

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: P457781

Luminaire Tested: **GALN-SA9A-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457781
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-SA9A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 30222 lumens
Efficiency: N/A
Efficacy: 110.3 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

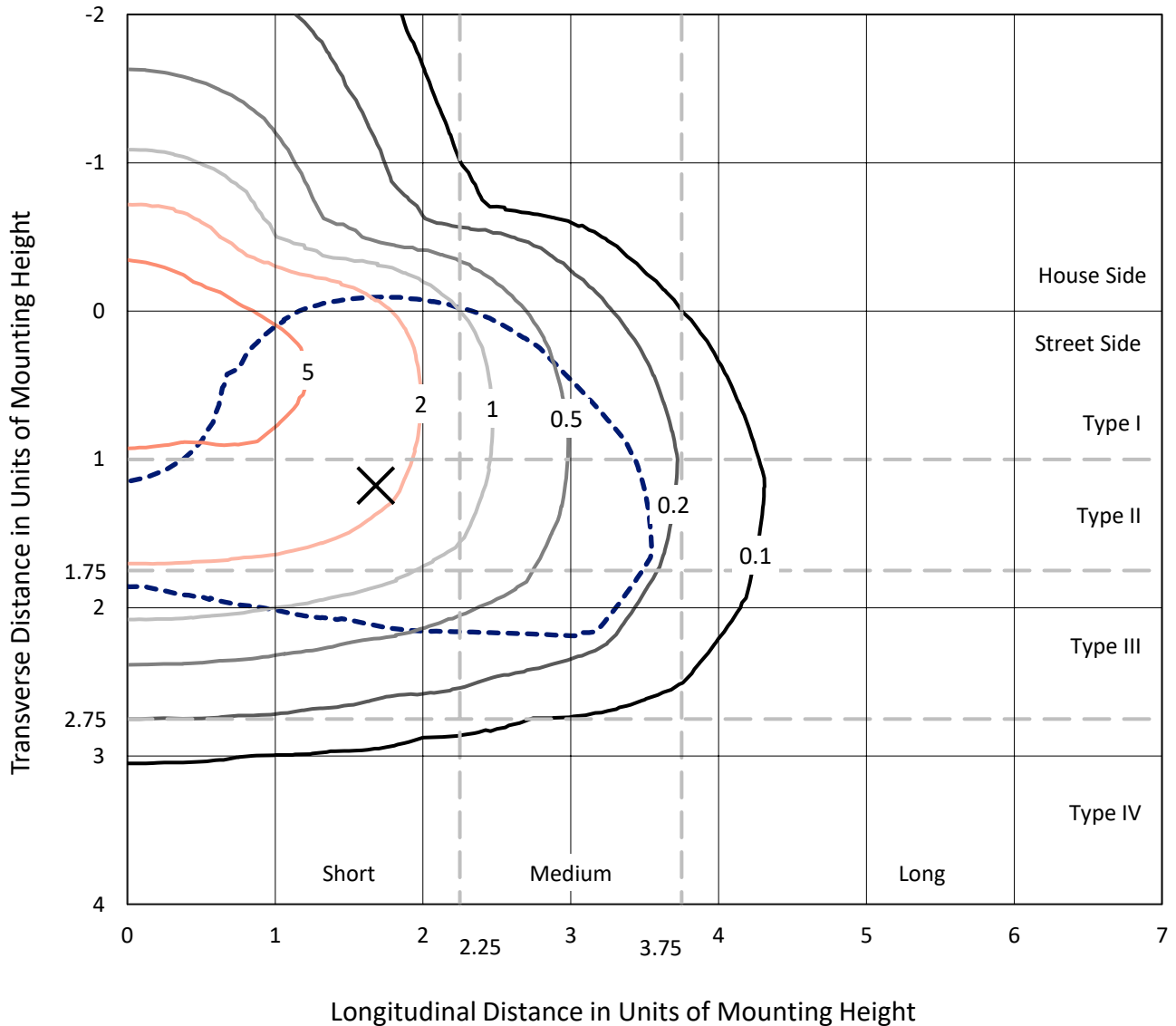
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

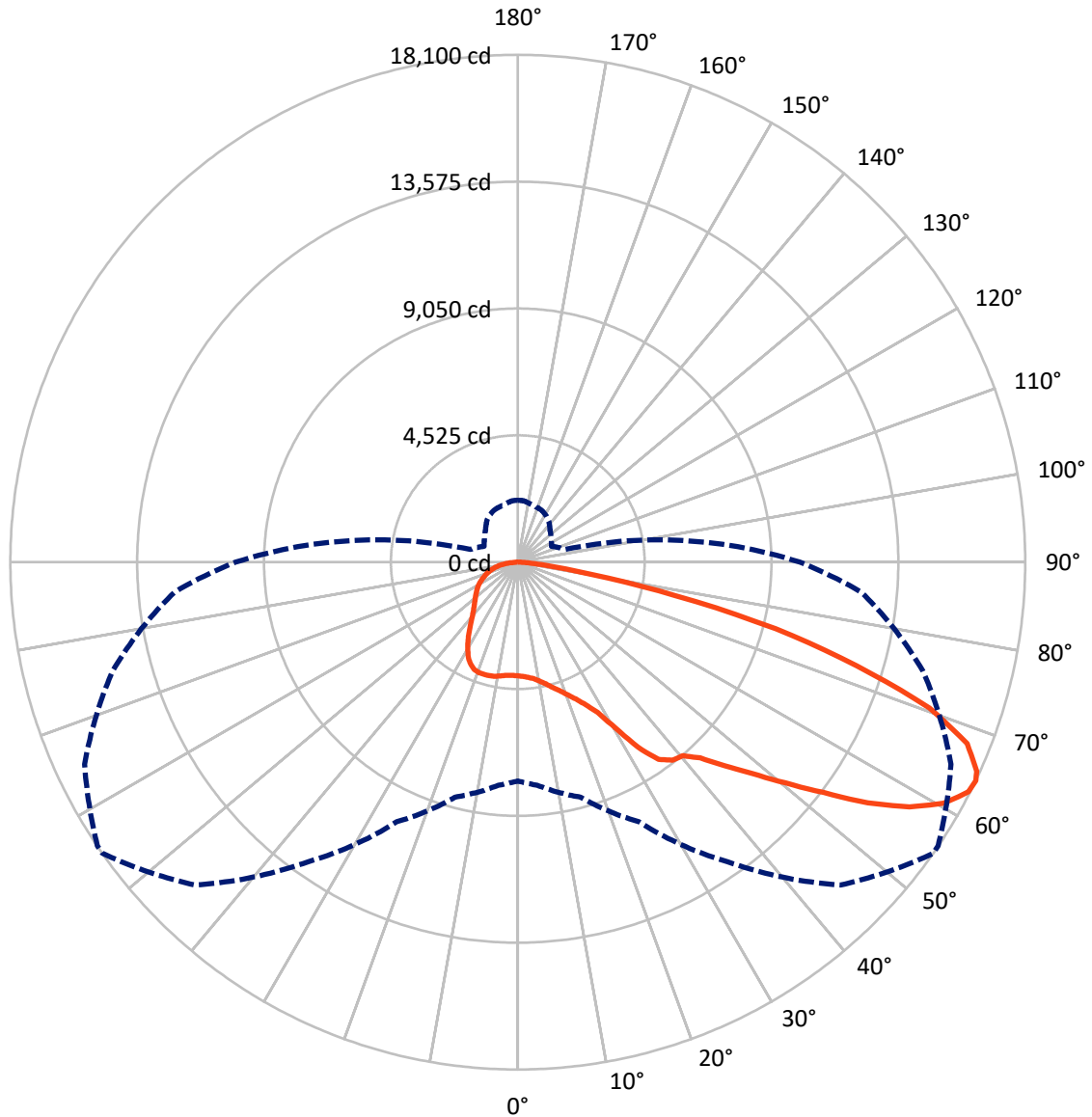
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	7341.5	0.0	7341.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	22880.5	0.0	22880.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	30222.0	0.0	30222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	1.3
10°-20°	1244.6	4.1
20°-30°	2215.6	7.3
30°-40°	3409.0	11.3
40°-50°	4832.5	16.0
50°-60°	6995.0	23.1
60°-70°	7239.0	24.0
70°-80°	3390.0	11.2
80°-90°	501.9	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°	30222.0	100.0
0°-180°	30222.0	100.0

Coefficient of Utilization



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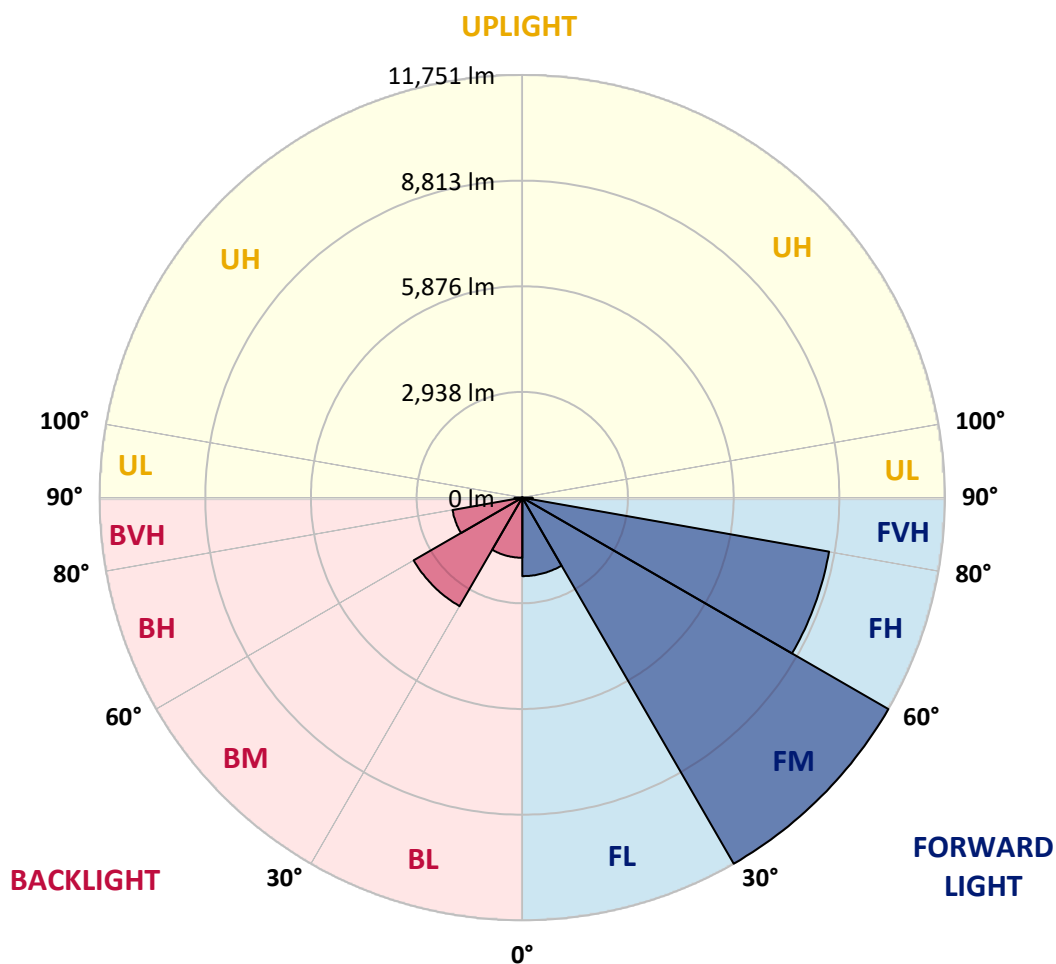
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.5	7.2			
FM	(30°-60°)	11751.1	38.9			
FH	(60°-80°)	8659.5	28.7			G4/12000
FVH	(80°-90°)	287.4	1.0			G3/500
BL	(0°-30°)	1672.1	5.5	B3/2500		
BM	(30°-60°)	3485.3	11.5	B3/5000		
BH	(60°-80°)	1969.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	214.5	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°	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9
