

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: P455378

Luminaire Tested: **GALN-SA6C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455378
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-SA6C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 41598 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

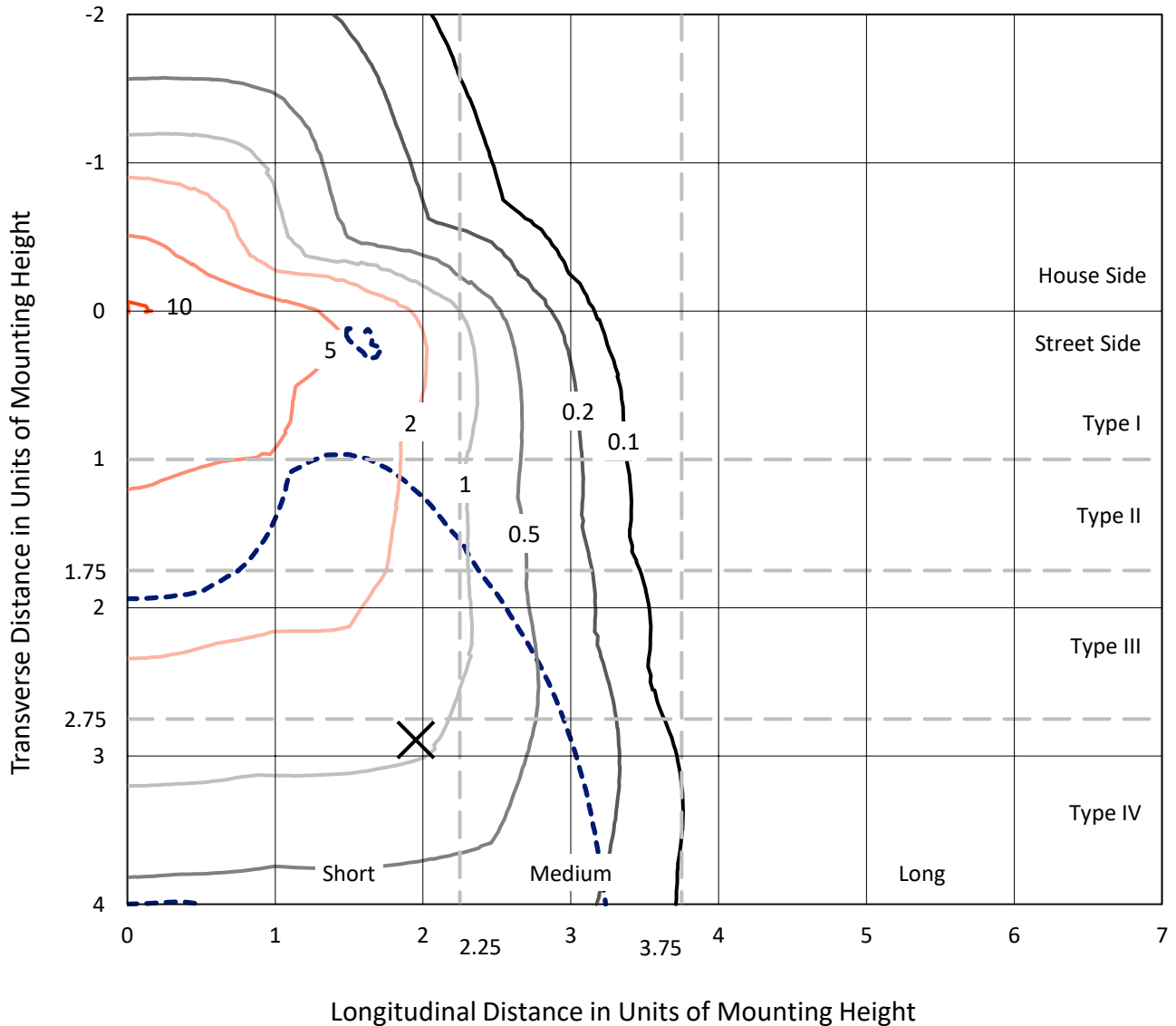
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

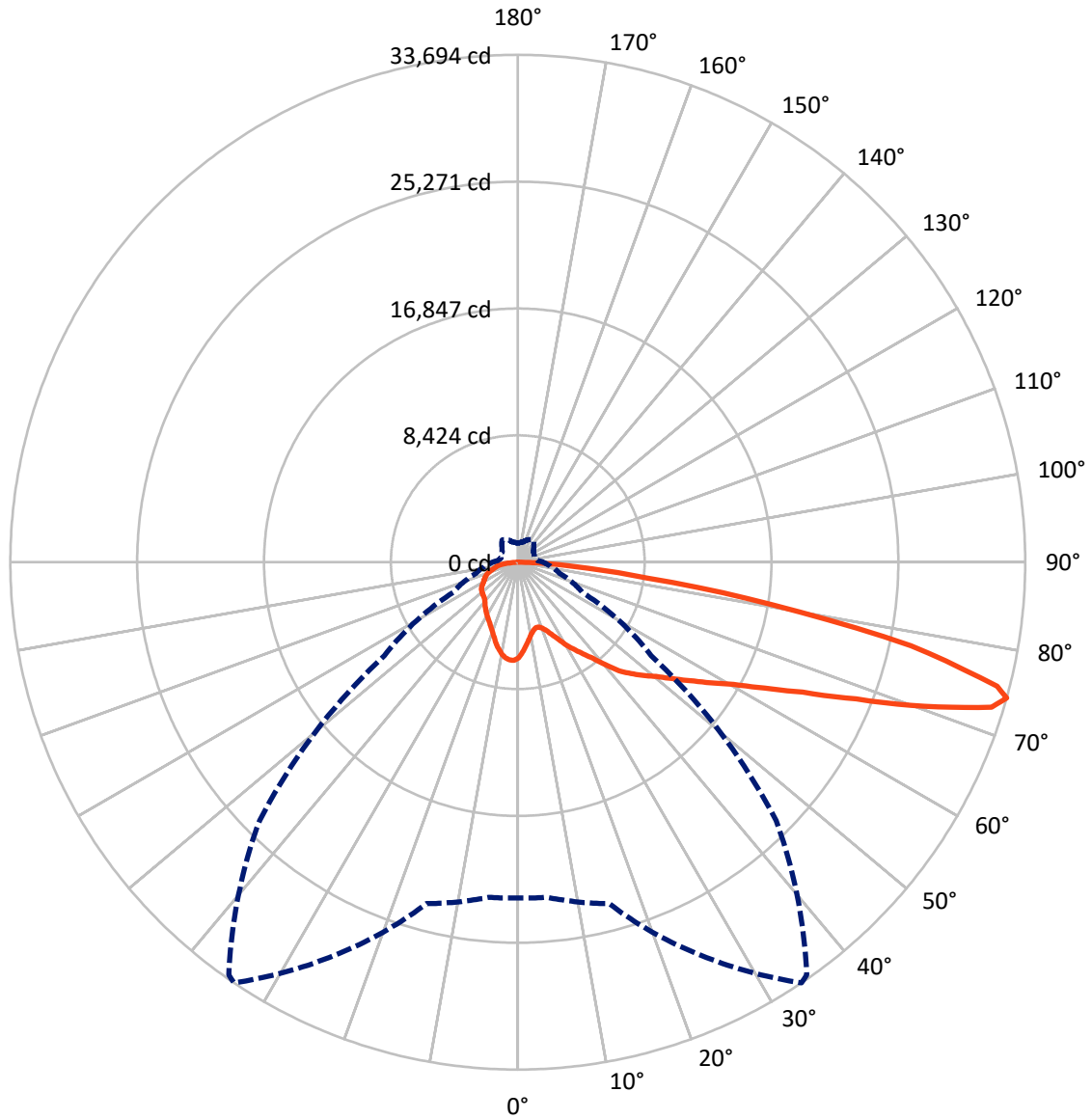
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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
House Side	Lumens	8852.3	0.0	8852.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	32745.6	0.0	32745.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	41598.0	0.0	41598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.6	1.4
10°-20°	1581.2	3.8
20°-30°	2607.0	6.3
30°-40°	3904.9	9.4
40°-50°	5676.7	13.6
50°-60°	7929.1	19.1
60°-70°	9926.7	23.9
70°-80°	8208.6	19.7
80°-90°	1186.1	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°	41598.0	100.0
0°-180°	41598.0	100.0

Coefficient of Utilization



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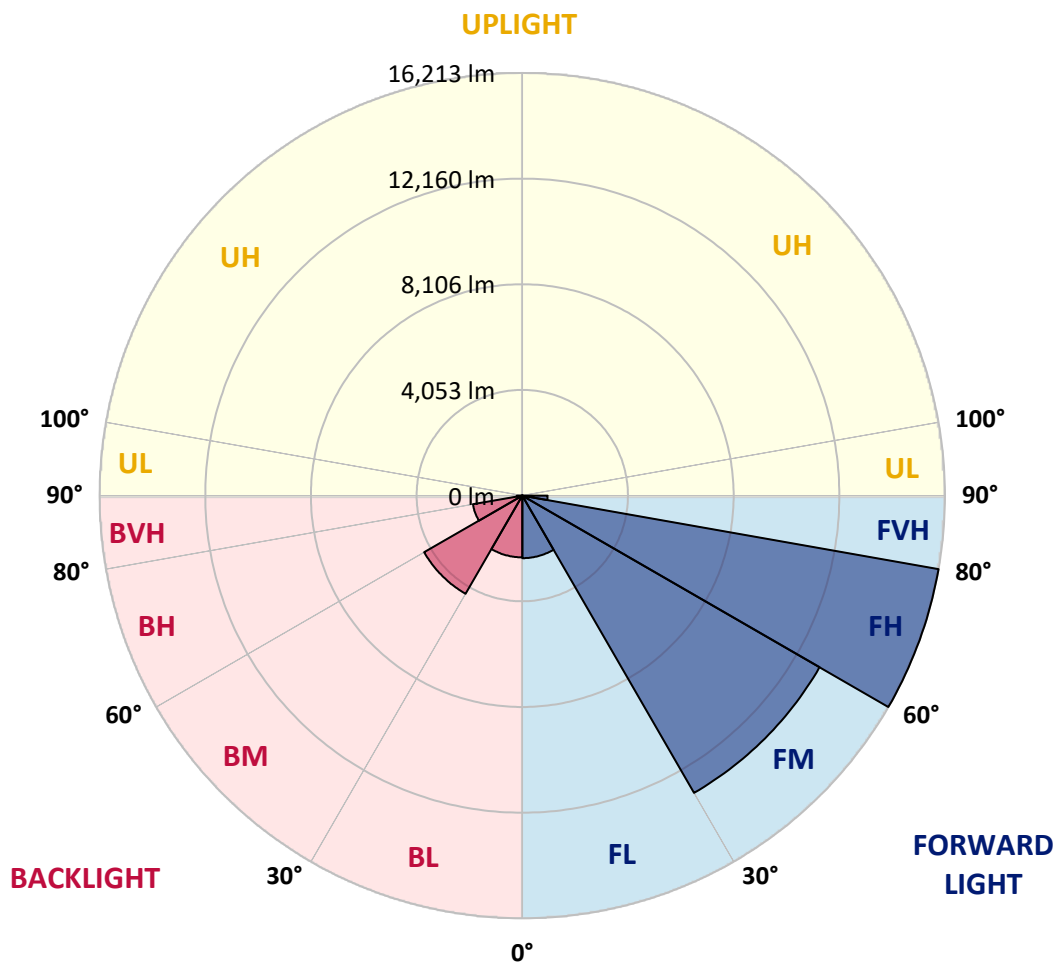
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2397.9	5.8			
FM	(30°-60°)	13163.3	31.6			
FH	(60°-80°)	16212.7	39.0			G5
FVH	(80°-90°)	971.7	2.3			G5
BL	(0°-30°)	2367.9	5.7	B3/2500		
BM	(30°-60°)	4347.4	10.5	B3/5000		
BH	(60°-80°)	1922.7	4.6	B3/2500		G3/2500
BVH	(80°-90°)	214.4	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°	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2
