

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: P459467

Luminaire Tested: **GALN-SA9A-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459467
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-SA9A-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 38535 lumens
Efficiency: N/A
Efficacy: 140.6 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

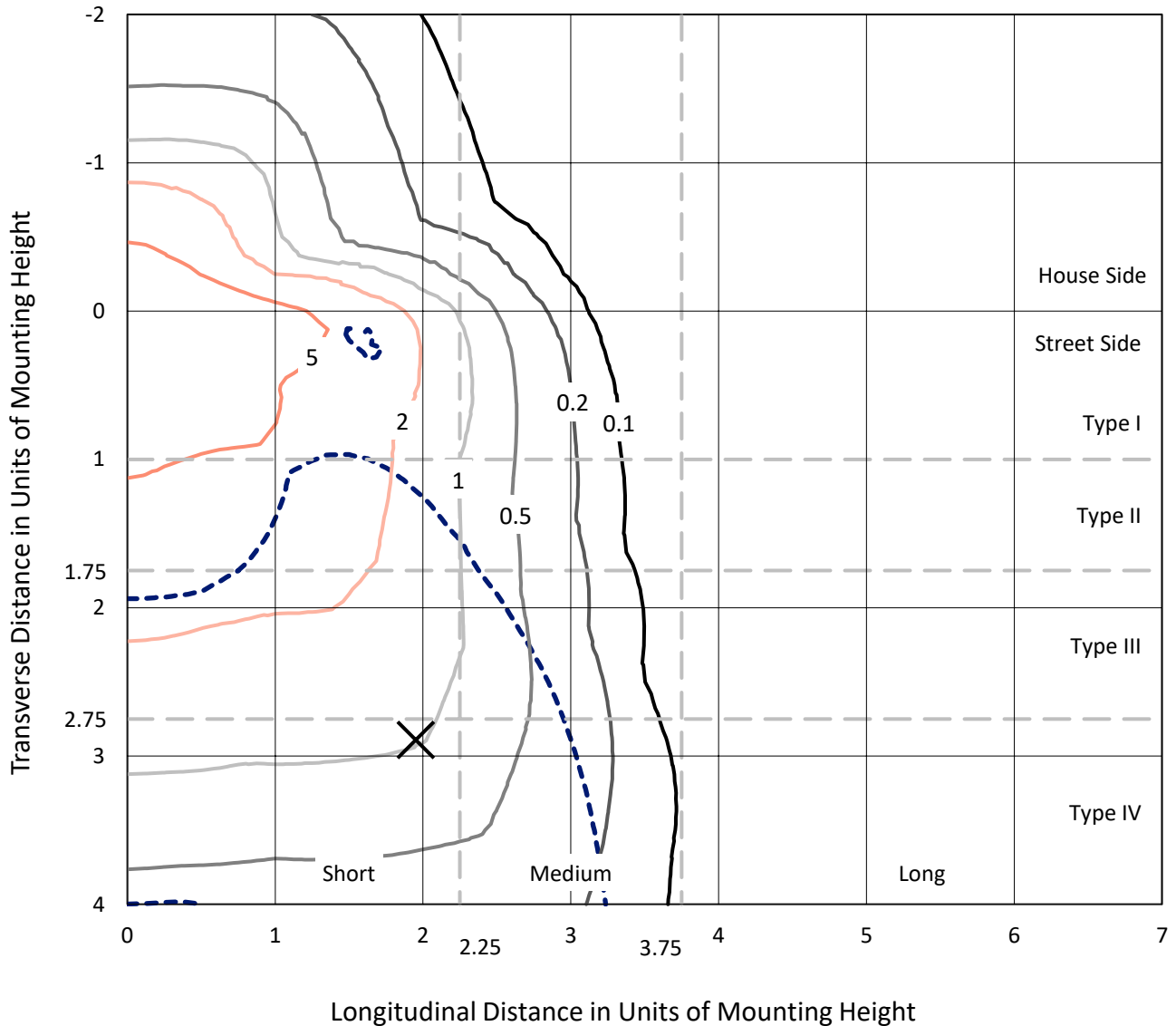
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

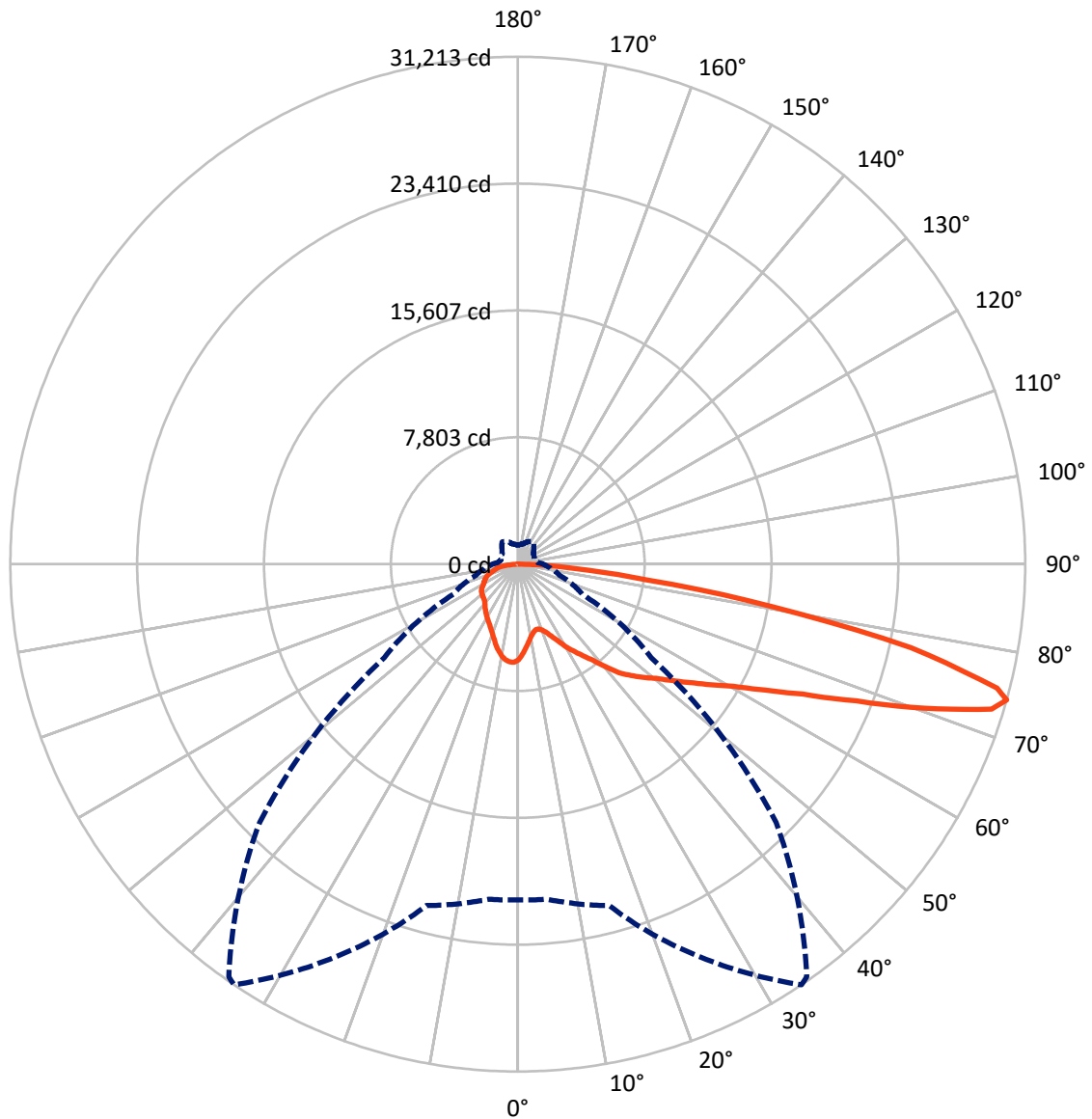
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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
House Side	Lumens	8200.5	0.0	8200.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	30334.5	0.0	30334.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	38535.0	0.0	38535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.1	1.4
10°-20°	1464.8	3.8
20°-30°	2415.0	6.3
30°-40°	3617.4	9.4
40°-50°	5258.7	13.6
50°-60°	7345.2	19.1
60°-70°	9195.8	23.9
70°-80°	7604.2	19.7
80°-90°	1098.7	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°	38535.0	100.0
0°-180°	38535.0	100.0

Coefficient of Utilization



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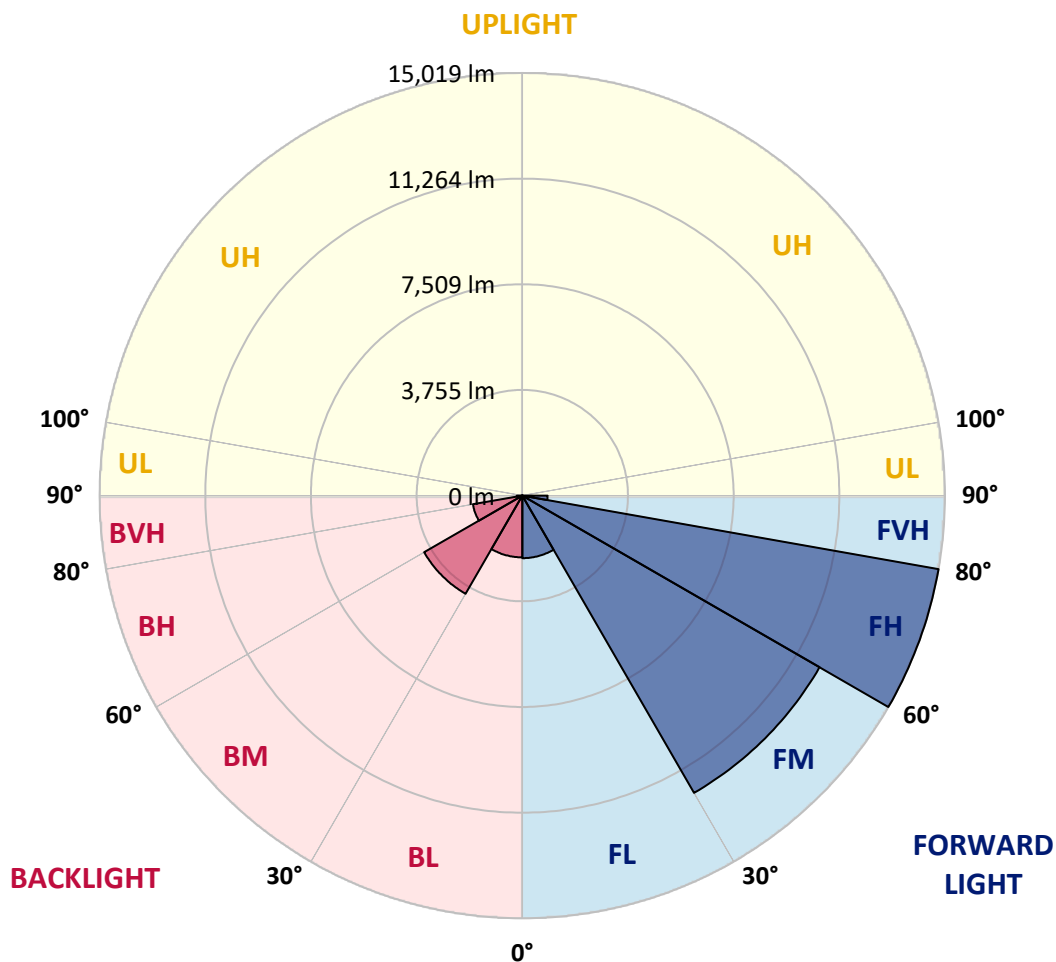
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2221.4	5.8			
FM	(30°-60°)	12194.1	31.6			
FH	(60°-80°)	15018.9	39.0			G5
FVH	(80°-90°)	900.1	2.3			G5
BL	(0°-30°)	2193.5	5.7	B3/2500		
BM	(30°-60°)	4027.3	10.5	B3/5000		
BH	(60°-80°)	1781.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	198.6	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°	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5
