

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: P652585

Luminaire Tested: **GALN-SA8B-840-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652585  
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-SA8B-840-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 38557.3 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

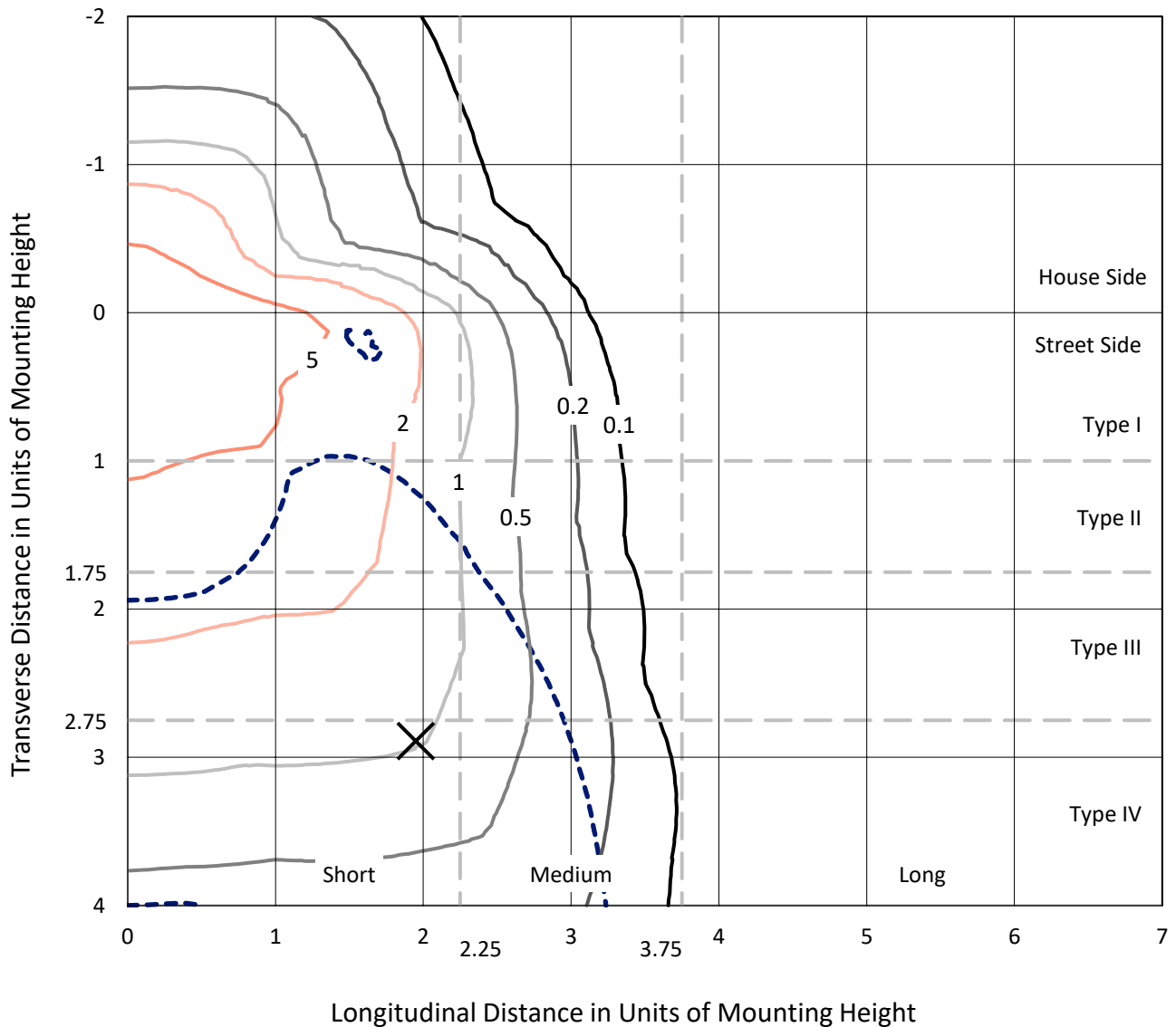
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

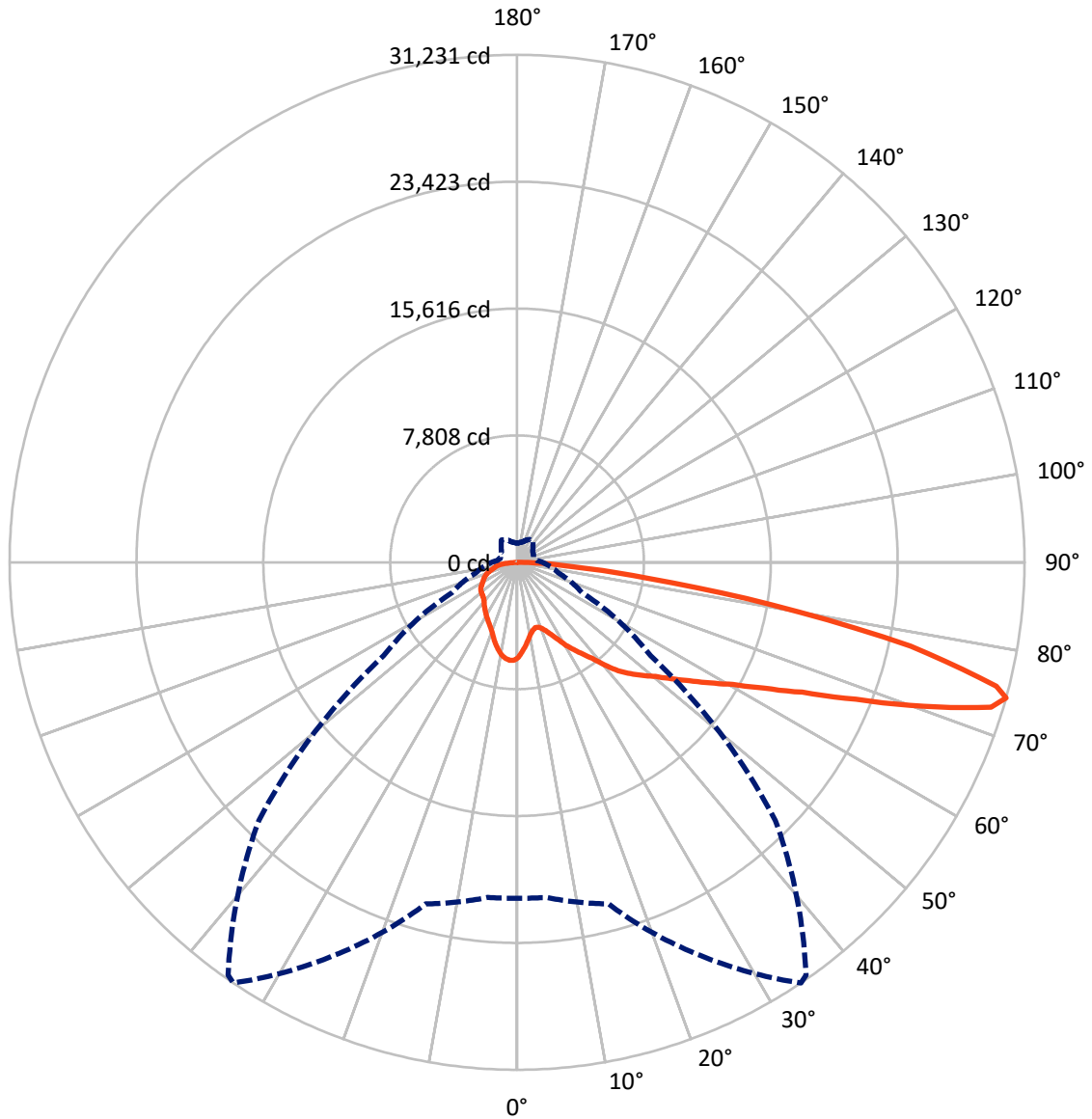
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	8205.3	0.0	8205.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	30352.0	0.0	30352.0
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	38557.3	0.0	38557.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.4	1.4
10°-20°	1465.6	3.8
20°-30°	2416.4	6.3
30°-40°	3619.5	9.4
40°-50°	5261.8	13.6
50°-60°	7349.5	19.1
60°-70°	9201.1	23.9
70°-80°	7608.6	19.7
80°-90°	1099.4	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°	38557.3	100.0
0°-180°	38557.3	100.0

**Coefficient of Utilization**

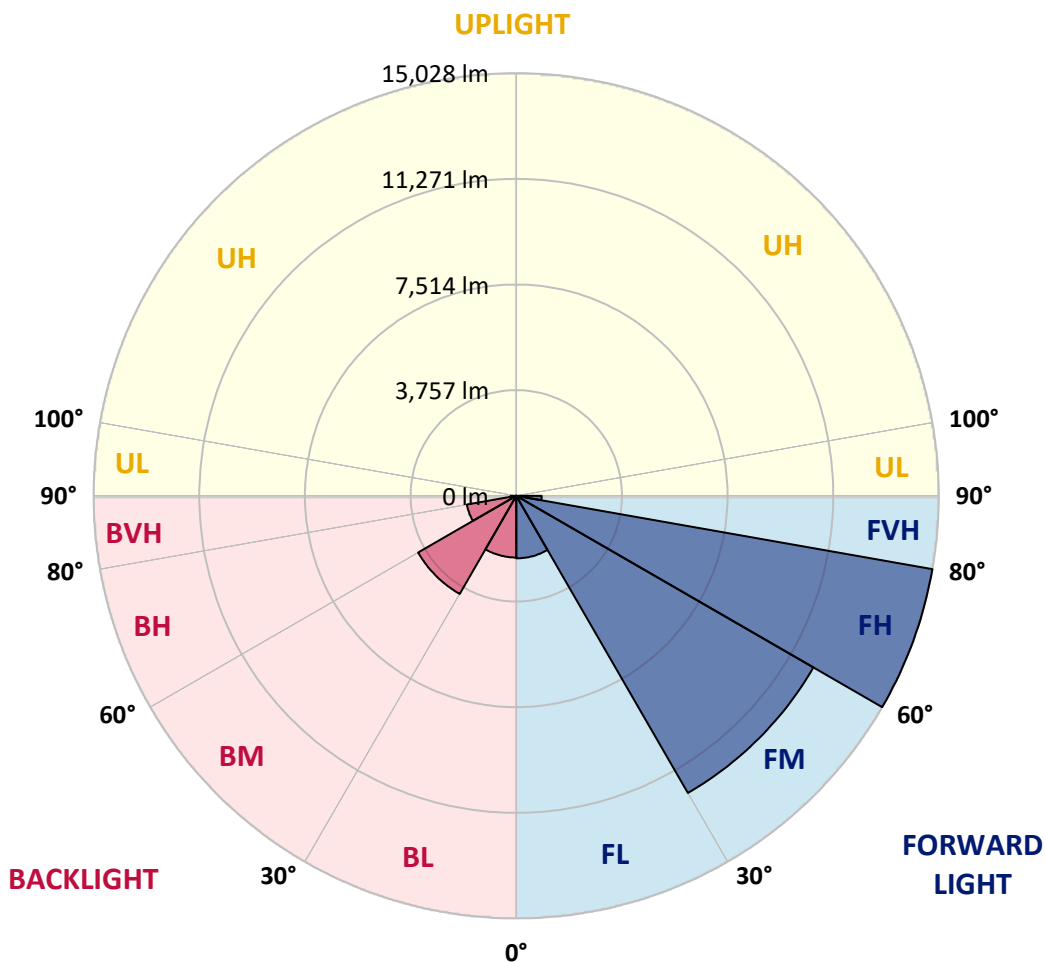


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.7	5.8			
FM (30°-60°)	12201.1	31.6			
FH (60°-80°)	15027.6	39.0			G5
FVH (80°-90°)	900.7	2.3			G5
BL (0°-30°)	2194.8	5.7	B3/2500		
BM (30°-60°)	4029.6	10.5	B3/5000		
BH (60°-80°)	1782.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	198.7	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9
2.5°	5440.5	5468.3	5483.2	5536.6	5549.4	5566.5	5611.4	5671.2	5748.1	5816.4	5876.2
