

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: P456708

Luminaire Tested: **GALN-SA8A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30626 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

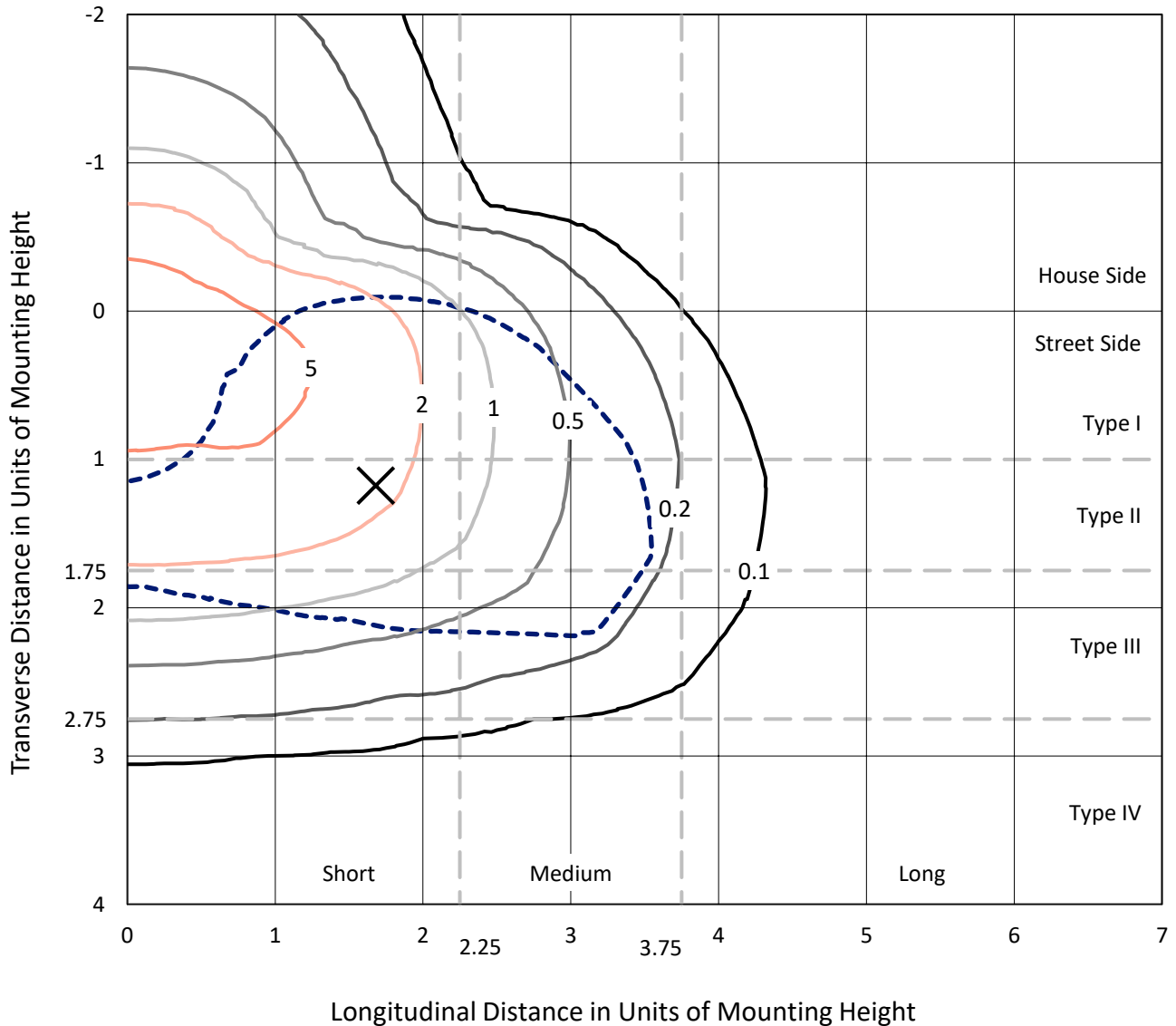
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

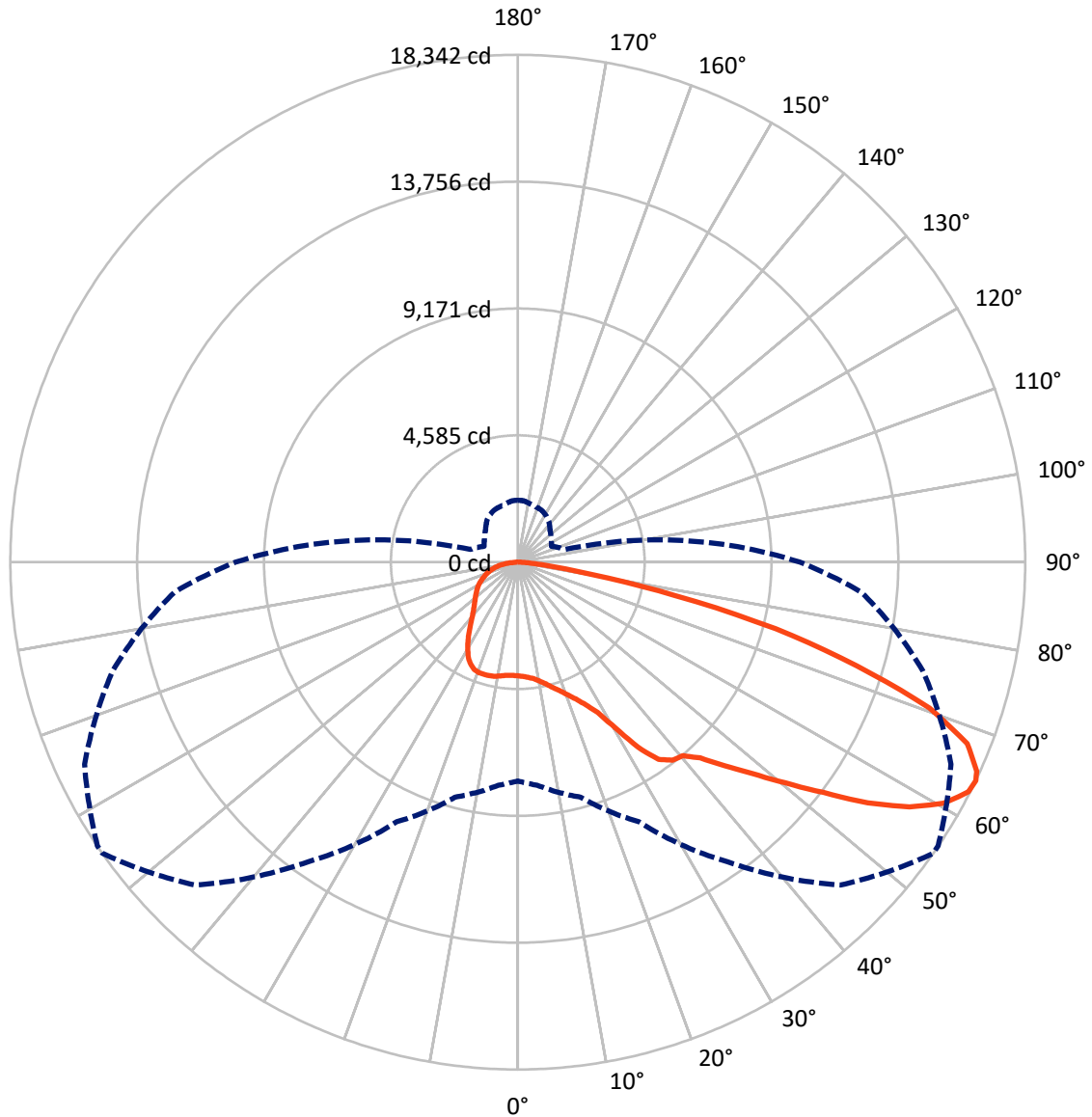
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7439.7	0.0	7439.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	23186.3	0.0	23186.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	30626.0	0.0	30626.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	1.3
10°-20°	1261.2	4.1
20°-30°	2245.3	7.3
30°-40°	3454.6	11.3
40°-50°	4897.1	16.0
50°-60°	7088.5	23.1
60°-70°	7335.8	24.0
70°-80°	3435.4	11.2
80°-90°	508.6	1.7
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°	30626.0	100.0
0°-180°	30626.0	100.0



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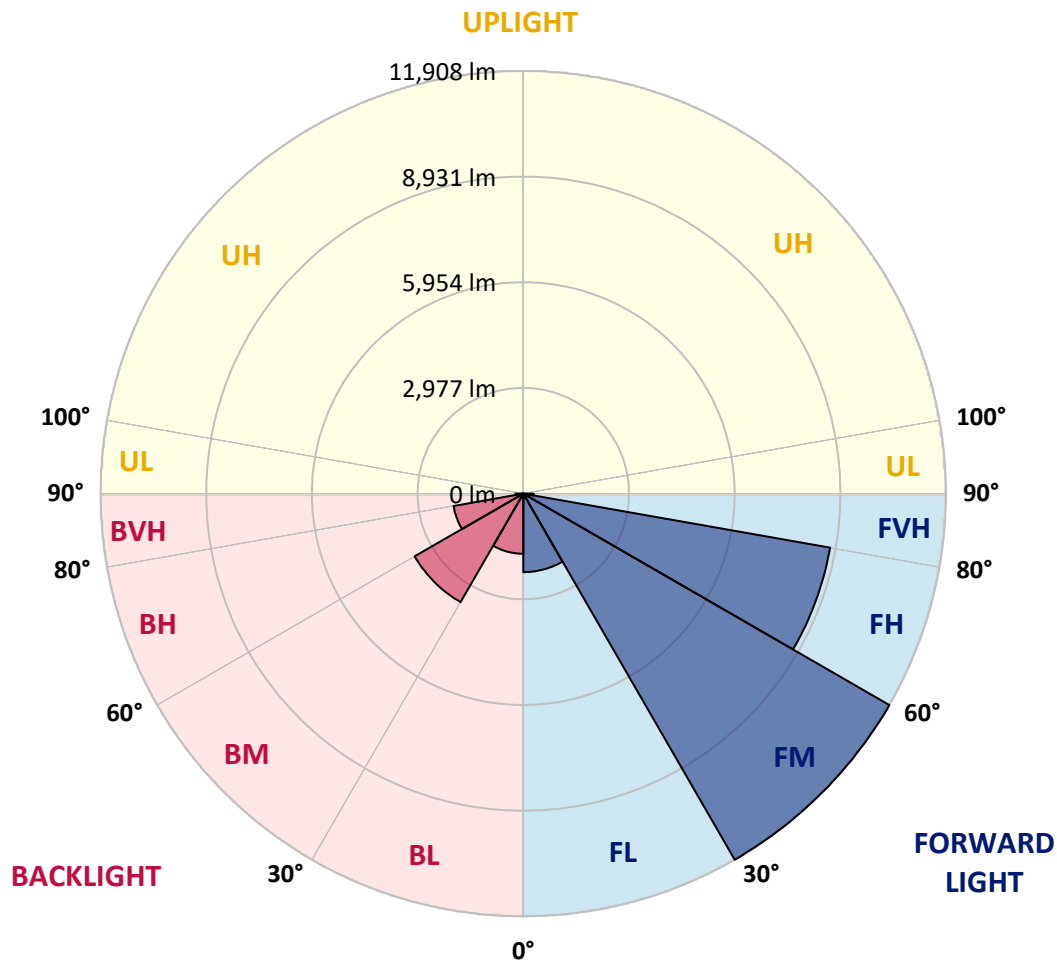
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2211.7	7.2			
FM	(30°-60°)	11908.2	38.9			
FH	(60°-80°)	8775.2	28.7			G4/12000
FVH	(80°-90°)	291.2	1.0			G3/500
BL	(0°-30°)	1694.5	5.5	B3/2500		
BM	(30°-60°)	3531.9	11.5	B3/5000		
BH	(60°-80°)	1995.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	217.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1
2.5°	4155.2	4153.5	4158.6	4153.5	4156.9	4144.9	4139.8	4143.2	4138.1	4129.6	4114.2
5°	4206.4	4204.7	4206.4	4199.6	4203.0	4196.1	4184.2	4187.6	4179.1	4160.3	4138.1