2.5°	4100.4	4098.7	4103.7	4098.7	4102.0	4090.3	4085.2	4088.6	4083.5	4075.1	4059.9
5°	4150.9	4149.2	4150.9	4144.2	4147.5	4140.8	4129.0	4132.4	4123.9	4105.4	4083.5
7.5°	4236.8	4230.1	4230.1	4228.4	4221.7	4211.5	4203.1	4199.8	4191.3	4167.7	4134.1
10°	4348.0	4348.0	4349.7	4336.2	4344.6	4326.1	4317.7	4316.0	4287.4	4257.0	4209.9
12.5°	4494.6	4503.0	4497.9	4491.2	4487.8	4481.1	4452.5	4459.2	4427.2	4375.0	4317.7
15°	4676.5	4690.0	4681.6	4678.2	4669.8	4644.5	4632.7	4627.7	4585.5	4509.7	4433.9
17.5°	4917.4	4900.6	4893.8	4885.4	4850.0	4831.5	4811.3	4807.9	4770.8	4681.6	4563.6
20°	5128.0	5151.6	5138.1	5129.7	5094.3	5058.9	5043.8	5038.7	5006.7	4909.0	4720.3
22.5°	5379.0	5384.0	5389.1	5368.9	5352.0	5325.1	5298.1	5289.7	5277.9	5176.8	4946.0
25°	5646.8	5667.1	5650.2	5630.0	5609.8	5608.1	5633.4	5630.0	5624.9	5527.2	5245.9
27.5°	6083.2	6101.7	6106.7	6084.8	6007.4	6014.1	6071.4	6089.9	6167.4	6005.7	5631.7
30°	6329.1	6347.6	6389.8	6472.3	6595.3	6703.1	6841.2	6883.4	6957.5	6652.6	6089.9
32.5°	6480.7	6487.5	6563.3	6716.6	7085.5	7488.1	7863.8	7879.0	7926.1	7498.2	6509.4
35°	6719.9	6725.0	6785.6	6954.1	7387.1	8057.5	8638.7	8657.3	8618.5	7761.0	6704.8
37.5°	7014.8	7028.2	7067.0	7206.8	7724.0	8534.3	8960.5	8947.0	8603.4	7969.9	7050.1
40°	7444.3	7444.3	7398.9	7587.5	8079.4	8807.2	9073.4	9049.8	8958.8	8574.7	7575.7
42.5°	7823.4	7816.6	7924.5	8052.5	8524.2	9228.3	9546.7	9585.5	9735.4	9334.5	8173.8
45°	8317.0	8347.3	8407.9	8640.4	9280.6	9947.7	10358.7	10395.8	10608.1	10229.0	8872.9
