

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: P456277

Luminaire Tested: **GALN-SA7C-730-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456277  
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-SA7C-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1050mA 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: 44498 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

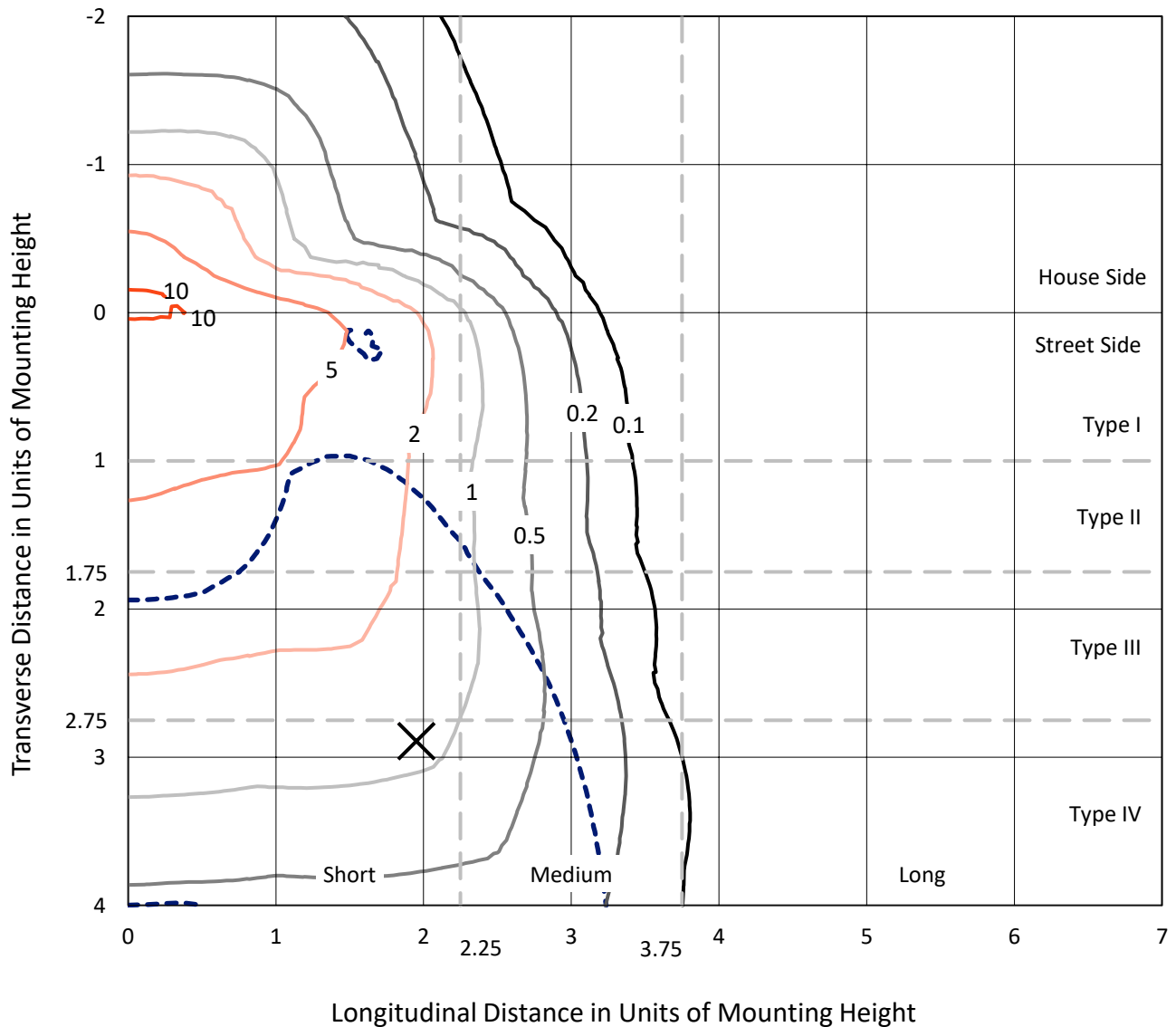
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

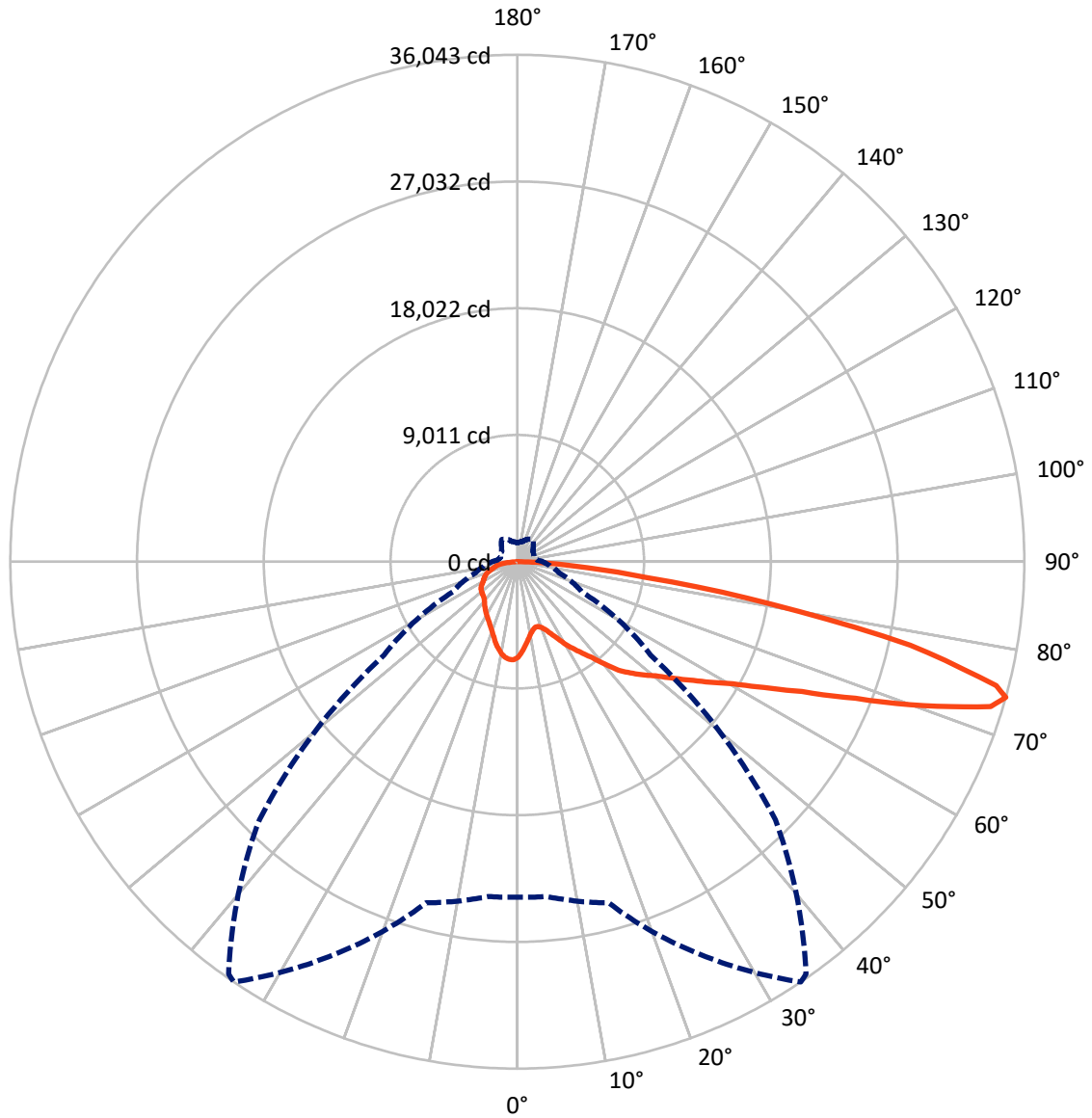
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	9469.5	0.0	9469.5
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	35028.5	0.0	35028.5
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	44498.0	0.0	44498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.9	1.4
10°-20°	1691.4	3.8
20°-30°	2788.7	6.3
30°-40°	4177.2	9.4
40°-50°	6072.5	13.6
50°-60°	8481.8	19.1
60°-70°	10618.8	23.9
70°-80°	8780.9	19.7
80°-90°	1268.8	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°	44498.0	100.0
0°-180°	44498.0	100.0

**Coefficient of Utilization**



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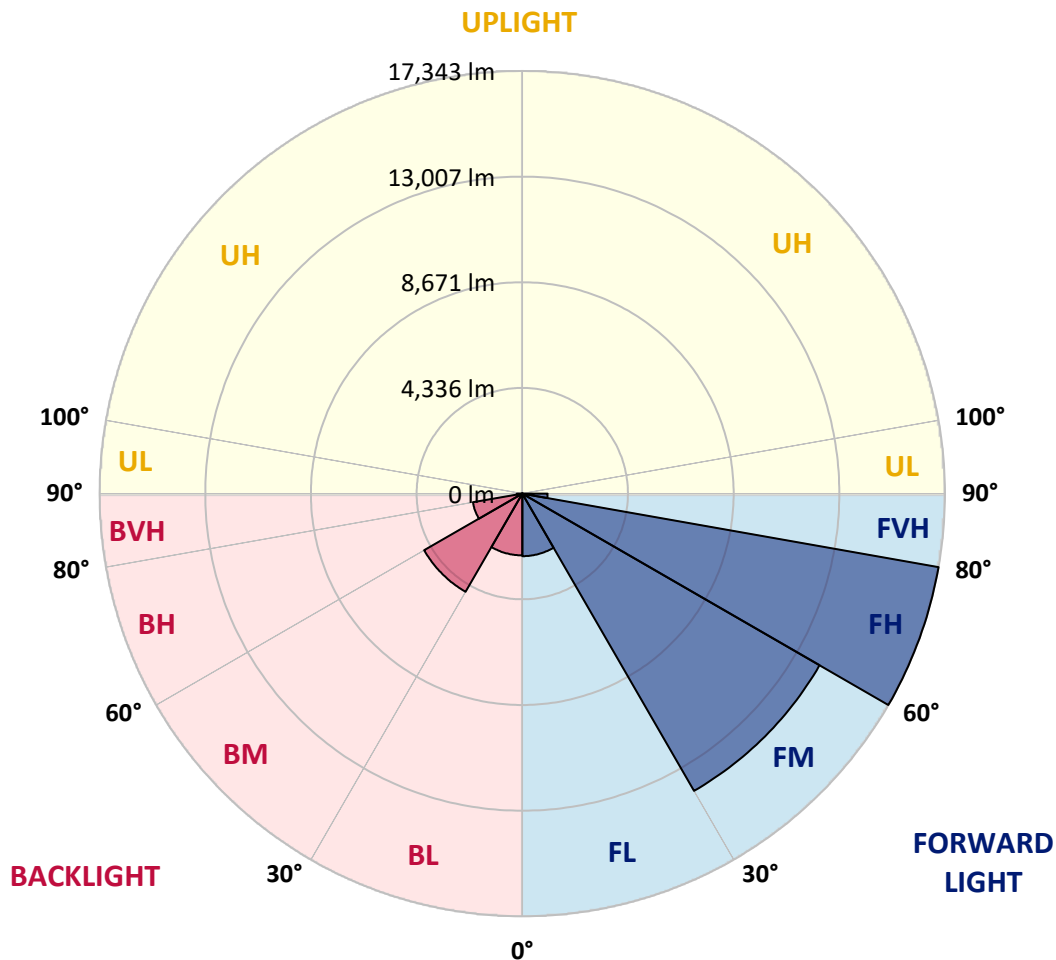
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2565.1	5.8			
FM	(30°-60°)	14081.0	31.6			
FH	(60°-80°)	17343.0	39.0			G5
FVH	(80°-90°)	1039.4	2.3			G5
BL	(0°-30°)	2532.9	5.7	B4/5000		
BM	(30°-60°)	4650.5	10.5	B3/5000		
BH	(60°-80°)	2056.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0
2.5°	6278.7	6310.8	6328.1	6389.7	6404.5	6424.2	6476.0	6545.0	6633.7	6712.6	6781.6