7.5°	4293.5	4286.6	4286.6	4284.9	4278.1	4267.8	4259.3	4255.9	4247.4	4223.5	4189.3
10°	4406.1	4406.1	4407.8	4394.2	4402.7	4383.9	4375.4	4373.7	4344.7	4313.9	4266.1
12.5°	4554.6	4563.2	4558.1	4551.2	4547.8	4541.0	4512.0	4518.8	4486.4	4433.4	4375.4
15°	4739.0	4752.7	4744.1	4740.7	4732.2	4706.6	4694.6	4689.5	4646.8	4570.0	4493.2
17.5°	4983.1	4966.1	4959.2	4950.7	4914.9	4896.1	4875.6	4872.2	4834.6	4744.1	4624.6
20°	5196.5	5220.4	5206.8	5198.2	5162.4	5126.5	5111.2	5106.1	5073.6	4974.6	4783.4
22.5°	5450.9	5456.0	5461.1	5440.7	5423.6	5396.3	5369.0	5360.4	5348.5	5246.0	5012.2
25°	5722.3	5742.8	5725.7	5705.3	5684.8	5683.1	5708.7	5705.3	5700.1	5601.1	5316.0
27.5°	6164.5	6183.3	6188.4	6166.2	6087.7	6094.5	6152.5	6171.3	6249.8	6086.0	5707.0
30°	6413.7	6432.5	6475.2	6558.8	6683.5	6792.7	6932.7	6975.4	7050.5	6741.5	6171.3
32.5°	6567.4	6574.2	6651.0	6806.4	7180.2	7588.2	7968.9	7984.3	8032.1	7598.5	6596.4
35°	6809.8	6814.9	6876.4	7047.1	7485.8	8165.2	8754.2	8773.0	8733.7	7864.8	6794.4
37.5°	7108.5	7122.2	7161.5	7303.1	7827.2	8648.4	9080.3	9066.6	8718.4	8076.5	7144.4
40°	7543.8	7543.8	7497.8	7689.0	8187.4	8924.9	9194.7	9170.8	9078.6	8689.3	7677.0
42.5°	7928.0	7921.1	8030.4	8160.1	8638.1	9351.7	9674.4	9713.6	9865.6	9459.3	8283.0
45°	8428.1	8458.9	8520.3	8755.9	9404.6	10080.7	10497.2	10534.8	10749.9	10365.8	8991.5
47.5°	8933.5	8943.7	9136.6	9450.7	10353.8	11069.1	11410.5	11472.0	11668.3	11425.9	9754.6
50°	9292.0	9389.3	9698.3	10193.3	11332.0	12274.3	12540.6	12614.1	12960.6	12579.9	10644.0
