

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: P453485

Luminaire Tested: **GALN-SA4C-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25473 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

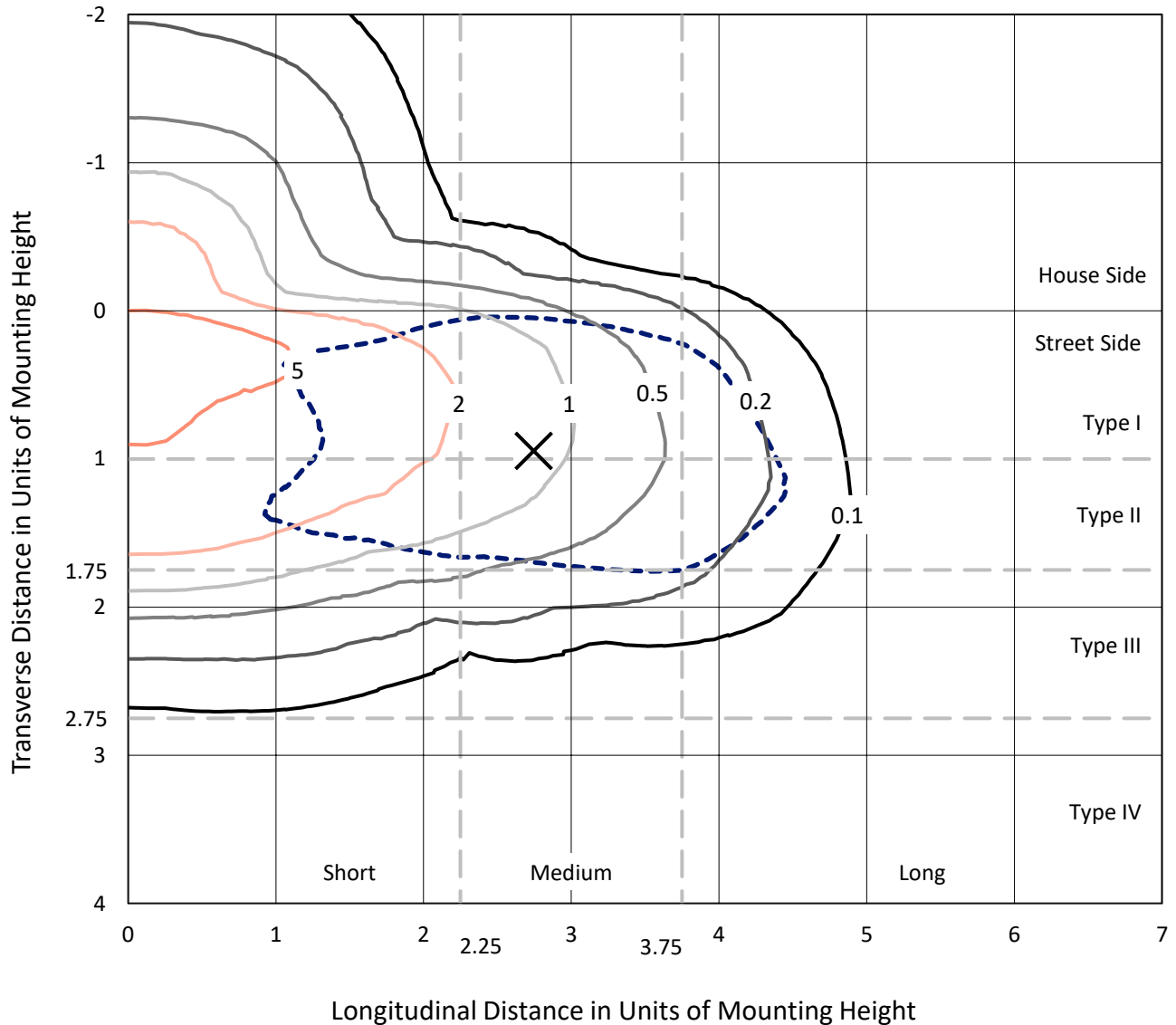
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

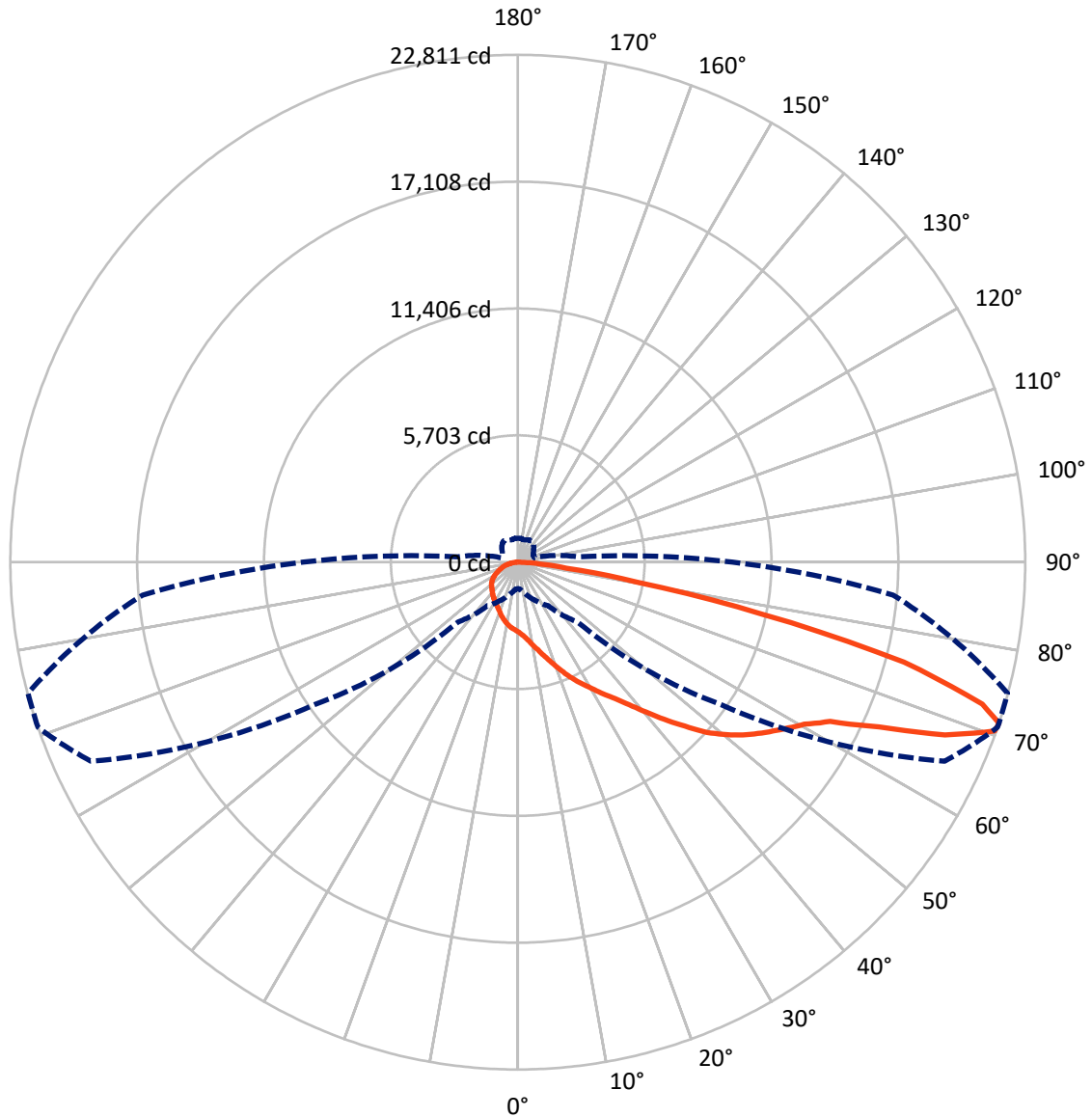
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4581.2	0.0	4581.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	20891.7	0.0	20891.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	25473.0	0.0	25473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.9	1.2
10°-20°	1019.8	4.0
20°-30°	1782.3	7.0
30°-40°	2650.9	10.4
40°-50°	3905.8	15.3
50°-60°	5468.1	21.5
60°-70°	6115.9	24.0
70°-80°	3735.8	14.7
80°-90°	480.6	1.9
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°	25473.0	100.0
0°-180°	25473.0	100.0

**Coefficient of Utilization**



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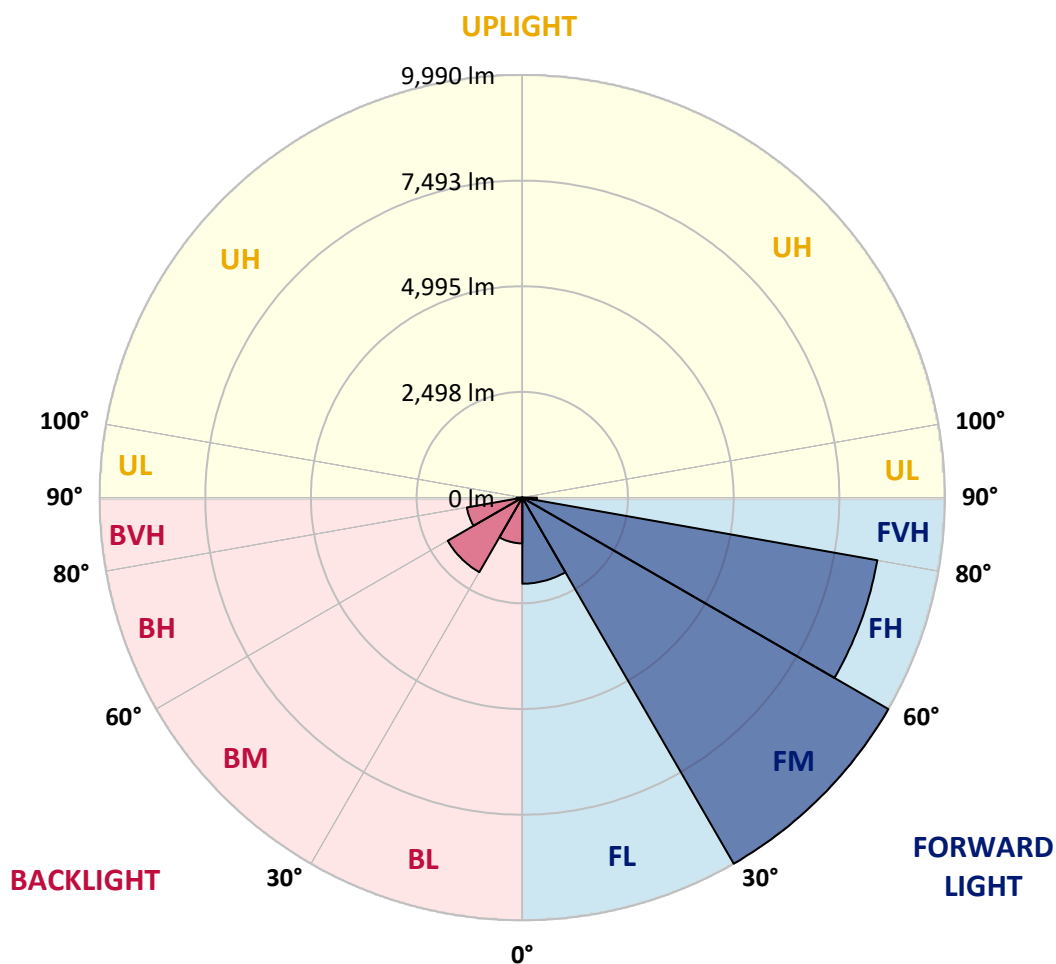
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2035.3	8.0			
FM	(30°-60°)	9990.0	39.2			
FH	(60°-80°)	8520.6	33.4			G4/12000
FVH	(80°-90°)	345.8	1.4			G3/500
BL	(0°-30°)	1080.7	4.2	B3/2500		
BM	(30°-60°)	2034.7	8.0	B2/2500		
BH	(60°-80°)	1331.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	134.8	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3
2.5°	3470.7	3453.9	3455.3	3431.5	3400.7	3367.1	3319.5	3277.5	3243.9	3224.3	3166.9