47.5°	8815.6	8825.7	9016.1	9326.1	10217.2	10923.1	11260.0	11320.6	11514.4	11275.2	9625.9
50°	9169.4	9265.4	9570.3	10058.9	11182.5	12112.4	12375.2	12447.7	12789.6	12414.0	10503.6
52.5°	9543.4	9637.7	10010.0	10754.6	12291.0	13328.7	13652.2	13701.0	14056.5	13566.2	11401.5
55°	9863.4	9951.0	10373.9	11371.2	13173.7	14570.3	15156.5	15099.2	15269.4	14454.0	12093.9
57.5°	9915.7	9986.4	10518.8	11765.4	13837.5	15635.0	16475.6	16509.3	16312.2	15117.8	12665.0
60°	9511.4	9656.2	10267.8	11723.3	14135.6	16376.2	17459.4	17483.0	16923.7	15458.1	12892.4
62.5°	8795.4	8780.2	9519.8	11046.1	13717.9	16544.7	18038.9	18013.6	17162.9	15294.7	12671.7
64°	7806.5	7988.5	8679.2	10213.9	13044.0	16285.2	18099.6	18086.1	17048.4	14954.4	12296.0
65°	7203.4	7193.3	7875.6	9533.3	12373.5	15894.4	17991.7	17973.2	16809.1	14649.5	12004.6
67.5°	5200.4	5224.0	5897.9	7356.7	10058.9	14366.4	17289.3	17220.2	15865.8	13638.7	10896.1
70°	3150.2	3163.7	3692.7	4880.3	7220.3	11613.8	15584.4	15587.8	14422.0	12129.3	9273.8
72.5°	1659.4	1694.7	1907.0	2771.2	4385.1	8148.5	12643.1	12942.9	12382.0	10352.0	7326.4
75°	923.2	928.2	1078.2	1366.2	2237.2	4560.3	9502.9	9588.9	9802.8	8332.1	5417.7
77.5°	704.2	714.3	761.4	882.7	1218.0	2114.2	5751.3	6182.6	6908.6	5874.3	3091.3
80°	571.1	581.2	621.6	694.1	810.3	1002.3	2671.8	2904.3	3697.7	2607.8	1206.2
82.5°	444.7	438.0	490.2	537.4	589.6	593.0	1096.7	1212.9	1506.1	1122.0	522.2
85°	330.2	330.2	372.3	362.2	380.7	347.0	483.5	534.0	603.1	476.7	242.6
87.5°	131.4	144.9	244.3	219.0	170.1	136.5	178.6	188.7	208.9	187.0	101.1
