

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: P454189

Luminaire Tested: **GALN-SA5B-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454189  
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-SA5B-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA 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: 25894 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

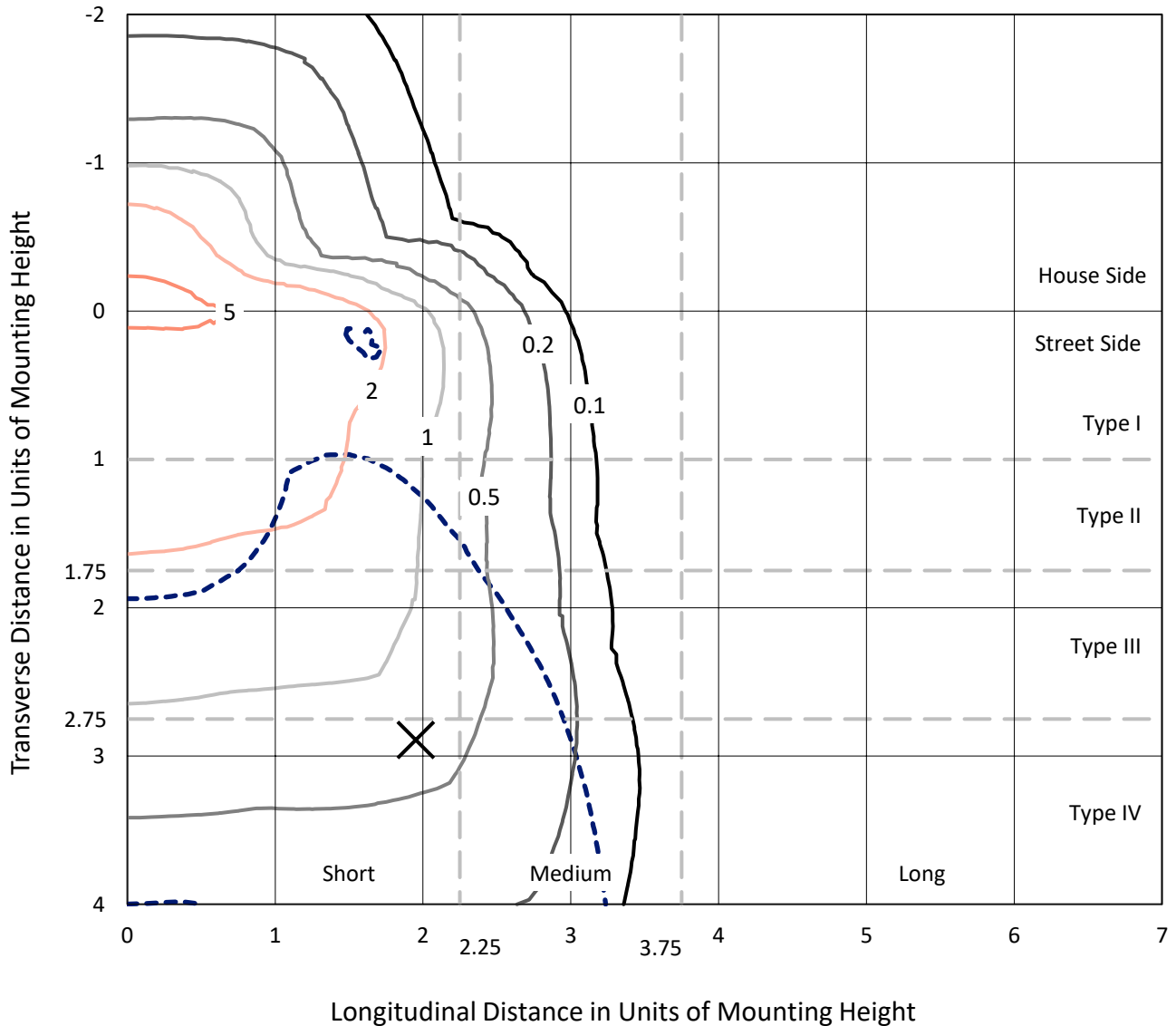
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

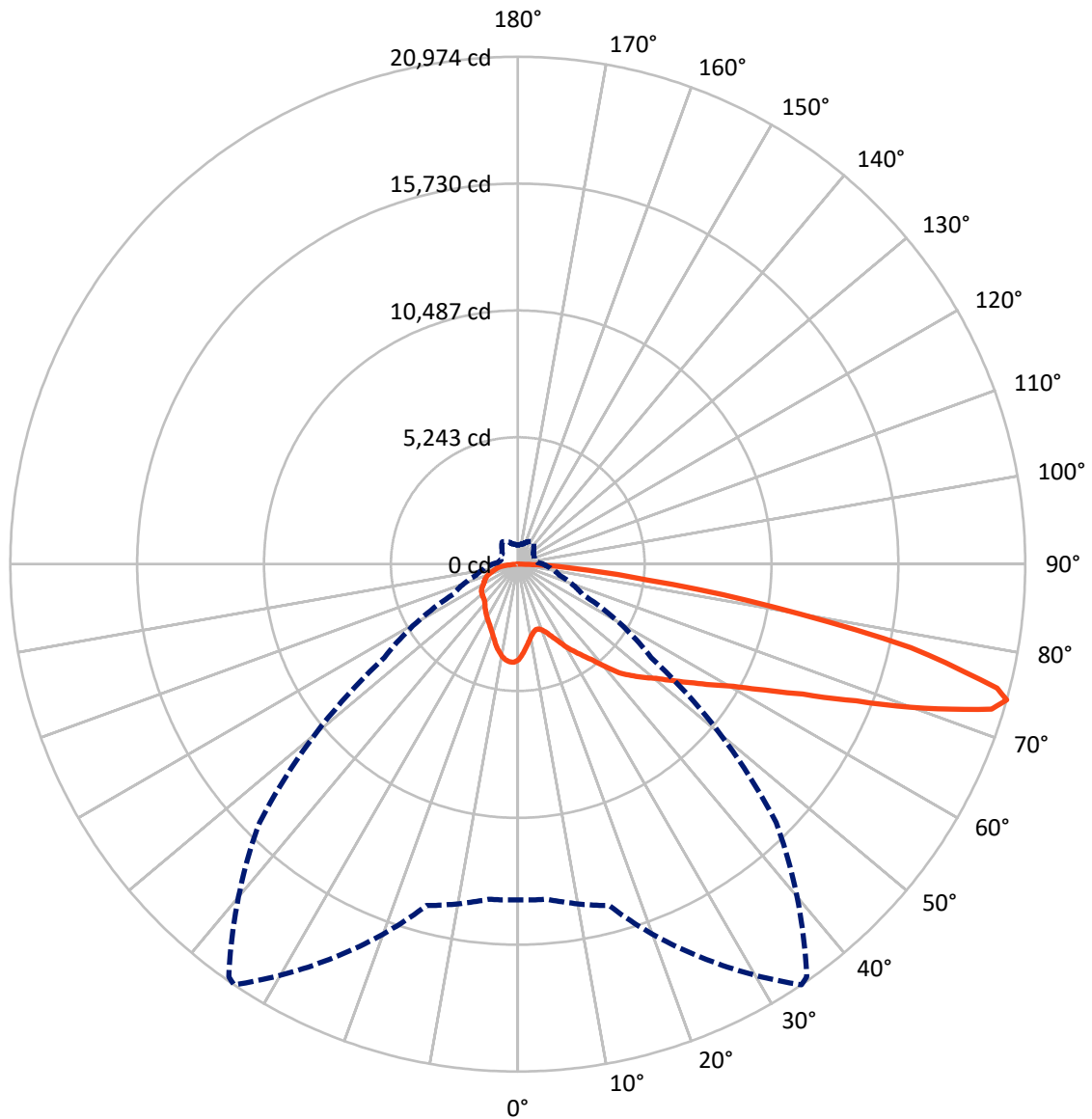
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	5510.4	0.0	5510.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	20383.6	0.0	20383.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	25894.0	0.0	25894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.6	1.4
10°-20°	984.3	3.8
20°-30°	1622.8	6.3
30°-40°	2430.8	9.4
40°-50°	3533.7	13.6
50°-60°	4935.7	19.1
60°-70°	6179.2	23.9
70°-80°	5109.7	19.7
80°-90°	738.3	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°	25894.0	100.0
0°-180°	25894.0	100.0

**Coefficient of Utilization**



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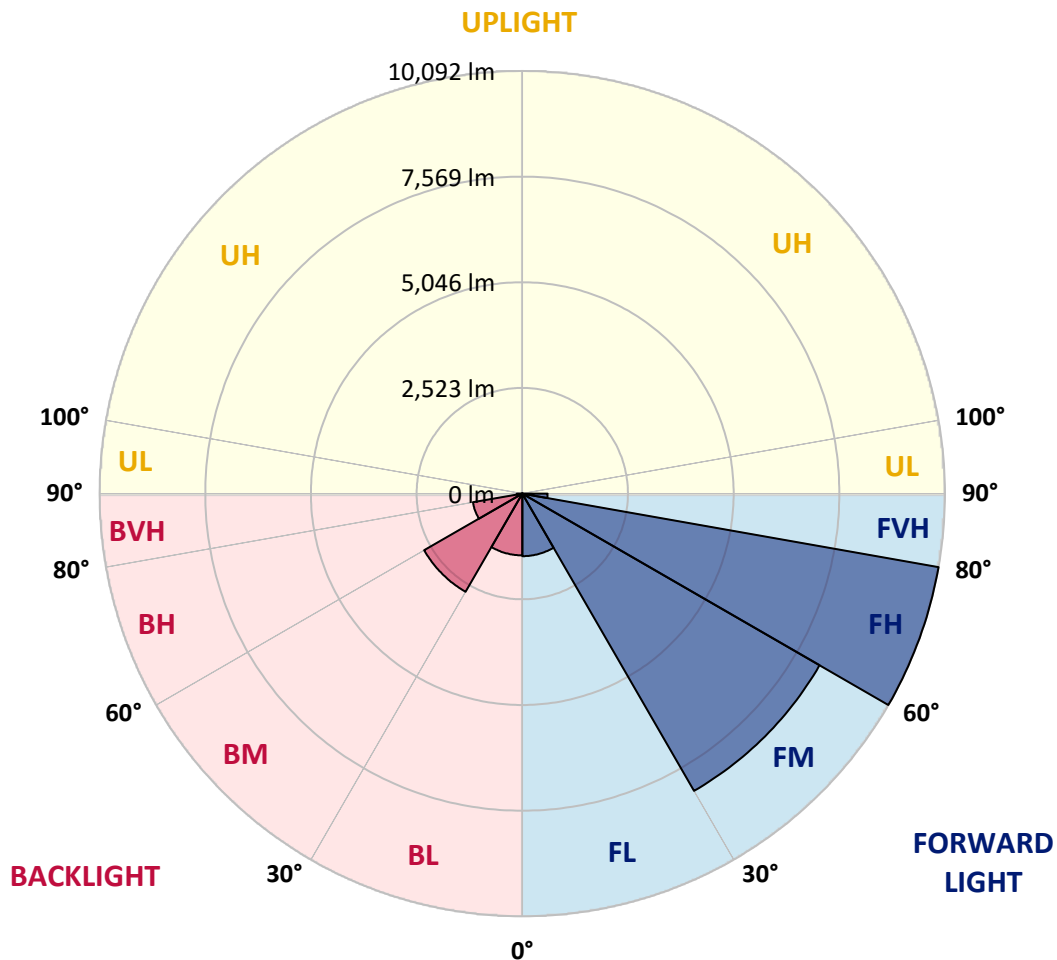
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.7	5.8			
FM (30°-60°)	8193.9	31.6			
FH (60°-80°)	10092.1	39.0			G4/12000
FVH (80°-90°)	604.9	2.3			G4/750
BL (0°-30°)	1473.9	5.7	B3/2500		
BM (30°-60°)	2706.2	10.5	B3/5000		
BH (60°-80°)	1196.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	133.5	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°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