2.5°	5869.6	5899.5	5915.6	5973.3	5987.1	6005.5	6053.9	6118.4	6201.4	6275.1	6339.7
5°	5381.0	5427.1	5454.7	5505.4	5604.5	5613.8	5742.8	5890.3	6058.5	6215.2	6344.3
7.5°	4917.8	4968.5	4991.5	5083.7	5215.1	5235.8	5424.8	5657.5	5938.7	6176.1	6374.2
10°	4569.8	4595.2	4645.9	4715.0	4871.7	4885.5	5132.1	5443.2	5807.3	6157.6	6424.9
12.5°	4380.8	4394.7	4406.2	4479.9	4634.3	4655.1	4913.2	5265.8	5703.6	6171.4	6507.9
15°	4408.5	4413.1	4362.4	4376.2	4500.7	4530.6	4786.4	5148.2	5639.1	6206.0	6632.3
17.5°	4641.3	4625.1	4500.7	4436.2	4523.7	4537.6	4761.1	5102.2	5609.1	6270.5	6761.4
20°	5007.7	4984.6	4770.3	4627.4	4678.1	4689.7	4844.1	5136.7	5639.1	6376.5	6961.9
22.5°	5464.0	5454.7	5129.8	4957.0	4954.7	4954.7	5035.3	5261.2	5729.0	6521.7	7171.6
25°	6102.3	6053.9	5629.9	5406.3	5344.1	5339.5	5330.3	5466.3	5844.2	6676.1	7420.5
27.5°	6756.8	6673.8	6295.9	5952.5	5818.9	5802.7	5742.8	5756.6	5991.7	6851.3	7703.9
30°	7344.4	7291.4	6936.5	6556.3	6397.3	6360.4	6194.5	6118.4	6238.3	7167.0	8155.6
32.5°	7793.8	7761.5	7485.0	7139.3	6904.3	6897.4	6655.4	6593.2	6623.1	7549.5	8671.8
35°	8157.9	8169.4	8028.9	7729.3	7459.7	7420.5	7259.2	7180.8	7093.2	8102.6	9321.7
37.5°	8655.7	8681.0	8671.8	8413.7	8084.2	8093.4	8056.5	7927.5	7694.7	8720.2	10043.0
40°	9204.2	9222.6	9220.3	9121.2	8948.4	8957.6	8943.8	8796.3	8448.3	9506.0	10845.0
42.5°	9962.3	9874.8	9646.6	9745.7	9847.1	9890.9	9985.4	9844.8	9367.8	10344.9	11598.5
45°	10810.4	10644.5	10128.3	10174.4	10550.0	10632.9	11153.8	10960.2	10365.6	11308.2	12485.8
