

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: P456770

Luminaire Tested: **GALN-SA8A-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456770
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-SA8A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 36847 lumens
Efficiency: N/A
Efficacy: 151.0 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

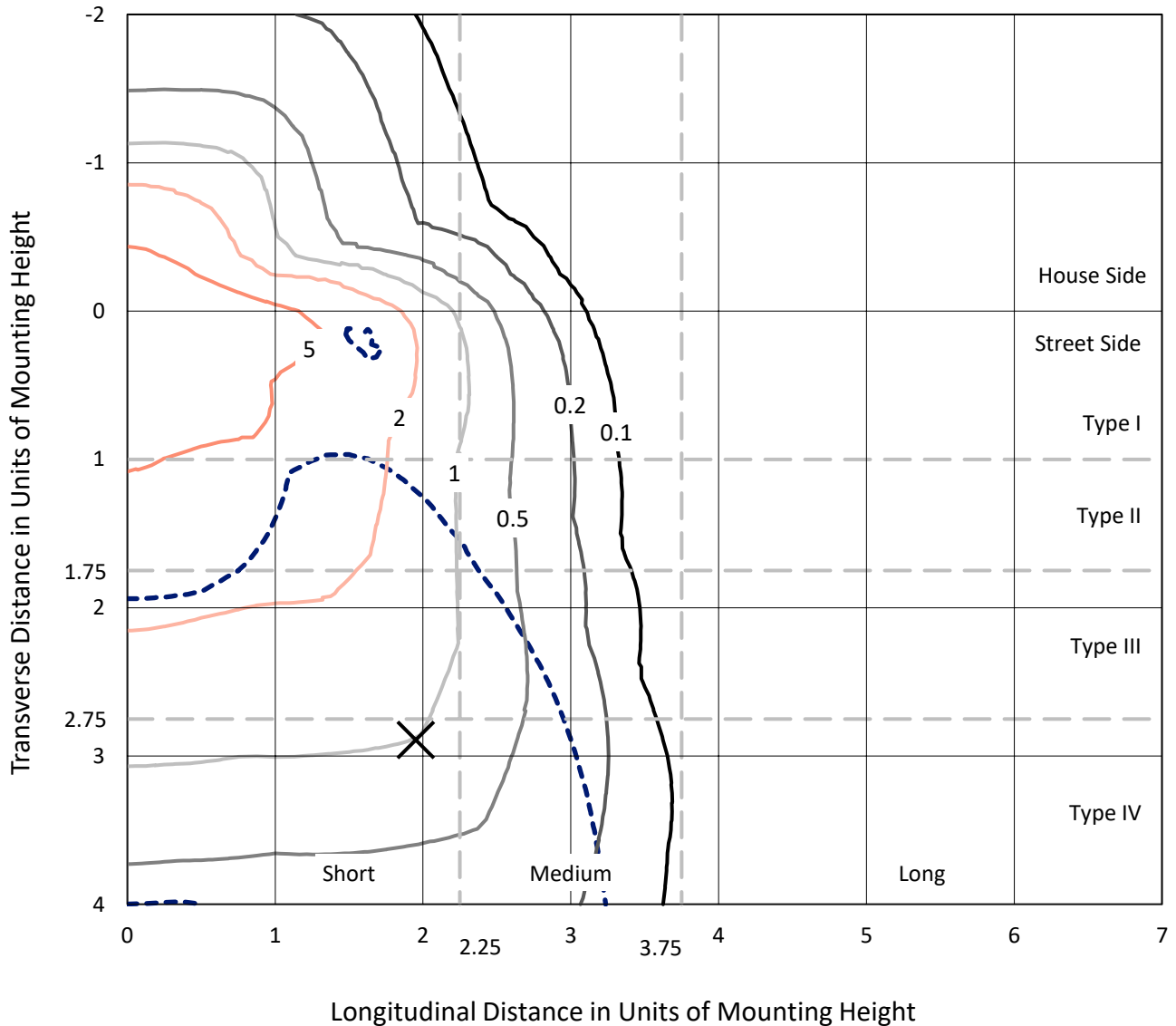
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

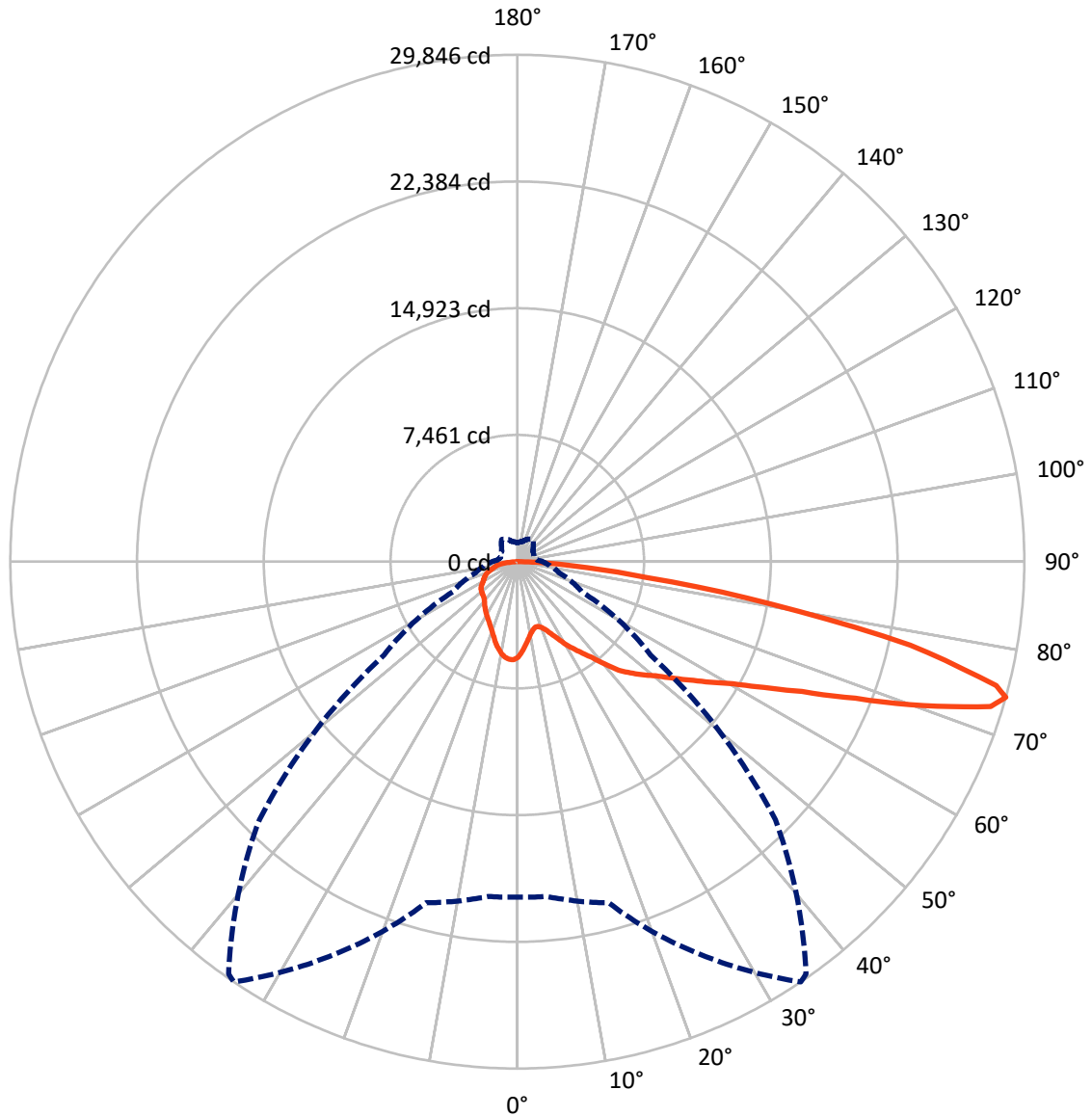
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	7841.3	0.0	7841.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	29005.7	0.0	29005.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	36847.0	0.0	36847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.6	1.4
10°-20°	1400.6	3.8
20°-30°	2309.2	6.3
30°-40°	3459.0	9.4
40°-50°	5028.4	13.6
50°-60°	7023.5	19.1
60°-70°	8793.0	23.9
70°-80°	7271.1	19.7
80°-90°	1050.6	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°	36847.0	100.0
0°-180°	36847.0	100.0

Coefficient of Utilization



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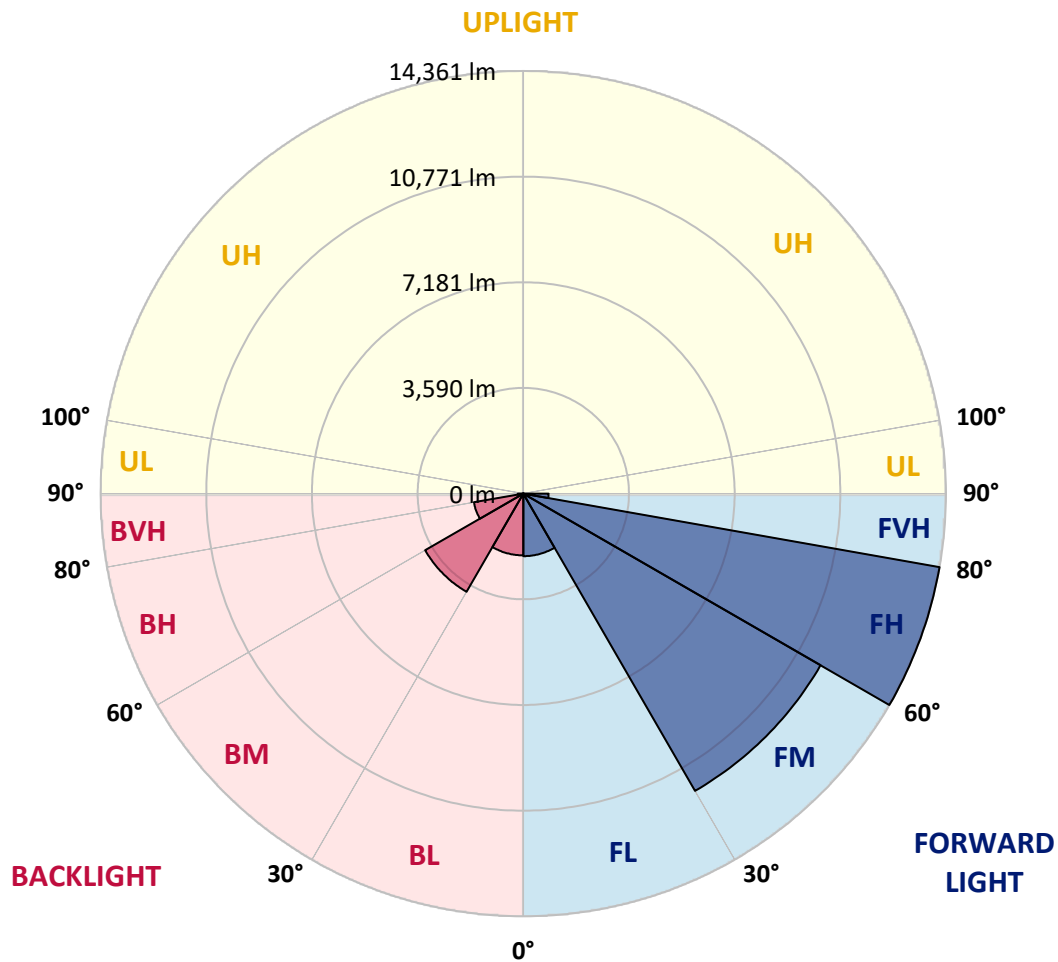
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.1	5.8			
FM (30°-60°)	11659.9	31.6			
FH (60°-80°)	14361.0	39.0			G5
FVH (80°-90°)	860.7	2.3			G5
BL (0°-30°)	2097.4	5.7	B3/2500		
BM (30°-60°)	3850.9	10.5	B3/5000		
BH (60°-80°)	1703.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	189.9	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°	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8