2.5°	5437.4	5465.1	5480.1	5533.4	5546.2	5563.3	5608.1	5667.9	5744.8	5813.1	5872.9
5°	4984.8	5027.5	5053.1	5100.1	5191.9	5200.4	5319.9	5456.6	5612.4	5757.6	5877.1
7.5°	4555.7	4602.6	4624.0	4709.4	4831.1	4850.3	5025.3	5241.0	5501.4	5721.3	5904.9
10°	4233.3	4256.8	4303.8	4367.8	4513.0	4525.8	4754.2	5042.4	5379.7	5704.2	5951.8
12.5°	4058.3	4071.1	4081.8	4150.1	4293.1	4312.3	4551.4	4878.0	5283.7	5717.0	6028.7
15°	4083.9	4088.2	4041.2	4054.0	4169.3	4197.0	4434.0	4769.2	5223.9	5749.0	6144.0
17.5°	4299.5	4284.6	4169.3	4109.5	4190.6	4203.4	4410.5	4726.5	5196.1	5808.8	6263.5
20°	4638.9	4617.6	4419.1	4286.7	4333.7	4344.3	4487.4	4758.5	5223.9	5907.0	6449.3
22.5°	5061.6	5053.1	4752.1	4592.0	4589.8	4589.8	4664.6	4873.8	5307.1	6041.5	6643.5
25°	5653.0	5608.1	5215.3	5008.3	4950.6	4946.4	4937.8	5063.8	5413.9	6184.5	6874.1
27.5°	6259.3	6182.4	5832.3	5514.2	5390.4	5375.4	5319.9	5332.8	5550.5	6346.8	7136.7
30°	6803.6	6754.5	6425.8	6073.5	5926.2	5892.1	5738.4	5667.9	5778.9	6639.3	7555.1
32.5°	7219.9	7190.0	6933.9	6613.6	6395.9	6389.5	6165.3	6107.7	6135.4	6993.6	8033.3
35°	7557.2	7567.9	7437.7	7160.1	6910.4	6874.1	6724.6	6652.1	6570.9	7506.0	8635.3
37.5°	8018.3	8041.8	8033.3	7794.2	7488.9	7497.4	7463.3	7343.7	7128.1	8078.1	9303.5
40°	8526.4	8543.5	8541.4	8449.6	8289.5	8298.0	8285.2	8148.6	7826.2	8806.1	10046.4
42.5°	9228.8	9147.7	8936.3	9028.1	9122.0	9162.6	9250.1	9119.9	8678.0	9583.2	10744.5
45°	10014.4	9860.7	9382.5	9425.2	9773.2	9850.0	10332.5	10153.1	9602.4	10475.5	11566.4