2.5°	3653.7	3672.3	3682.4	3718.2	3726.8	3738.3	3768.5	3808.6	3860.3	3906.2	3946.3
5°	3349.6	3378.3	3395.5	3427.0	3488.7	3494.5	3574.8	3666.6	3771.3	3868.9	3949.2
7.5°	3061.2	3092.8	3107.1	3164.5	3246.3	3259.2	3376.8	3521.7	3696.7	3844.5	3967.8
10°	2844.6	2860.4	2892.0	2935.0	3032.5	3041.2	3194.6	3388.3	3615.0	3833.0	3999.4
12.5°	2727.0	2735.6	2742.8	2788.7	2884.8	2897.7	3058.4	3277.8	3550.4	3841.6	4051.0
15°	2744.2	2747.1	2715.5	2724.1	2801.6	2820.2	2979.5	3204.7	3510.2	3863.1	4128.5
17.5°	2889.1	2879.1	2801.6	2761.4	2815.9	2824.5	2963.7	3176.0	3491.6	3903.3	4208.8
20°	3117.2	3102.8	2969.4	2880.5	2912.0	2919.2	3015.3	3197.5	3510.2	3969.3	4333.6
22.5°	3401.2	3395.5	3193.2	3085.6	3084.2	3084.2	3134.4	3275.0	3566.2	4059.7	4464.2
25°	3798.6	3768.5	3504.5	3365.4	3326.6	3323.8	3318.0	3402.7	3637.9	4155.8	4619.1
27.5°	4206.0	4154.3	3919.1	3705.3	3622.1	3612.1	3574.8	3583.4	3729.7	4264.8	4795.6
30°	4571.8	4538.8	4317.9	4081.2	3982.2	3959.2	3856.0	3808.6	3883.2	4461.3	5076.7
32.5°	4851.5	4831.4	4659.3	4444.1	4297.8	4293.5	4142.9	4104.1	4122.8	4699.4	5398.1
35°	5078.2	5085.3	4997.8	4811.3	4643.5	4619.1	4518.7	4469.9	4415.4	5043.7	5802.6
37.5°	5388.0	5403.8	5398.1	5237.4	5032.3	5038.0	5015.0	4934.7	4789.8	5428.2	6251.6
40°	5729.4	5740.9	5739.5	5677.8	5570.2	5575.9	5567.3	5475.5	5258.9	5917.3	6750.8
42.5°	6201.4	6146.9	6004.8	6066.5	6129.6	6156.9	6215.7	6128.2	5831.3	6439.5	7219.9
45°	6729.3	6626.0	6304.7	6333.3	6567.2	6618.8	6943.0	6822.5	6452.4	7039.1	7772.2