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°	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9	4054.9
2.5°	4061.6	4066.7	4054.9	4046.5	4043.1	4038.0	4033.0	4034.7	4041.4	4048.1	4046.5
5°	4081.8	4083.5	4063.3	4053.2	4046.5	4039.7	4039.7	4044.8	4058.2	4068.4	4068.4
7.5°	4132.4	4132.4	4103.7	4085.2	4075.1	4063.3	4059.9	4061.6	4071.7	4085.2	4086.9
10°	4211.5	4204.8	4167.7	4139.1	4120.6	4091.9	4066.7	4053.2	4058.2	4066.7	4066.7
12.5°	4307.6	4289.0	4241.9	4203.1	4157.6	4103.7	4051.5	4024.6	4022.9	4031.3	4027.9
15°	4410.3	4390.1	4324.4	4253.7	4174.5	4095.3	4033.0	3994.2	3963.9	3955.5	3974.0
17.5°	4529.9	4487.8	4396.9	4299.2	4181.2	4078.5	3980.8	3901.6	3847.7	3832.5	3837.6
20°	4674.8	4619.2	4496.3	4343.0	4176.2	4017.8	3866.2	3760.1	3672.5	3645.5	3648.9
22.5°	4875.3	4779.3	4599.0	4364.9	4134.1	3903.3	3692.7	3554.5	3448.4	3406.3	3431.6
25°	5102.7	4998.3	4696.7	4359.8	4024.6	3719.6	3487.2	3306.9	3210.9	3148.6	3162.0
27.5°	5416.1	5230.7	4801.2	4314.3	3867.9	3495.6	3226.0	3055.9	2968.3	2936.3	2951.5
30°	5817.0	5532.3	4914.0	4191.3	3620.2	3212.6	2963.2	2852.1	2799.8	2759.4	2772.9
32.5°	6106.7	5744.6	4939.3	3984.1	3352.4	2954.8	2784.7	2702.1	2644.9	2606.1	2614.5
35°	6314.0	5924.8	4927.5	3729.7	3072.7	2742.6	2643.2	2575.8	2483.1	2398.9	2383.7
37.5°	6591.9	6150.5	4841.6	3451.8	2796.5	2599.4	2528.6	2404.0	2270.9	2158.0	2152.9
40°	7018.1	6415.0	4658.0	3125.0	2560.6	2493.2	2407.3	2245.6	2102.4	2011.4	2004.7
42.5°	7457.8	6659.3	4408.7	2781.3	2366.9	2382.1	2277.6	2117.6	2030.0	1971.0	1964.3