47.5°	11345.0	11181.4	10745.9	10736.6	11234.4	11315.1	12236.9	12165.4	11273.6	12347.5	13568.9
50°	11822.1	11799.0	11308.2	11425.7	11911.9	12031.8	13416.8	13349.9	12179.3	13573.5	14748.8
52.5°	12529.5	12342.9	11951.1	12193.1	12836.0	12992.8	14587.5	14391.6	13011.2	14656.6	15894.1
55°	12847.6	12803.8	12780.7	12990.4	13873.1	13986.0	15725.9	15276.5	13721.0	15573.8	16765.2
57.5°	13697.9	13617.3	13845.4	13988.3	15094.5	15267.3	16915.0	16200.6	14343.2	16302.0	17189.2
60°	14799.5	14755.7	14965.4	15223.5	16458.7	16721.4	18270.0	16988.7	14843.3	16668.4	16956.5
62.5°	16444.9	16440.3	16401.1	16954.2	18392.2	18634.2	19825.6	17756.1	14921.6	16394.2	15753.5
65°	18804.7	18721.7	18380.7	18984.4	20798.1	21081.5	21445.6	18184.8	14449.2	14986.1	13264.7
67.5°	21272.8	21268.2	20991.7	21775.2	24252.5	24545.2	23471.3	18090.3	13137.9	12140.1	9420.8
70°	23319.2	23220.1	23572.7	25660.6	28665.6	29004.4	25243.5	16977.2	10464.7	8017.3	5597.6
72.5°	23810.1	23814.7	24547.5	28656.4	32903.6	32956.6	25881.8	13760.1	7003.4	4422.3	2800.0
74°	22298.3	22337.5	23473.6	28806.2	33694.0	33454.4	24250.2	10815.0	4735.7	2887.5	2018.7
75°	20353.3	20106.7	21749.8	27808.4	32873.6	32615.5	22339.8	8678.7	3613.5	2306.8	1767.5
77.5°	10881.8	11133.0	13668.0	20752.0	26706.8	26409.5	15147.5	4161.9	1951.9	1606.2	1272.1
80°	3873.9	4272.5	6005.5	10858.8	17122.4	17214.6	7229.2	1908.1	1373.5	1184.5	898.8
82.5°	1580.9	1624.7	2578.7	4818.7	8694.9	8777.8	2952.1	1133.8	981.7	815.8	536.9
85°	617.6	636.0	1140.7	2166.2	3710.2	3952.2	1020.9	599.2	603.8	467.8	274.2
87.5°	207.4	235.1	467.8	721.3	1260.6	1235.2	297.3	177.4	216.6	202.8	85.3