47.5°	7062.1	6960.2	6689.1	6683.4	6993.2	7043.4	7617.2	7572.8	7017.6	7686.1	8446.4
50°	7359.0	7344.7	7039.1	7112.3	7415.0	7489.6	8351.7	8310.1	7581.4	8449.2	9180.8
52.5°	7799.4	7683.2	7439.4	7590.0	7990.2	8087.8	9080.4	8958.5	8099.2	9123.5	9893.8
55°	7997.4	7970.1	7955.8	8086.3	8635.7	8706.0	9789.1	9509.3	8541.1	9694.4	10436.0
57.5°	8526.7	8476.5	8618.5	8707.5	9396.0	9503.6	10529.3	10084.6	8928.4	10147.7	10700.0
60°	9212.4	9185.1	9315.7	9476.4	10245.3	10408.8	11372.8	10575.2	9239.7	10375.8	10555.1
62.5°	10236.6	10233.8	10209.4	10553.7	11448.8	11599.4	12341.1	11052.9	9288.4	10205.1	9806.3
65°	11705.6	11653.9	11441.6	11817.5	12946.4	13122.9	13349.5	11319.7	8994.4	9328.6	8257.0
67.5°	13241.9	13239.1	13066.9	13554.7	15096.8	15278.9	14610.5	11260.9	8178.1	7557.0	5864.3
70°	14515.8	14454.1	14673.6	15973.2	17843.8	18054.7	15713.6	10568.0	6514.1	4990.7	3484.4
72.5°	14821.3	14824.2	15280.4	17838.1	20481.9	20514.9	16110.9	8565.4	4359.5	2752.8	1742.9
74°	13880.3	13904.7	14611.9	17931.3	20973.9	20824.7	15095.3	6732.1	2947.9	1797.4	1256.6
75°	12669.6	12516.1	13538.9	17310.2	20463.2	20302.6	13906.1	5402.4	2249.3	1435.9	1100.3
77.5°	6773.7	6930.1	8508.1	12917.7	16624.5	16439.5	9429.0	2590.7	1215.0	999.9	791.8
80°	2411.4	2659.6	3738.3	6759.4	10658.4	10715.8	4500.0	1187.8	855.0	737.3	559.5
82.5°	984.1	1011.3	1605.2	2999.6	5412.4	5464.0	1837.6	705.8	611.1	507.8	334.2
85°	384.4	395.9	710.1	1348.4	2309.6	2460.2	635.5	373.0	375.8	291.2	170.7
87.5°	129.1	146.3	291.2	449.0	784.7	768.9	185.1	110.5	134.8	126.2	53.1