2.5°	5199.2	5225.7	5240.0	5291.0	5303.3	5319.6	5362.5	5419.6	5493.1	5558.4	5615.6
5°	4766.4	4807.2	4831.7	4876.7	4964.4	4972.6	5086.9	5217.5	5366.6	5505.4	5619.7
7.5°	4356.1	4401.0	4421.4	4503.1	4619.4	4637.8	4805.2	5011.4	5260.4	5470.7	5646.2
10°	4047.9	4070.3	4115.3	4176.5	4315.3	4327.5	4546.0	4821.5	5144.1	5454.3	5691.1
12.5°	3880.5	3892.7	3903.0	3968.3	4105.0	4123.4	4352.0	4664.4	5052.2	5466.6	5764.6
15°	3905.0	3909.1	3864.2	3876.4	3986.6	4013.2	4239.8	4560.3	4995.0	5497.2	5874.8
17.5°	4111.2	4096.9	3986.6	3929.5	4007.1	4019.3	4217.3	4519.4	4968.5	5554.4	5989.2
20°	4435.7	4415.3	4225.5	4098.9	4143.8	4154.0	4290.8	4550.0	4995.0	5648.3	6166.8
22.5°	4839.9	4831.7	4543.9	4390.8	4388.8	4388.8	4460.2	4660.3	5074.7	5776.9	6352.5
25°	5405.3	5362.5	4986.9	4788.9	4733.8	4729.7	4721.5	4842.0	5176.7	5913.6	6573.0
27.5°	5985.1	5911.6	5576.8	5272.7	5154.3	5140.0	5086.9	5099.2	5307.4	6068.8	6824.0
30°	6505.6	6458.7	6144.3	5807.5	5666.6	5634.0	5487.0	5419.6	5525.8	6348.4	7224.1
32.5°	6903.7	6875.1	6630.1	6323.9	6115.7	6109.6	5895.3	5840.1	5866.7	6687.3	7681.4
35°	7226.2	7236.4	7111.9	6846.5	6607.7	6573.0	6430.1	6360.7	6283.1	7177.2	8257.0
37.5°	7667.1	7689.6	7681.4	7452.8	7160.9	7169.0	7136.4	7022.1	6815.9	7724.3	8896.0
40°	8152.9	8169.3	8167.2	8079.4	7926.3	7934.5	7922.3	7791.6	7483.4	8420.3	9606.3
42.5°	8824.5	8746.9	8544.9	8632.6	8722.5	8761.2	8844.9	8720.4	8297.9	9163.4	10273.8
45°	9575.7	9428.7	8971.5	9012.3	9345.0	9418.5	9879.9	9708.4	9181.7	10016.6	11059.7