5°	5756.1	5805.4	5835.0	5889.3	5995.3	6005.1	6143.2	6300.9	6480.9	6648.5	6786.6
7.5°	5260.6	5314.9	5339.5	5438.1	5578.6	5600.8	5803.0	6052.0	6352.7	6606.6	6818.6
10°	4888.4	4915.5	4969.8	5043.7	5211.3	5226.1	5489.9	5822.7	6212.2	6586.9	6872.8
12.5°	4686.3	4701.0	4713.4	4792.3	4957.4	4979.6	5255.7	5632.9	6101.3	6601.7	6961.6
15°	4715.8	4720.8	4666.5	4681.3	4814.4	4846.5	5120.1	5507.2	6032.2	6638.7	7094.7
17.5°	4964.8	4947.6	4814.4	4745.4	4839.1	4853.9	5093.0	5457.9	6000.2	6707.7	7232.8
20°	5356.8	5332.1	5102.9	4950.0	5004.3	5016.6	5181.8	5494.8	6032.2	6821.1	7447.2
22.5°	5844.9	5835.0	5487.4	5302.5	5300.1	5300.1	5386.4	5627.9	6128.4	6976.4	7671.6
25°	6527.7	6476.0	6022.4	5783.3	5716.7	5711.8	5701.9	5847.3	6251.6	7141.6	7937.8
27.5°	7227.8	7139.1	6734.8	6367.5	6224.5	6207.3	6143.2	6158.0	6409.4	7328.9	8241.0
30°	7856.4	7799.7	7420.1	7013.4	6843.3	6803.8	6626.3	6545.0	6673.2	7666.6	8724.2
32.5°	8337.2	8302.6	8006.8	7637.0	7385.6	7378.2	7119.4	7052.8	7084.9	8075.8	9276.4
35°	8726.6	8739.0	8588.6	8268.1	7979.7	7937.8	7765.2	7681.4	7587.7	8667.5	9971.5
37.5°	9259.1	9286.2	9276.4	9000.3	8647.8	8657.6	8618.2	8480.1	8231.1	9328.1	10743.1
40°	9845.8	9865.5	9863.1	9757.1	9572.2	9582.1	9567.3	9409.5	9037.3	10168.8	11601.0
42.5°	10656.9	10563.2	10319.1	10425.1	10533.6	10580.4	10681.5	10531.1	10020.9	11066.1	12407.1
45°	11564.0	11386.5	10834.4	10883.7	11285.5	11374.2	11931.3	11724.3	11088.3	12096.5	13356.2
47.5°	12136.0	11960.9	11495.0	11485.2	12017.6	12103.9	13090.0	13013.5	12059.5	13208.3	14514.8