5°	3845.9	3829.1	3808.1	3756.3	3733.9	3651.3	3546.3	3451.1	3378.3	3337.7	3222.9
7.5°	4149.7	4145.5	4139.9	4110.5	4053.1	3938.3	3848.7	3683.5	3575.7	3498.7	3302.7
10°	4337.4	4344.4	4348.6	4354.2	4330.3	4270.1	4146.9	3938.3	3801.1	3703.1	3406.3
12.5°	4432.6	4439.6	4463.4	4515.2	4547.4	4540.4	4439.6	4235.1	4046.1	3917.3	3516.9
15°	4491.4	4502.6	4544.6	4613.2	4721.0	4789.6	4740.6	4551.6	4344.4	4191.7	3648.5
17.5°	4555.8	4568.4	4614.6	4712.6	4854.0	5002.4	5055.6	4893.2	4667.8	4485.8	3795.5
20°	4592.2	4609.0	4674.8	4803.6	4968.8	5184.4	5360.8	5275.4	5029.0	4827.4	3964.9
22.5°	4651.0	4665.0	4721.0	4858.2	5055.6	5325.8	5666.0	5647.8	5430.8	5170.4	4151.1
25°	4810.6	4833.0	4861.0	4943.6	5134.0	5470.0	5919.4	6045.4	5820.0	5528.8	4321.9
27.5°	5111.6	5129.8	5128.4	5139.6	5247.4	5594.6	6139.2	6438.8	6206.4	5891.4	4487.2
30°	5454.6	5461.6	5467.2	5442.0	5465.8	5722.0	6340.8	6828.0	6595.6	6263.8	4631.4
32.5°	5871.8	5885.8	5838.2	5773.8	5754.2	5911.0	6507.4	7217.2	7056.2	6641.8	4774.2
35°	6364.6	6401.0	6304.4	6191.0	6111.2	6182.6	6731.4	7614.9	7528.1	7124.8	4963.2
37.5°	6927.4	6972.2	6882.6	6660.0	6546.6	6566.2	7024.0	8106.3	8124.5	7675.1	5244.6
40°	7388.1	7446.9	7449.7	7134.6	6962.4	6984.8	7395.1	8635.5	8844.1	8355.5	5576.4
42.5°	7691.9	7749.3	7809.5	7624.7	7444.1	7571.5	7827.7	9209.5	9653.3	9181.5	6039.8
45°	8025.1	8076.9	8110.5	8026.5	7925.7	8256.1	8349.9	9819.9	10515.8	10104.1	6546.6
47.5°	8411.5	8468.9	8501.1	8421.3	8383.5	8856.7	8912.7	10389.8	11437.0	11000.2	7106.6