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°	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2	6351.2
2.5°	6371.9	6415.7	6445.7	6477.9	6507.9	6517.1	6510.2	6530.9	6533.2	6535.6	6537.9
5°	6408.8	6468.7	6526.3	6558.6	6572.4	6560.9	6521.7	6501.0	6482.5	6468.7	6473.3
7.5°	6459.5	6544.8	6597.8	6611.6	6574.7	6521.7	6424.9	6348.9	6300.5	6268.2	6265.9
10°	6537.9	6620.8	6664.6	6625.4	6524.0	6395.0	6242.9	6100.0	5991.7	5959.4	5957.1
12.5°	6636.9	6731.4	6729.1	6613.9	6436.5	6206.0	5959.4	5793.5	5646.0	5572.3	5602.2
15°	6766.0	6837.4	6770.6	6563.2	6282.1	5966.3	5662.1	5436.3	5270.4	5192.0	5196.6
17.5°	6915.8	6978.0	6800.6	6473.3	6065.4	5659.8	5307.3	5092.9	4961.6	4904.0	4899.4
20°	7102.5	7120.9	6800.6	6316.6	5786.6	5302.6	4966.2	4816.4	4742.7	4712.7	4721.9
22.5°	7302.9	7266.1	6763.7	6095.4	5420.2	4929.3	4703.5	4636.6	4599.8	4595.2	4599.8
25°	7528.8	7425.1	6687.6	5795.8	5037.6	4606.7	4475.3	4486.9	4493.8	4493.8	4509.9
27.5°	7805.3	7597.9	6560.9	5417.9	4590.6	4307.1	4270.2	4350.9	4387.8	4394.7	4406.2
30°	8169.4	7786.9	6351.2	4945.4	4210.3	4037.5	4102.0	4210.3	4251.8	4277.1	4272.5
32.5°	8602.7	7994.3	6067.7	4473.0	3903.8	3848.5	3926.9	4037.5	4083.6	4097.4	4079.0
35°	9112.0	8229.4	5694.4	4030.6	3636.5	3668.8	3760.9	3795.5	3837.0	3837.0	3846.2
37.5°	9660.4	8418.3	5238.1	3625.0	3429.1	3546.6	3613.5	3581.2	3562.8	3539.7	3551.2
40°	10218.1	8558.9	4645.9	3224.0	3221.7	3419.9	3438.3	3346.1	3272.4	3249.3	3237.8
42.5°	10704.4	8646.5	4111.2	2912.9	3025.8	3295.4	3309.3	3161.8	3044.2	2975.1	2952.1