50°	12646.2	12621.6	12096.5	12222.2	12742.4	12870.6	14352.1	14280.6	13028.3	14519.8	15777.0
52.5°	13403.0	13203.4	12784.3	13043.1	13730.9	13898.5	15604.4	15394.9	13918.3	15678.4	17002.2
55°	13743.2	13696.4	13671.7	13896.1	14840.2	14961.0	16822.2	16341.5	14677.5	16659.5	17934.0
57.5°	14652.9	14566.6	14810.6	14963.5	16146.8	16331.6	18094.2	17330.0	15343.1	17438.5	18387.6
60°	15831.2	15784.4	16008.7	16284.8	17606.1	17887.2	19543.7	18173.1	15878.1	17830.5	18138.6
62.5°	17591.3	17586.4	17544.5	18136.1	19674.4	19933.2	21207.7	18994.0	15961.9	17537.1	16851.8
65°	20115.7	20026.9	19662.1	20307.9	22248.0	22551.2	22940.7	19452.5	15456.5	16030.9	14189.4
67.5°	22755.8	22750.9	22455.1	23293.2	25943.3	26256.4	25107.6	19351.5	14053.8	12986.4	10077.5
70°	24944.9	24838.9	25216.1	27449.5	30664.1	31026.4	27003.3	18160.8	11194.3	8576.3	5987.9
72.5°	25470.0	25474.9	26258.8	30654.2	35197.5	35254.2	27686.1	14719.4	7491.6	4730.6	2995.2
74°	23852.8	23894.7	25110.1	30814.4	36043.0	35786.6	25940.8	11569.0	5065.9	3088.8	2159.5
75°	21772.2	21508.5	23266.1	29747.0	35165.4	34889.3	23897.2	9283.8	3865.4	2467.6	1890.8
77.5°	11640.5	11909.2	14620.8	22198.7	28568.7	28250.7	16203.5	4452.1	2088.0	1718.2	1360.8
80°	4143.9	4570.4	6424.2	11615.8	18316.1	18414.7	7733.2	2041.1	1469.2	1267.1	961.4
82.5°	1691.1	1737.9	2758.5	5154.6	9301.0	9389.8	3157.9	1212.9	1050.2	872.7	574.4
85°	660.7	680.4	1220.3	2317.2	3968.9	4227.7	1092.1	640.9	645.9	500.4	293.4
87.5°	221.9	251.4	500.4	771.6	1348.4	1321.3	318.0	189.8	231.7	216.9	91.2