50°	8926.7	8970.1	8953.3	8902.9	8894.5	9317.3	9453.1	10923.2	12197.2	11964.8	7687.7
52.5°	9567.9	9619.7	9637.9	9566.5	9534.3	9646.3	9888.5	11409.0	12888.8	12793.6	8307.9
55°	9955.7	10038.3	10315.6	10427.6	10504.6	10071.9	10357.6	11945.2	13509.1	13667.3	8974.3
57.5°	9458.7	9565.1	10185.4	10745.4	11469.2	11136.0	11022.6	12505.2	14129.3	14514.3	9772.3
60°	8246.3	8270.1	9069.5	10101.3	11557.4	12503.8	12410.0	13395.7	14801.3	15368.3	10823.8
62.5°	5720.6	5771.0	6716.0	8362.5	10468.2	12996.7	14770.5	14932.9	15764.5	16646.6	12365.2
65°	2949.9	2884.1	3745.1	5255.8	7892.1	11826.2	16683.0	17759.6	17853.4	18645.8	14535.3
67.5°	1815.9	1845.3	2248.5	3068.9	4666.4	8594.9	16482.8	21213.5	20719.3	21100.1	16550.0
70°	1363.6	1400.0	1677.3	2100.1	2844.9	4914.2	13255.7	22050.8	22741.0	22643.0	17163.2
71°	1185.8	1223.6	1512.1	1911.1	2389.9	3792.7	11168.2	21174.3	22811.0	22794.2	16932.2
72.5°	1010.8	1034.6	1260.0	1618.5	2014.7	2658.7	8390.5	18990.3	21838.0	22396.6	16107.6
75°	793.8	812.0	912.8	1234.8	1586.3	1632.5	4502.6	14237.1	17936.0	19000.1	13409.7
77.5°	646.8	659.4	711.2	917.0	1223.6	1156.4	2361.9	9266.9	11236.8	12307.8	7899.1
80°	513.8	527.8	558.6	621.6	917.0	824.6	1127.0	4695.8	5428.0	5416.8	3152.9
82.5°	399.0	403.2	439.6	456.4	627.2	585.2	610.4	1988.1	2202.3	2275.1	1138.2
85°	252.0	264.6	389.2	350.0	375.2	343.0	301.0	789.6	973.0	959.0	455.0
87.5°	77.0	81.2	131.6	148.4	166.6	149.8	110.6	232.4	284.2	308.0	113.4
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°	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3	3126.3