5°	4987.6	5030.4	5056.0	5103.0	5194.9	5203.4	5323.0	5459.8	5615.7	5760.9	5880.5
7.5°	4558.3	4605.3	4626.7	4712.1	4833.9	4853.1	5028.3	5244.0	5504.6	5724.6	5908.3
10°	4235.8	4259.2	4306.3	4370.3	4515.6	4528.4	4756.9	5045.3	5382.8	5707.5	5955.3
12.5°	4060.6	4073.5	4084.1	4152.4	4295.6	4314.8	4554.0	4880.8	5286.7	5720.3	6032.2
15°	4086.3	4090.5	4043.5	4056.3	4171.7	4199.4	4436.5	4771.9	5226.9	5752.4	6147.5
17.5°	4302.0	4287.1	4171.7	4111.9	4193.1	4205.8	4413.1	4729.2	5199.1	5812.2	6267.1
20°	4641.6	4620.3	4421.6	4289.2	4336.2	4346.9	4489.9	4761.2	5226.9	5910.5	6453.0
22.5°	5064.6	5056.0	4754.8	4594.6	4592.5	4592.5	4667.3	4876.6	5310.2	6045.0	6647.3
25°	5656.2	5611.4	5218.3	5011.2	4953.5	4949.2	4940.7	5066.7	5417.0	6188.2	6878.0
27.5°	6262.9	6186.0	5835.7	5517.4	5393.5	5378.5	5323.0	5335.8	5553.7	6350.5	7140.8
30°	6807.6	6758.4	6429.5	6077.1	5929.6	5895.5	5741.7	5671.2	5782.3	6643.1	7559.5
32.5°	7224.1	7194.2	6937.9	6617.5	6399.6	6393.2	6168.9	6111.2	6139.0	6997.7	8037.9
35°	7561.6	7572.3	7442.0	7164.3	6914.4	6878.0	6728.5	6655.9	6574.8	7510.3	8640.3
37.5°	8023.0	8046.5	8037.9	7798.7	7493.2	7501.8	7467.6	7348.0	7132.3	8082.8	9308.9
40°	8531.4	8548.4	8546.3	8454.5	8294.3	8302.8	8290.0	8153.3	7830.7	8811.2	10052.2
42.5°	9234.1	9152.9	8941.5	9033.3	9127.3	9167.9	9255.5	9125.2	8683.0	9588.7	10750.8
45°	10020.2	9866.4	9387.9	9430.6	9778.8	9855.7	10338.5	10159.0	9607.9	10481.6	11573.1
47.5°	10515.8	10364.1	9960.4	9951.8	10413.3	10487.9	11342.4	11276.2	10449.5	11444.9	12577.1