52.5°	9670.9	9766.5	10143.8	10898.4	12455.3	13506.9	13834.7	13884.2	14244.4	13747.6	11553.9
55°	9995.3	10084.1	10512.6	11523.2	13349.8	14765.0	15359.1	15301.1	15473.5	14647.3	12255.6
57.5°	10048.2	10119.9	10659.4	11922.7	14022.4	15844.0	16695.8	16730.0	16530.2	15319.9	12834.3
60°	9638.5	9785.3	10405.0	11880.0	14324.6	16595.1	17692.8	17716.7	17149.9	15664.7	13064.7
62.5°	8913.0	8897.6	9647.0	11193.7	13901.2	16765.8	18280.0	18254.4	17392.3	15499.1	12841.1
64°	7910.9	8095.3	8795.2	10350.4	13218.4	16502.9	18341.5	18327.8	17276.3	15154.3	12460.4
65°	7299.7	7289.5	7980.9	9660.7	12538.9	16106.9	18232.2	18213.5	17033.8	14845.3	12165.1
67.5°	5269.9	5293.8	5976.7	7455.1	10193.3	14558.5	17520.4	17450.4	16077.8	13821.0	11041.8
70°	3192.4	3206.0	3742.0	4945.6	7316.8	11769.0	15792.7	15796.2	14614.8	12291.4	9397.8
72.5°	1681.5	1717.4	1932.5	2808.2	4443.7	8257.4	12812.1	13116.0	12547.5	10490.4	7424.3
75°	935.5	940.6	1092.6	1384.5	2267.1	4621.2	9630.0	9717.0	9933.8	8443.5	5490.2
77.5°	713.6	723.8	771.6	894.5	1234.3	2142.5	5828.2	6265.2	7001.0	5952.8	3132.6
80°	578.7	589.0	629.9	703.3	821.1	1015.7	2707.5	2943.1	3747.2	2642.7	1222.3
82.5°	450.7	443.9	496.8	544.6	597.5	600.9	1111.3	1229.1	1526.2	1137.0	529.2
85°	334.6	334.6	377.3	367.0	385.8	351.7	489.9	541.2	611.2	483.1	245.8
87.5°	133.2	146.8	247.5	221.9	172.4	138.3	181.0	191.2	211.7	189.5	102.4
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°	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1	4109.1