2.5°	3144.5	3129.1	3074.5	3029.7	2987.7	2941.5	2902.3	2891.1	2881.3	2877.1	2875.7
5°	3173.9	3127.7	3019.9	2931.7	2861.7	2797.3	2756.7	2738.5	2720.3	2720.3	2725.9
7.5°	3215.9	3131.9	2965.3	2833.7	2745.5	2685.3	2655.9	2653.1	2657.3	2661.5	2662.9
10°	3262.1	3129.1	2885.5	2721.7	2643.3	2615.3	2616.7	2640.5	2662.9	2679.7	2682.5
12.5°	3306.9	3112.3	2791.7	2616.7	2566.3	2571.9	2611.1	2664.3	2707.7	2731.5	2732.9
15°	3357.3	3085.7	2678.3	2517.3	2500.5	2543.9	2616.7	2697.9	2763.7	2802.9	2807.1
17.5°	3399.3	3040.9	2559.3	2420.7	2441.7	2521.5	2622.3	2727.3	2807.1	2856.1	2864.5
20°	3446.9	2983.5	2436.1	2328.3	2388.5	2496.3	2611.1	2724.5	2807.1	2854.7	2865.9
22.5°	3484.7	2902.3	2318.5	2252.7	2340.9	2465.5	2573.3	2664.3	2731.5	2756.7	2773.5
25°	3500.1	2800.1	2207.9	2191.1	2303.1	2415.1	2487.9	2539.7	2560.7	2557.9	2564.9
27.5°	3491.7	2682.5	2112.7	2142.1	2255.5	2336.7	2373.1	2368.9	2331.1	2296.1	2312.9
30°	3456.7	2542.5	2032.9	2091.7	2193.9	2238.7	2233.1	2178.5	2107.1	2041.3	2045.5
32.5°	3393.7	2391.3	1958.7	2034.3	2107.1	2126.7	2088.9	2017.5	1915.3	1829.9	1817.3
35°	3340.5	2247.1	1892.9	1968.5	2020.3	2010.5	1974.1	1881.7	1789.3	1713.7	1701.1
37.5°	3332.1	2123.9	1829.9	1894.3	1923.7	1909.7	1864.9	1786.5	1752.9	1695.5	1688.5
40°	3376.9	2037.1	1765.5	1815.9	1829.9	1818.7	1769.7	1724.9	1755.7	1741.7	1741.7
42.5°	3498.7	1990.9	1708.1	1737.5	1748.7	1757.1	1722.1	1684.3	1722.1	1657.7	1636.7
45°	3691.9	1992.3	1656.3	1660.5	1694.1	1723.5	1699.7	1643.7	1624.1	1495.3	1470.1