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°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
2.5°	3966.4	3993.7	4012.3	4032.4	4051.0	4056.8	4052.5	4065.4	4066.8	4068.3	4069.7
5°	3989.4	4026.7	4062.5	4082.6	4091.2	4084.0	4059.7	4046.7	4035.3	4026.7	4029.5
7.5°	4020.9	4074.0	4107.0	4115.6	4092.6	4059.7	3999.4	3952.1	3921.9	3901.9	3900.4
10°	4069.7	4121.3	4148.6	4124.2	4061.1	3980.8	3886.1	3797.1	3729.7	3709.6	3708.2
12.5°	4131.4	4190.2	4188.8	4117.0	4006.6	3863.1	3709.6	3606.4	3514.5	3468.6	3487.3
15°	4211.7	4256.2	4214.6	4085.5	3910.5	3713.9	3524.6	3384.0	3280.7	3231.9	3234.8
17.5°	4305.0	4343.7	4233.2	4029.5	3775.6	3523.1	3303.7	3170.3	3088.5	3052.6	3049.8
20°	4421.2	4432.6	4233.2	3932.0	3602.0	3300.8	3091.4	2998.1	2952.2	2933.6	2939.3
22.5°	4546.0	4523.0	4210.3	3794.3	3374.0	3068.4	2927.8	2886.2	2863.3	2860.4	2863.3
25°	4686.5	4622.0	4162.9	3607.8	3135.8	2867.6	2785.8	2793.0	2797.3	2797.3	2807.3
27.5°	4858.7	4729.6	4084.0	3372.5	2857.5	2681.1	2658.1	2708.3	2731.3	2735.6	2742.8
30°	5085.3	4847.2	3953.5	3078.5	2620.8	2513.3	2553.4	2620.8	2646.7	2662.4	2659.6
32.5°	5355.0	4976.3	3777.1	2784.4	2430.1	2395.6	2444.4	2513.3	2541.9	2550.6	2539.1
35°	5672.0	5122.6	3544.7	2509.0	2263.7	2283.7	2341.1	2362.6	2388.5	2388.5	2394.2
37.5°	6013.5	5240.3	3260.6	2256.5	2134.5	2207.7	2249.3	2229.2	2217.7	2203.4	2210.6
40°	6360.6	5327.8	2892.0	2006.9	2005.4	2128.8	2140.3	2082.9	2037.0	2022.7	2015.5
42.5°	6663.3	5382.3	2559.2	1813.2	1883.5	2051.3	2060.0	1968.1	1895.0	1851.9	1837.6