47.5°	10509.7	10358.1	9954.6	9946.1	10407.2	10481.9	11335.8	11269.7	10443.5	11438.3	12569.8
50°	10951.6	10930.2	10475.5	10584.4	11034.8	11145.8	12428.9	12366.9	11282.5	12574.0	13662.8
52.5°	11607.0	11434.0	11071.1	11295.3	11890.9	12036.1	13513.3	13331.9	12053.1	13577.4	14723.8
55°	11901.6	11861.0	11839.6	12033.9	12851.5	12956.2	14567.9	14151.6	12710.7	14427.0	15530.7
57.5°	12689.3	12614.6	12825.9	12958.3	13983.0	14143.1	15669.5	15007.7	13287.0	15101.6	15923.5
60°	13709.7	13669.2	13863.4	14102.5	15246.8	15490.2	16924.8	15737.8	13750.3	15441.1	15707.9
62.5°	15234.0	15229.7	15193.4	15705.8	17037.9	17262.1	18365.8	16448.7	13822.9	15187.0	14593.6
65°	17420.0	17343.2	17027.2	17586.6	19266.6	19529.2	19866.5	16845.8	13385.2	13882.7	12288.0
67.5°	19706.4	19702.1	19446.0	20171.8	22466.7	22737.8	21743.0	16758.2	12170.5	11246.2	8727.1
70°	21602.1	21510.3	21837.0	23771.1	26554.9	26868.7	23384.7	15727.1	9694.2	7427.0	5185.4
72.5°	22056.8	22061.1	22740.0	26546.3	30480.8	30529.9	23976.0	12746.9	6487.7	4096.7	2593.8
74°	20656.4	20692.7	21745.2	26685.1	31213.0	30991.0	22464.6	10018.7	4387.0	2674.9	1870.1
75°	18854.6	18626.2	20148.3	25760.7	30453.0	30213.9	20694.8	8039.7	3347.4	2136.9	1637.4
77.5°	10080.6	10313.3	12661.5	19224.0	24740.3	24464.9	14032.1	3855.5	1808.2	1488.0	1178.4
80°	3588.6	3957.9	5563.3	10059.2	15861.6	15947.0	6696.9	1767.6	1272.3	1097.3	832.6
82.5°	1464.5	1505.0	2388.9	4463.9	8054.6	8131.5	2734.7	1050.3	909.4	755.7	497.4
85°	572.1	589.2	1056.7	2006.7	3437.0	3661.2	945.7	555.1	559.3	433.4	254.0