50°	10957.9	10936.5	10481.6	10590.5	11041.2	11152.3	12436.0	12374.1	11289.0	12581.3	13670.7
52.5°	11613.7	11440.6	11077.6	11301.8	11897.8	12043.0	13521.2	13339.6	12060.1	13585.3	14732.3
55°	11908.5	11867.9	11846.5	12040.8	12859.0	12963.7	14576.4	14159.8	12718.0	14435.4	15539.7
57.5°	12696.7	12621.9	12833.3	12965.8	13991.1	14151.3	15678.6	15016.4	13294.8	15110.4	15932.7
60°	13717.7	13677.1	13871.5	14110.7	15255.7	15499.1	16934.5	15747.0	13758.3	15450.0	15717.0
62.5°	15242.8	15238.6	15202.3	15714.9	17047.7	17272.0	18376.4	16458.2	13830.9	15195.9	14602.0
65°	17430.1	17353.2	17037.1	17596.7	19277.8	19540.6	19878.0	16855.6	13393.0	13890.7	12295.1
67.5°	19717.8	19713.5	19457.2	20183.5	22479.8	22751.0	21755.7	16767.9	12177.6	11252.7	8732.2
70°	21614.6	21522.8	21849.6	23784.8	26570.3	26884.2	23398.2	15736.3	9699.8	7431.3	5188.5
72.5°	22069.6	22073.9	22753.2	26561.7	30498.4	30547.6	23989.9	12754.4	6491.4	4099.0	2595.3
74°	20668.4	20704.7	21757.8	26700.6	31231.1	31008.9	22477.6	10024.5	4389.6	2676.5	1871.1
75°	18865.6	18637.0	20160.0	25775.6	30470.7	30231.4	20706.8	8044.3	3349.3	2138.2	1638.4
77.5°	10086.4	10319.2	12668.9	19235.1	24754.7	24479.1	14040.2	3857.7	1809.2	1488.8	1179.1
80°	3590.7	3960.3	5566.5	10065.1	15870.8	15956.3	6700.8	1768.6	1273.1	1097.9	833.1
82.5°	1465.4	1505.9	2390.2	4466.5	8059.3	8136.2	2736.3	1050.9	910.0	756.1	497.7
85°	572.5	589.5	1057.3	2007.9	3439.0	3663.3	946.3	555.4	559.7	433.6	254.2
87.5°	192.3	217.9	433.6	668.6	1168.4	1144.9	275.5	164.5	200.7	188.0	79.1