45°	11278.2	8747.9	3588.1	2654.8	2843.7	3196.3	3230.9	3032.7	2859.9	2714.7	2677.8
47.5°	12064.0	8978.3	3175.6	2454.3	2712.4	3134.1	3182.5	2926.7	2698.6	2509.6	2479.6
50°	12951.3	9294.0	2855.3	2318.3	2611.0	3078.8	3138.7	2818.4	2548.8	2339.1	2316.0
52.5°	13764.8	9464.6	2578.7	2196.2	2511.9	2977.4	3081.1	2740.0	2401.3	2168.5	2147.8
55°	14209.5	9188.0	2306.8	2076.4	2375.9	2846.1	3000.5	2631.7	2258.4	2078.7	2048.7
57.5°	14269.4	8616.5	2060.2	1947.3	2233.1	2684.7	2850.7	2500.4	2166.2	2016.4	1991.1
60°	13806.2	7763.8	1868.9	1841.3	2087.9	2502.7	2682.4	2385.2	2071.7	1947.3	1921.9
62.5°	12654.0	6837.4	1735.3	1744.5	1940.4	2311.4	2558.0	2274.5	1981.9	1871.3	1848.2
65°	10672.1	5643.7	1606.2	1645.4	1809.0	2161.6	2445.1	2182.4	1892.0	1813.6	1792.9
67.5°	7413.6	4074.3	1500.2	1541.7	1684.6	2009.5	2313.7	2083.3	1790.6	1749.1	1716.8
70°	4104.3	2507.3	1375.8	1424.2	1555.5	1839.0	2166.2	1933.5	1643.1	1624.7	1578.6
72.5°	2157.0	1597.0	1235.2	1288.2	1380.4	1620.1	1940.4	1769.9	1497.9	1419.6	1359.7
74°	1684.6	1309.0	1140.7	1196.0	1258.3	1491.0	1806.7	1652.3	1394.2	1302.0	1256.0
75°	1468.0	1166.1	1060.1	1131.5	1186.8	1403.4	1703.0	1569.4	1336.6	1249.0	1207.6
77.5°	1037.0	873.4	866.5	951.8	981.7	1230.6	1534.8	1428.8	1191.4	1099.2	1060.1
80°	728.2	654.5	686.7	739.7	781.2	1087.7	1424.2	1235.2	977.1	868.8	855.0
82.5°	474.7	428.6	490.9	539.3	553.1	802.0	1149.9	937.9	712.1	578.4	536.9
85°	218.9	214.3	281.1	274.2	271.9	391.8	682.1	548.5	410.2	306.5	288.1
87.5°	55.3	53.0	69.1	57.6	69.1	59.9	62.2	16.1	2.3	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)