87.5°	192.1	217.8	433.4	668.2	1167.7	1144.3	275.4	164.4	200.7	187.9	79.0
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°	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5	5883.5
2.5°	5902.7	5943.3	5971.1	6000.9	6028.7	6037.2	6030.8	6050.0	6052.2	6054.3	6056.5
5°	5936.9	5992.4	6045.8	6075.7	6088.5	6077.8	6041.5	6022.3	6005.2	5992.4	5996.7
7.5°	5983.9	6062.9	6112.0	6124.8	6090.6	6041.5	5951.8	5881.4	5836.6	5806.7	5804.5
10°	6056.5	6133.3	6173.9	6137.6	6043.6	5924.1	5783.2	5650.8	5550.5	5520.6	5518.5
12.5°	6148.2	6235.8	6233.6	6126.9	5962.5	5749.0	5520.6	5366.9	5230.3	5162.0	5189.7
15°	6267.8	6334.0	6272.1	6079.9	5819.5	5527.0	5245.2	5036.0	4882.3	4809.7	4814.0
17.5°	6406.6	6464.2	6299.8	5996.7	5618.8	5243.1	4916.5	4717.9	4596.2	4542.9	4538.6
20°	6579.5	6596.6	6299.8	5851.5	5360.5	4912.2	4600.5	4461.7	4393.4	4365.7	4374.2
22.5°	6765.2	6731.1	6265.7	5646.6	5021.1	4566.4	4357.1	4295.2	4261.1	4256.8	4261.1
25°	6974.4	6878.4	6195.2	5369.0	4666.7	4267.5	4145.8	4156.5	4162.9	4162.9	4177.8
27.5°	7230.6	7038.5	6077.8	5018.9	4252.5	3990.0	3955.8	4030.5	4064.7	4071.1	4081.8
30°	7567.9	7213.5	5883.5	4581.3	3900.3	3740.2	3800.0	3900.3	3938.7	3962.2	3957.9
32.5°	7969.2	7405.7	5621.0	4143.7	3616.4	3565.1	3637.7	3740.2	3782.9	3795.7	3778.6
35°	8441.0	7623.4	5275.1	3733.8	3368.7	3398.6	3484.0	3516.0	3554.5	3554.5	3563.0
37.5°	8949.1	7798.5	4852.4	3358.1	3176.6	3285.5	3347.4	3317.5	3300.4	3279.1	3289.7
40°	9465.7	7928.7	4303.8	2986.6	2984.5	3168.1	3185.1	3099.7	3031.4	3010.1	2999.4
42.5°	9916.2	8009.8	3808.5	2698.4	2803.0	3052.8	3065.6	2929.0	2820.1	2756.0	2734.7