2.5°	4115.9	4121.0	4109.1	4100.5	4097.1	4092.0	4086.9	4088.6	4095.4	4102.3	4100.5
5°	4136.4	4138.1	4117.6	4107.4	4100.5	4093.7	4093.7	4098.8	4112.5	4122.7	4122.7
7.5°	4187.6	4187.6	4158.6	4139.8	4129.6	4117.6	4114.2	4115.9	4126.2	4139.8	4141.5
10°	4267.8	4261.0	4223.5	4194.4	4175.7	4146.6	4121.0	4107.4	4112.5	4121.0	4121.0
12.5°	4365.2	4346.4	4298.6	4259.3	4213.2	4158.6	4105.7	4078.4	4076.6	4085.2	4081.8
15°	4469.3	4448.8	4382.2	4310.5	4230.3	4150.1	4086.9	4047.6	4016.9	4008.4	4027.1
17.5°	4590.5	4547.8	4455.6	4356.6	4237.1	4133.0	4034.0	3953.7	3899.1	3883.7	3888.9
20°	4737.3	4681.0	4556.4	4401.0	4232.0	4071.5	3917.9	3810.3	3721.6	3694.2	3697.7
22.5°	4940.5	4843.2	4660.5	4423.2	4189.3	3955.4	3742.0	3602.1	3494.5	3451.8	3477.4
25°	5170.9	5065.1	4759.5	4418.1	4078.4	3769.4	3533.8	3351.1	3253.8	3190.6	3204.3
27.5°	5488.5	5300.7	4865.3	4372.0	3919.6	3542.3	3269.2	3096.8	3008.0	2975.5	2990.9
30°	5894.8	5606.2	4979.7	4247.4	3668.6	3255.5	3002.9	2890.2	2837.3	2796.3	2810.0
32.5°	6188.4	5821.3	5005.3	4037.4	3397.2	2994.3	2821.9	2738.3	2680.2	2640.9	2649.5
35°	6398.4	6004.0	4993.4	3779.6	3113.8	2779.2	2678.5	2610.2	2516.3	2431.0	2415.6
37.5°	6680.0	6232.8	4906.3	3497.9	2833.9	2634.1	2562.4	2436.1	2301.2	2186.8	2181.7
40°	7111.9	6500.8	4720.2	3166.7	2594.9	2526.6	2439.5	2275.6	2130.5	2038.3	2031.5
42.5°	7557.5	6748.3	4467.6	2818.5	2398.5	2413.9	2308.1	2145.9	2057.1	1997.4	1990.5
45°	8102.1	7016.3	4194.4	2516.3	2253.4	2308.1	2193.7	2099.8	2046.9	2007.6	1997.4