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°	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0	6794.0
2.5°	6816.2	6863.0	6895.0	6929.5	6961.6	6971.5	6964.1	6986.2	6988.7	6991.2	6993.6
5°	6855.6	6919.7	6981.3	7015.8	7030.6	7018.3	6976.4	6954.2	6934.5	6919.7	6924.6
7.5°	6909.8	7001.0	7057.7	7072.5	7033.1	6976.4	6872.8	6791.5	6739.7	6705.2	6702.8
10°	6993.6	7082.4	7129.2	7087.3	6978.9	6840.8	6678.1	6525.3	6409.4	6374.9	6372.4
12.5°	7099.6	7200.7	7198.2	7075.0	6885.2	6638.7	6374.9	6197.4	6039.6	5960.7	5992.8
15°	7237.7	7314.1	7242.6	7020.8	6720.0	6382.3	6056.9	5815.3	5637.8	5554.0	5558.9
17.5°	7397.9	7464.5	7274.7	6924.6	6488.3	6054.4	5677.2	5448.0	5307.5	5245.8	5240.9
20°	7597.6	7617.3	7274.7	6757.0	6190.0	5672.3	5312.4	5152.2	5073.3	5041.2	5051.1
22.5°	7812.1	7772.6	7235.2	6520.3	5798.0	5273.0	5031.4	4959.9	4920.4	4915.5	4920.4
25°	8053.7	7942.7	7153.9	6199.9	5388.8	4927.8	4787.3	4799.7	4807.1	4807.1	4824.3
27.5°	8349.5	8127.6	7018.3	5795.6	4910.6	4607.4	4567.9	4654.2	4693.7	4701.0	4713.4
30°	8739.0	8329.8	6794.0	5290.2	4503.8	4318.9	4388.0	4503.8	4548.2	4575.3	4570.4
32.5°	9202.4	8551.6	6490.8	4784.9	4176.0	4116.8	4200.6	4318.9	4368.3	4383.0	4363.3
35°	9747.2	8803.1	6091.4	4311.6	3890.0	3924.5	4023.1	4060.1	4104.5	4104.5	4114.3
37.5°	10333.9	9005.2	5603.3	3877.7	3668.1	3793.9	3865.4	3830.8	3811.1	3786.5	3798.8
40°	10930.5	9155.6	4969.8	3448.8	3446.3	3658.3	3678.0	3579.4	3500.5	3475.9	3463.5
42.5°	11450.6	9249.3	4397.8	3116.0	3236.7	3525.2	3540.0	3382.2	3256.5	3182.5	3157.9