45°	7995.2	6923.8	4139.1	2483.1	2223.7	2277.6	2164.7	2072.1	2019.9	1981.1	1971.0
47.5°	8576.4	7195.0	3835.9	2215.3	2102.4	2181.6	2117.6	2075.5	2046.8	2019.9	2008.1
50°	9203.1	7498.2	3551.2	1999.6	1992.9	2082.2	2112.5	2097.4	2080.5	2072.1	2062.0
52.5°	9890.4	7808.2	3312.0	1848.0	1896.9	2011.4	2114.2	2126.0	2126.0	2120.9	2114.2
55°	10355.4	8023.8	3069.4	1725.1	1799.2	1954.2	2110.8	2156.3	2173.2	2166.4	2159.7
57.5°	10699.0	8141.8	2764.5	1618.9	1716.6	1898.6	2092.3	2159.7	2176.5	2185.0	2181.6
60°	10769.8	8032.3	2365.2	1507.7	1627.3	1817.7	2024.9	2109.1	2131.0	2183.3	2188.3
62.5°	10451.4	7695.3	1967.6	1398.2	1517.8	1694.7	1933.9	2051.9	2095.7	2176.5	2185.0
64°	10060.6	7318.0	1747.0	1329.2	1447.1	1625.7	1888.5	2036.7	2094.0	2201.8	2208.5
65°	9774.2	7043.4	1608.8	1285.4	1401.6	1580.2	1863.2	2041.8	2109.1	2240.5	2250.7
67.5°	8719.6	6098.3	1330.8	1182.6	1293.8	1502.7	1868.2	2083.9	2105.8	2255.7	2254.0
70°	7215.2	4855.1	1115.2	1088.3	1189.3	1440.4	1848.0	2016.5	2018.2	2117.6	2094.0
72.5°	5402.6	3588.2	967.0	990.6	1073.1	1292.1	1745.3	1925.5	1896.9	1910.4	1886.8
75°	3711.2	2373.6	832.2	886.1	951.8	1142.2	1600.4	1748.6	1703.2	1686.3	1669.5
77.5°	1981.1	1312.3	692.4	783.3	827.1	987.2	1396.5	1539.7	1492.6	1426.9	1405.0
80°	801.9	618.3	557.6	648.6	673.8	795.1	1162.4	1251.7	1216.3	1101.7	1064.7
82.5°	402.6	370.6	438.0	510.4	512.1	567.7	864.2	948.4	869.3	729.4	697.4
85°	210.6	217.3	301.5	358.8	316.7	306.6	518.9	574.5	527.3	458.2	412.7
87.5°	75.8	87.6	158.4	156.7	111.2	59.0	114.6	55.6	30.3	18.5	23.6
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)