561.4	4604.1	4645.1	4668.0	4677.9	4669.7	4641.8	4627.0	4613.9	4604.1	4607.3
7.5°	4597.5	4658.2	4695.9	4705.7	4679.5	4641.8	4572.9	4518.8	4484.3	4461.4	4459.7
10°	4653.3	4712.3	4743.5	4715.6	4643.4	4551.6	4443.3	4341.6	4264.5	4241.6	4239.9
12.5°	4723.8	4791.0	4789.4	4707.4	4581.1	4417.1	4241.6	4123.5	4018.5	3966.0	3987.3
15°	4815.6	4866.5	4818.9	4671.3	4471.2	4246.5	4030.0	3869.2	3751.1	3695.4	3698.7
17.5°	4922.3	4966.5	4840.2	4607.3	4317.0	4028.3	3777.4	3624.9	3531.4	3490.4	3487.1
20°	5055.1	5068.2	4840.2	4495.8	4118.6	3774.1	3534.6	3428.0	3375.5	3354.2	3360.8
22.5°	5197.8	5171.6	4814.0	4338.3	3857.8	3508.4	3347.7	3300.1	3273.8	3270.6	3273.8
25°	5358.5	5284.7	4759.9	4125.1	3585.5	3278.8	3185.3	3193.5	3198.4	3198.4	3209.9
27.5°	5555.4	5407.8	4669.7	3856.1	3267.3	3065.5	3039.3	3096.7	3122.9	3127.9	3136.1
30°	5814.5	5542.3	4520.4	3519.9	2996.7	2873.6	2919.6	2996.7	3026.2	3044.2	3040.9
32.5°	6122.9	5689.9	4318.7	3183.6	2778.5	2739.1	2794.9	2873.6	2906.4	2916.3	2903.2
35°	6485.4	5857.2	4052.9	2868.7	2588.2	2611.2	2676.8	2701.4	2730.9	2730.9	2737.5
37.5°	6875.7	5991.7	3728.2	2580.0	2440.6	2524.3	2571.8	2548.9	2535.8	2519.4	2527.6
40°	7272.7	6091.7	3306.7	2294.6	2293.0	2434.1	2447.2	2381.6	2329.1	2312.7	2304.5
42.5°	7618.7	6154.0	2926.1	2073.2	2153.6	2345.5	2355.3	2250.4	2166.7	2117.5	2101.1
45°	8027.2	6226.2	2553.8	1889.5	2024.0	2275.0	2299.6	2158.5	2035.5	1932.2	1905.9
47.5°	8586.5	6390.2	2260.2	1746.8	1930.5	2230.7	2265.1	2083.1	1920.7	1786.2	1764.9
50°	9217.9	6614.9	2032.2	1650.0	1858.4	2191.3	2234.0	2006.0	1814.1	1664.8	1648.4
52.5°	9796.9	6736.3	1835.4	1563.1	1787.8	2119.1	2193.0	1950.2	1709.1	1543.4	1528.7
55°	10113.5	6539.5	1641.8	1477.8	1691.1	2025.7	2135.5	1873.1	1607.4	1479.5	1458.1
57.5°	10156.1	6132.7	1466.3	1386.0	1589.4	1910.8	2028.9	1779.6	1541.8	1435.2	1417.1
60°	9826.5	5525.8	1330.2	1310.5	1486.0	1781.3	1909.2	1697.6	1474.5	1386.0	1367.9
62.5°	9006.4	4866.5	1235.1	1241.6	1381.1	1645.1	1820.6	1618.9	1410.6	1331.8	1315.4
65°	7595.8	4016.9	1143.2	1171.1	1287.6	1538.5	1740.3	1553.3	1346.6	1290.8	1276.1
67.5°	5276.5	2899.9	1067.8	1097.3	1199.0	1430.3	1646.8	1482.7	1274.4	1244.9	1222.0
70°	2921.2	1784.5	979.2	1013.6	1107.1	1308.9	1541.8	1376.1	1169.5	1156.3	1123.5
72.5°	1535.2	1136.7	879.1	916.9	982.5	1153.1	1381.1	1259.7	1066.1	1010.4	967.7
74°	1199.0	931.6	811.9	851.3	895.6	1061.2	1285.9	1176.0	992.3	926.7	893.9
75°	1044.8	829.9	754.5	805.3	844.7	998.9	1212.1	1117.0	951.3	889.0	859.5
77.5°	738.1	621.6	616.7	677.4	698.7	875.9	1092.4	1016.9	848.0	782.4	754.5
80°	518.3	465.8	488.8	526.5	556.0	774.2	1013.6	879.1	695.4	618.4	608.5
82.5°	337.9	305.1	349.4	383.8	393.6	570.8	818.5	667.6	506.8	411.7	382.2
85°	155.8	152.5	200.1	195.2	193.5	278.8	485.5	390.4	292.0	218.1	205.0
87.5°	39.4	37.7	49.2	41.0	49.2	42.6	44.3	11.5	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)