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°	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9	5886.9
2.5°	5906.2	5946.7	5974.5	6004.4	6032.2	6040.7	6034.3	6053.5	6055.7	6057.8	6060.0
5°	5940.3	5995.9	6049.3	6079.2	6092.0	6081.4	6045.0	6025.8	6008.7	5995.9	6000.1
7.5°	5987.3	6066.4	6115.5	6128.3	6094.1	6045.0	5955.3	5884.8	5840.0	5810.0	5807.9
10°	6060.0	6136.9	6177.5	6141.2	6047.1	5927.5	5786.6	5654.1	5553.7	5523.8	5521.7
12.5°	6151.8	6239.4	6237.3	6130.5	5966.0	5752.4	5523.8	5370.0	5233.3	5164.9	5192.8
15°	6271.4	6337.6	6275.7	6083.5	5822.8	5530.2	5248.3	5038.9	4885.1	4812.5	4816.7
17.5°	6410.3	6468.0	6303.5	6000.1	5622.1	5246.2	4919.3	4720.7	4598.9	4545.5	4541.2
20°	6583.3	6600.4	6303.5	5854.9	5363.6	4915.1	4603.2	4464.4	4396.0	4368.2	4376.7
22.5°	6769.1	6735.0	6269.3	5649.8	5024.0	4569.0	4359.7	4297.8	4263.5	4259.2	4263.5
25°	6978.4	6882.3	6198.8	5372.1	4669.4	4269.9	4148.2	4158.9	4165.3	4165.3	4180.3
27.5°	7234.8	7042.5	6081.4	5021.9	4255.0	3992.2	3958.1	4032.8	4067.0	4073.5	4084.1
30°	7572.3	7217.7	5886.9	4584.0	3902.6	3742.4	3802.2	3902.6	3941.0	3964.5	3960.3
32.5°	7973.9	7410.0	5624.2	4146.0	3618.5	3567.2	3639.8	3742.4	3785.1	3797.9	3780.8
35°	8445.9	7627.8	5278.2	3736.0	3370.6	3400.6	3486.0	3518.1	3556.5	3556.5	3565.1
37.5°	8954.3	7803.0	4855.3	3360.0	3178.5	3287.4	3349.3	3319.4	3302.4	3281.0	3291.7
40°	9471.3	7933.2	4306.3	2988.3	2986.2	3169.9	3187.0	3101.5	3033.2	3011.8	3001.1
42.5°	9921.9	8014.5	3810.7	2699.9	2804.7	3054.5	3067.4	2930.6	2821.7	2757.6	2736.3