47.5°	10049.3	9904.4	9518.6	9510.4	9951.3	10022.8	10839.3	10776.0	9986.0	10937.3	12019.1
50°	10471.8	10451.4	10016.6	10120.7	10551.5	10657.6	11884.4	11825.2	10788.2	12023.2	13064.3
52.5°	11098.5	10933.2	10586.2	10800.5	11370.0	11508.8	12921.4	12747.9	11525.1	12982.6	14078.8
55°	11380.2	11341.4	11321.0	11506.8	12288.6	12388.6	13929.8	13531.7	12153.9	13795.1	14850.4
57.5°	12133.5	12062.0	12264.1	12390.7	13370.5	13523.6	14983.1	14350.3	12705.0	14440.1	15226.0
60°	13109.2	13070.4	13256.2	13484.8	14578.9	14811.6	16183.4	15048.4	13148.0	14764.7	15019.8
62.5°	14566.7	14562.6	14527.9	15017.8	16291.6	16505.9	17561.3	15728.2	13217.4	14521.8	13954.3
65°	16657.0	16583.5	16281.4	16816.2	18422.7	18673.8	18996.3	16107.9	12798.9	13274.5	11749.7
67.5°	18843.2	18839.1	18594.2	19288.2	21482.6	21741.8	20790.6	16024.2	11637.4	10753.5	8344.8
70°	20655.9	20568.1	20880.4	22729.8	25391.7	25691.7	22360.3	15038.2	9269.5	7101.7	4958.3
72.5°	21090.7	21094.7	21743.9	25383.5	29145.6	29192.6	22925.8	12188.6	6203.5	3917.2	2480.2
74°	19751.6	19786.3	20792.6	25516.2	29845.8	29633.5	21480.5	9579.8	4194.9	2557.7	1788.2
75°	18028.7	17810.3	19265.7	24632.3	29119.1	28890.4	19788.3	7687.5	3200.8	2043.3	1565.7
77.5°	9639.0	9861.5	12106.9	18381.9	23656.6	23393.2	13417.4	3686.6	1729.0	1422.8	1126.8
80°	3431.4	3784.6	5319.6	9618.6	15166.8	15248.5	6403.5	1690.2	1216.6	1049.2	796.1
82.5°	1400.3	1439.1	2284.2	4268.3	7701.8	7775.3	2614.9	1004.3	869.6	722.6	475.6
85°	547.1	563.4	1010.4	1918.8	3286.5	3500.8	904.3	530.7	534.8	414.4	242.9
87.5°	183.7	208.2	414.4	638.9	1116.6	1094.1	263.3	157.2	191.9	179.6	75.5