47.5°	8691.0	7291.2	3887.2	2244.9	2130.5	2210.7	2145.9	2103.2	2074.2	2046.9	2034.9
50°	9326.1	7598.5	3598.7	2026.4	2019.5	2110.0	2140.8	2125.4	2108.3	2099.8	2089.5
52.5°	10022.6	7912.6	3356.2	1872.7	1922.2	2038.3	2142.5	2154.4	2154.4	2149.3	2142.5
55°	10493.8	8131.1	3110.4	1748.1	1823.2	1980.3	2139.0	2185.1	2202.2	2195.4	2188.6
57.5°	10842.0	8250.6	2801.4	1640.6	1739.6	1923.9	2120.3	2188.6	2205.6	2214.2	2210.7
60°	10913.7	8139.6	2396.8	1527.9	1649.1	1842.0	2052.0	2137.3	2159.5	2212.5	2217.6
62.5°	10591.1	7798.2	1993.9	1416.9	1538.1	1717.4	1959.8	2079.3	2123.7	2205.6	2214.2
64°	10195.0	7415.8	1770.3	1346.9	1466.4	1647.4	1913.7	2063.9	2122.0	2231.2	2238.1
65°	9904.8	7137.6	1630.3	1302.5	1420.3	1601.3	1888.1	2069.1	2137.3	2270.5	2280.7
67.5°	8836.2	6179.8	1348.6	1198.4	1311.1	1522.8	1893.2	2111.7	2133.9	2285.9	2284.2
70°	7311.7	4920.0	1130.1	1102.8	1205.2	1459.6	1872.7	2043.4	2045.2	2145.9	2122.0
72.5°	5474.8	3636.2	979.9	1003.8	1087.4	1309.4	1768.6	1951.3	1922.2	1935.9	1912.0
75°	3760.8	2405.4	843.3	898.0	964.5	1157.4	1621.8	1772.0	1725.9	1708.8	1691.8
77.5°	2007.6	1329.9	701.6	793.8	838.2	1000.4	1415.2	1560.3	1512.5	1445.9	1423.8
80°	812.6	626.5	565.1	657.2	682.9	805.8	1177.9	1268.4	1232.6	1116.5	1078.9
82.5°	408.0	375.6	443.9	517.3	519.0	575.3	875.8	961.1	880.9	739.2	706.8
85°	213.4	220.2	305.6	363.6	320.9	310.7	525.8	582.1	534.3	464.3	418.2
87.5°	76.8	88.8	160.5	158.8	112.7	59.7	116.1	56.3	30.7	18.8	23.9
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)