45°	10453.8	8108.4	3325.8	2460.8	2635.9	2962.7	2994.7	2811.0	2650.8	2516.3	2482.0
47.5°	11182.2	8322.0	2943.5	2274.9	2514.1	2905.0	2949.9	2712.8	2501.3	2326.1	2298.4
50°	12004.6	8614.7	2646.5	2148.8	2420.1	2853.8	2909.3	2612.4	2362.5	2168.1	2146.7
52.5°	12758.6	8772.7	2390.2	2035.6	2328.3	2759.7	2855.9	2539.7	2225.8	2010.0	1990.8
55°	13170.8	8516.4	2138.2	1924.5	2202.2	2638.0	2781.1	2439.4	2093.3	1926.7	1899.0
57.5°	13226.4	7986.6	1909.7	1805.0	2069.9	2488.5	2642.3	2317.6	2007.9	1869.0	1845.6
60°	12797.1	7196.4	1732.3	1706.7	1935.2	2319.7	2486.3	2210.8	1920.3	1805.0	1781.5
62.5°	11729.0	6337.6	1608.4	1617.0	1798.6	2142.4	2371.0	2108.3	1837.0	1734.5	1713.1
65°	9892.0	5231.2	1488.8	1525.2	1676.8	2003.6	2266.3	2022.9	1753.7	1681.1	1661.8
67.5°	6871.6	3776.5	1390.6	1429.0	1561.5	1862.6	2144.5	1931.0	1659.7	1621.3	1591.3
70°	3804.3	2324.0	1275.2	1320.1	1441.8	1704.5	2007.9	1792.2	1523.0	1505.9	1463.2
72.5°	1999.3	1480.2	1144.9	1194.1	1279.5	1501.6	1798.6	1640.5	1388.4	1315.8	1260.2
74°	1561.5	1213.3	1057.3	1108.6	1166.3	1382.0	1674.7	1531.5	1292.3	1206.8	1164.1
75°	1360.7	1080.9	982.5	1048.8	1100.0	1300.9	1578.6	1454.7	1238.9	1157.7	1119.3
77.5°	961.2	809.5	803.2	882.2	910.0	1140.6	1422.6	1324.3	1104.3	1018.9	982.5
80°	675.0	606.6	636.6	685.7	724.1	1008.2	1320.1	1144.9	905.7	805.3	792.5
82.5°	440.0	397.3	455.0	499.8	512.7	743.4	1065.9	869.3	660.0	536.1	497.7
85°	202.9	198.6	260.6	254.2	252.0	363.1	632.3	508.4	380.2	284.1	267.0
87.5°	51.3	49.1	64.1	53.4	64.1	55.5	57.7	15.0	2.1	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)