47.5°	3976.1	2039.9	1614.3	1587.7	1647.9	1696.9	1663.3	1582.1	1495.3	1409.8	1394.4
50°	4307.9	2125.3	1576.5	1512.1	1586.3	1663.3	1638.1	1542.9	1453.3	1401.4	1391.6
52.5°	4676.2	2233.1	1530.3	1428.0	1510.7	1647.9	1643.7	1537.3	1414.0	1379.0	1370.6
55°	5131.2	2339.5	1472.9	1330.0	1443.4	1635.3	1628.3	1491.1	1405.6	1380.4	1377.6
57.5°	5660.4	2493.5	1390.2	1230.6	1366.4	1583.5	1568.1	1463.1	1377.6	1359.4	1358.0
60°	6513.0	2732.9	1272.6	1139.6	1288.0	1492.5	1512.1	1415.4	1332.8	1328.6	1327.2
62.5°	7634.5	3068.9	1150.8	1045.8	1197.0	1374.8	1430.8	1351.0	1285.2	1306.2	1309.0
65°	9182.9	3351.7	1024.8	966.0	1096.2	1261.4	1353.8	1290.8	1232.0	1272.6	1272.6
67.5°	10192.4	3357.3	910.0	883.4	994.0	1166.2	1272.6	1219.4	1163.4	1232.0	1234.8
70°	9982.3	2941.5	814.8	796.6	894.6	1064.0	1183.0	1141.0	1076.6	1138.2	1115.8
71°	9643.5	2710.5	777.0	763.0	855.4	1015.0	1141.0	1106.0	1041.6	1082.2	1069.6
72.5°	9103.1	2353.5	715.4	718.2	796.6	953.4	1082.2	1045.8	981.4	1003.8	999.6
75°	7694.7	2055.3	611.8	624.4	684.6	848.4	964.6	936.6	870.8	870.8	866.6
77.5°	4810.6	1436.4	508.2	515.2	581.0	726.6	828.8	805.0	742.0	721.0	715.4
80°	1794.9	742.0	397.6	406.0	446.6	572.6	686.0	663.6	599.2	575.4	553.0
82.5°	679.0	372.4	292.6	285.6	329.0	436.8	537.6	511.0	460.6	403.2	386.4
85°	256.2	184.8	179.2	173.6	193.2	259.0	333.2	327.6	274.4	233.8	229.6
87.5°	67.2	60.2	70.0	51.8	54.6	49.0	50.4	21.0	9.8	4.2	2.8
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)