45°	10447.8	8103.7	3323.9	2459.3	2634.4	2961.0	2993.0	2809.4	2649.3	2514.8	2480.6
47.5°	11175.7	8317.2	2941.8	2273.6	2512.7	2903.3	2948.2	2711.2	2499.9	2324.8	2297.1
50°	11997.6	8609.7	2645.0	2147.6	2418.7	2852.1	2907.6	2610.9	2361.1	2166.8	2145.5
52.5°	12751.2	8767.7	2388.9	2034.5	2326.9	2758.2	2854.2	2538.3	2224.5	2008.9	1989.6
55°	13163.2	8511.5	2136.9	1923.5	2201.0	2636.5	2779.5	2438.0	2092.1	1925.6	1897.8
57.5°	13218.7	7982.0	1908.5	1803.9	2068.6	2487.1	2640.8	2316.3	2006.7	1868.0	1844.5
60°	12789.6	7192.2	1731.3	1705.7	1934.1	2318.4	2484.9	2209.5	1919.2	1803.9	1780.4
62.5°	11722.2	6334.0	1607.5	1616.1	1797.5	2141.2	2369.6	2107.1	1835.9	1733.5	1712.1
65°	9886.3	5228.1	1488.0	1524.3	1675.8	2002.5	2265.0	2021.7	1752.7	1680.1	1660.9
67.5°	6867.7	3774.3	1389.8	1428.2	1560.5	1861.6	2143.3	1929.9	1658.7	1620.3	1590.4
70°	3802.1	2322.7	1274.5	1319.3	1441.0	1703.6	2006.7	1791.1	1522.1	1505.0	1462.3
72.5°	1998.2	1479.4	1144.3	1193.4	1278.8	1500.8	1797.5	1639.5	1387.6	1315.0	1259.5
74°	1560.5	1212.6	1056.7	1108.0	1165.6	1381.2	1673.7	1530.7	1291.6	1206.2	1163.5
75°	1359.9	1080.2	982.0	1048.2	1099.4	1300.1	1577.6	1453.8	1238.2	1157.1	1118.6
77.5°	960.7	809.1	802.7	881.7	909.4	1140.0	1421.8	1323.6	1103.7	1018.3	982.0
80°	674.6	606.3	636.2	685.3	723.7	1007.6	1319.3	1144.3	905.2	804.8	792.0
82.5°	439.8	397.1	454.7	499.5	512.4	742.9	1065.3	868.9	659.7	535.8	497.4
85°	202.8	198.5	260.4	254.0	251.9	362.9	631.9	508.1	380.0	283.9	266.9
87.5°	51.2	49.1	64.0	53.4	64.0	55.5	57.6	14.9	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)