45°	7020.5	5445.4	2233.5	1652.6	1770.2	1989.7	2011.2	1887.8	1780.2	1689.8	1666.9
47.5°	7509.6	5588.8	1976.8	1527.8	1688.4	1950.9	1981.1	1821.8	1679.8	1562.2	1543.5
50°	8061.9	5785.4	1777.4	1443.1	1625.3	1916.5	1953.8	1754.4	1586.6	1456.0	1441.7
52.5°	8568.3	5891.5	1605.2	1367.1	1563.6	1853.4	1917.9	1705.6	1494.8	1349.9	1337.0
55°	8845.2	5719.4	1435.9	1292.5	1479.0	1771.6	1867.7	1638.2	1405.8	1293.9	1275.3
57.5°	8882.5	5363.6	1282.4	1212.2	1390.0	1671.2	1774.5	1556.4	1348.4	1255.2	1239.4
60°	8594.1	4832.9	1163.4	1146.2	1299.7	1557.9	1669.8	1484.7	1289.6	1212.2	1196.4
62.5°	7876.9	4256.2	1080.2	1085.9	1207.9	1438.8	1592.3	1415.9	1233.7	1164.8	1150.5
65°	6643.2	3513.1	999.9	1024.2	1126.1	1345.6	1522.0	1358.5	1177.7	1129.0	1116.0
67.5°	4614.8	2536.2	933.9	959.7	1048.6	1250.9	1440.2	1296.8	1114.6	1088.8	1068.7
70°	2554.9	1560.7	856.4	886.5	968.3	1144.7	1348.4	1203.6	1022.8	1011.3	982.6
72.5°	1342.7	994.1	768.9	801.9	859.3	1008.5	1207.9	1101.7	932.4	883.7	846.4
74°	1048.6	814.8	710.1	744.5	783.2	928.1	1124.7	1028.5	867.9	810.5	781.8
75°	913.8	725.9	659.9	704.3	738.8	873.6	1060.1	976.9	832.0	777.5	751.7
77.5°	645.5	543.7	539.4	592.5	611.1	766.0	955.4	889.4	741.6	684.3	659.9
80°	453.3	407.4	427.5	460.5	486.3	677.1	886.5	768.9	608.2	540.8	532.2
82.5°	295.5	266.8	305.6	335.7	344.3	499.2	715.8	583.8	443.3	360.1	334.2
85°	136.3	133.4	175.0	170.7	169.3	243.9	424.6	341.4	255.3	190.8	179.3
87.5°	34.4	33.0	43.0	35.9	43.0	37.3	38.7	10.0	1.4	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)