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°	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8	5625.8
2.5°	5644.2	5683.0	5709.5	5738.1	5764.6	5772.8	5766.7	5785.0	5787.1	5789.1	5791.2
5°	5676.8	5729.9	5780.9	5809.5	5821.8	5811.6	5776.9	5758.5	5742.2	5729.9	5734.0
7.5°	5721.7	5797.3	5844.2	5856.5	5823.8	5776.9	5691.1	5623.8	5580.9	5552.3	5550.3
10°	5791.2	5864.6	5903.4	5868.7	5778.9	5664.6	5529.9	5403.3	5307.4	5278.8	5276.7
12.5°	5878.9	5962.6	5960.6	5858.5	5701.3	5497.2	5278.8	5131.8	5001.2	4935.9	4962.4
15°	5993.2	6056.5	5997.3	5813.6	5564.6	5284.9	5015.5	4815.4	4668.4	4599.0	4603.1
17.5°	6125.9	6181.0	6023.9	5734.0	5372.7	5013.4	4701.1	4511.3	4394.9	4343.9	4339.8
20°	6291.3	6307.6	6023.9	5595.2	5125.7	4697.0	4399.0	4266.3	4201.0	4174.4	4182.6
22.5°	6468.9	6436.2	5991.2	5399.2	4801.1	4366.3	4166.3	4107.1	4074.4	4070.3	4074.4
25°	6668.9	6577.1	5923.8	5133.9	4462.3	4080.5	3964.2	3974.4	3980.5	3980.5	3994.8
27.5°	6913.9	6730.1	5811.6	4799.1	4066.3	3815.2	3782.5	3854.0	3886.6	3892.7	3903.0
30°	7236.4	6897.5	5625.8	4380.6	3729.4	3576.3	3633.5	3729.4	3766.2	3788.6	3784.6
32.5°	7620.2	7081.3	5374.7	3962.2	3458.0	3409.0	3478.4	3576.3	3617.2	3629.4	3613.1
35°	8071.3	7289.5	5044.0	3570.2	3221.2	3249.7	3331.4	3362.0	3398.8	3398.8	3406.9
37.5°	8557.1	7456.8	4639.9	3211.0	3037.4	3141.6	3200.8	3172.2	3155.8	3135.4	3145.6
40°	9051.1	7581.4	4115.3	2855.8	2853.7	3029.3	3045.6	2964.0	2898.6	2878.2	2868.0
42.5°	9481.8	7658.9	3641.7	2580.2	2680.2	2919.1	2931.3	2800.7	2696.6	2635.3	2614.9