45°	12064.5	9357.7	3838.2	2839.9	3042.0	3419.2	3456.1	3244.1	3059.3	2904.0	2864.5
47.5°	12905.1	9604.2	3397.0	2625.4	2901.5	3352.6	3404.4	3130.7	2886.7	2684.6	2652.5
50°	13854.2	9942.0	3054.3	2479.9	2793.0	3293.4	3357.5	3014.9	2726.5	2502.1	2477.5
52.5°	14724.4	10124.4	2758.5	2349.3	2687.0	3185.0	3295.9	2931.1	2568.7	2319.7	2297.5
55°	15200.1	9828.6	2467.6	2221.1	2541.6	3044.5	3209.6	2815.2	2415.9	2223.6	2191.5
57.5°	15264.2	9217.2	2203.8	2083.1	2388.7	2871.9	3049.4	2674.7	2317.2	2157.0	2129.9
60°	14768.7	8305.1	1999.2	1969.7	2233.4	2677.2	2869.4	2551.4	2216.2	2083.1	2055.9
62.5°	13536.2	7314.1	1856.3	1866.1	2075.7	2472.5	2736.3	2433.1	2120.0	2001.7	1977.1
65°	11416.1	6037.2	1718.2	1760.1	1935.1	2312.3	2615.5	2334.5	2023.9	1940.1	1917.9
67.5°	7930.4	4358.4	1604.8	1649.2	1802.0	2149.6	2475.0	2228.5	1915.4	1871.1	1836.5
70°	4390.4	2682.1	1471.7	1523.5	1664.0	1967.2	2317.2	2068.3	1757.7	1737.9	1688.6
72.5°	2307.4	1708.4	1321.3	1378.0	1476.6	1733.0	2075.7	1893.2	1602.4	1518.5	1454.4
74°	1802.0	1400.2	1220.3	1279.4	1346.0	1595.0	1932.7	1767.5	1491.4	1392.8	1343.5
75°	1570.3	1247.4	1134.0	1210.4	1269.6	1501.3	1821.7	1678.8	1429.8	1336.1	1291.7
77.5°	1109.3	934.3	926.9	1018.1	1050.2	1316.4	1641.8	1528.4	1274.5	1175.9	1134.0
80°	779.0	700.1	734.6	791.3	835.7	1163.6	1523.5	1321.3	1045.2	929.4	914.6
82.5°	507.8	458.5	525.1	576.8	591.6	857.9	1230.1	1003.3	761.7	618.8	574.4
85°	234.2	229.3	300.7	293.4	290.9	419.1	729.7	586.7	438.8	327.9	308.1
87.5°	59.2	56.7	74.0	61.6	74.0	64.1	66.6	17.3	2.5	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)