45°	9990.1	7748.8	3178.3	2351.6	2519.0	2831.3	2861.9	2686.3	2533.2	2404.6	2372.0
47.5°	10686.2	7952.9	2812.9	2174.0	2402.6	2776.2	2819.0	2592.4	2390.4	2223.0	2196.4
50°	11472.1	8232.5	2529.2	2053.5	2312.8	2727.2	2780.2	2496.5	2257.7	2071.9	2051.5
52.5°	12192.7	8383.6	2284.2	1945.4	2225.0	2637.4	2729.2	2427.1	2127.0	1920.9	1902.5
55°	12586.6	8138.6	2043.3	1839.2	2104.6	2521.0	2657.8	2331.2	2000.5	1841.2	1814.7
57.5°	12639.7	7632.4	1824.9	1724.9	1978.0	2378.1	2525.1	2214.8	1918.8	1786.1	1763.7
60°	12229.4	6877.1	1655.5	1631.0	1849.4	2216.8	2376.1	2112.7	1835.1	1724.9	1702.4
62.5°	11208.7	6056.5	1537.1	1545.3	1718.8	2047.4	2265.8	2014.8	1755.5	1657.5	1637.1
65°	9453.2	4999.1	1422.8	1457.5	1602.4	1914.7	2165.8	1933.1	1675.9	1606.5	1588.1
67.5°	6566.8	3609.0	1328.9	1365.6	1492.2	1780.0	2049.5	1845.3	1586.1	1549.3	1520.8
70°	3635.5	2220.9	1218.7	1261.5	1377.9	1629.0	1918.8	1712.6	1455.4	1439.1	1398.3
72.5°	1910.7	1414.6	1094.1	1141.1	1222.7	1435.0	1718.8	1567.7	1326.8	1257.4	1204.4
74°	1492.2	1159.5	1010.4	1059.4	1114.5	1320.7	1600.4	1463.6	1235.0	1153.3	1112.5
75°	1300.3	1032.9	939.0	1002.3	1051.3	1243.1	1508.5	1390.1	1184.0	1106.4	1069.6
77.5°	918.6	773.7	767.5	843.1	869.6	1090.1	1359.5	1265.6	1055.3	973.7	939.0
80°	645.0	579.7	608.3	655.3	692.0	963.5	1261.5	1094.1	865.5	769.6	757.3
82.5°	420.5	379.7	434.8	477.7	489.9	710.4	1018.6	830.8	630.8	512.4	475.6
85°	193.9	189.8	249.0	242.9	240.9	347.0	604.2	485.8	363.4	271.5	255.2
87.5°	49.0	46.9	61.2	51.0	61.2	53.1	55.1	14.3	2.0	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)