

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: P522917

Luminaire Tested: **GALN-SA9B-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37948 lumens
Efficiency: N/A
Efficacy: 104.3 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

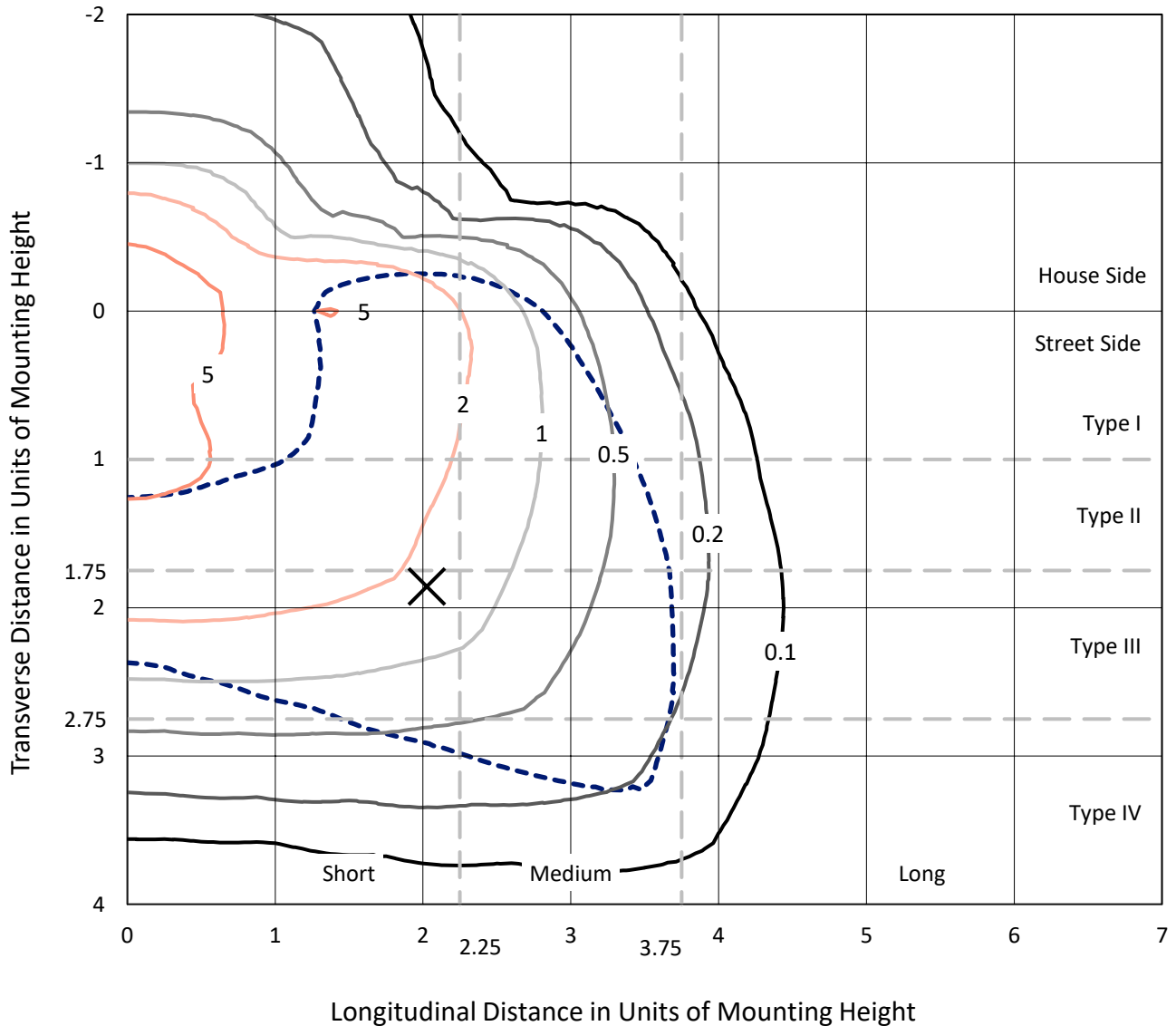
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

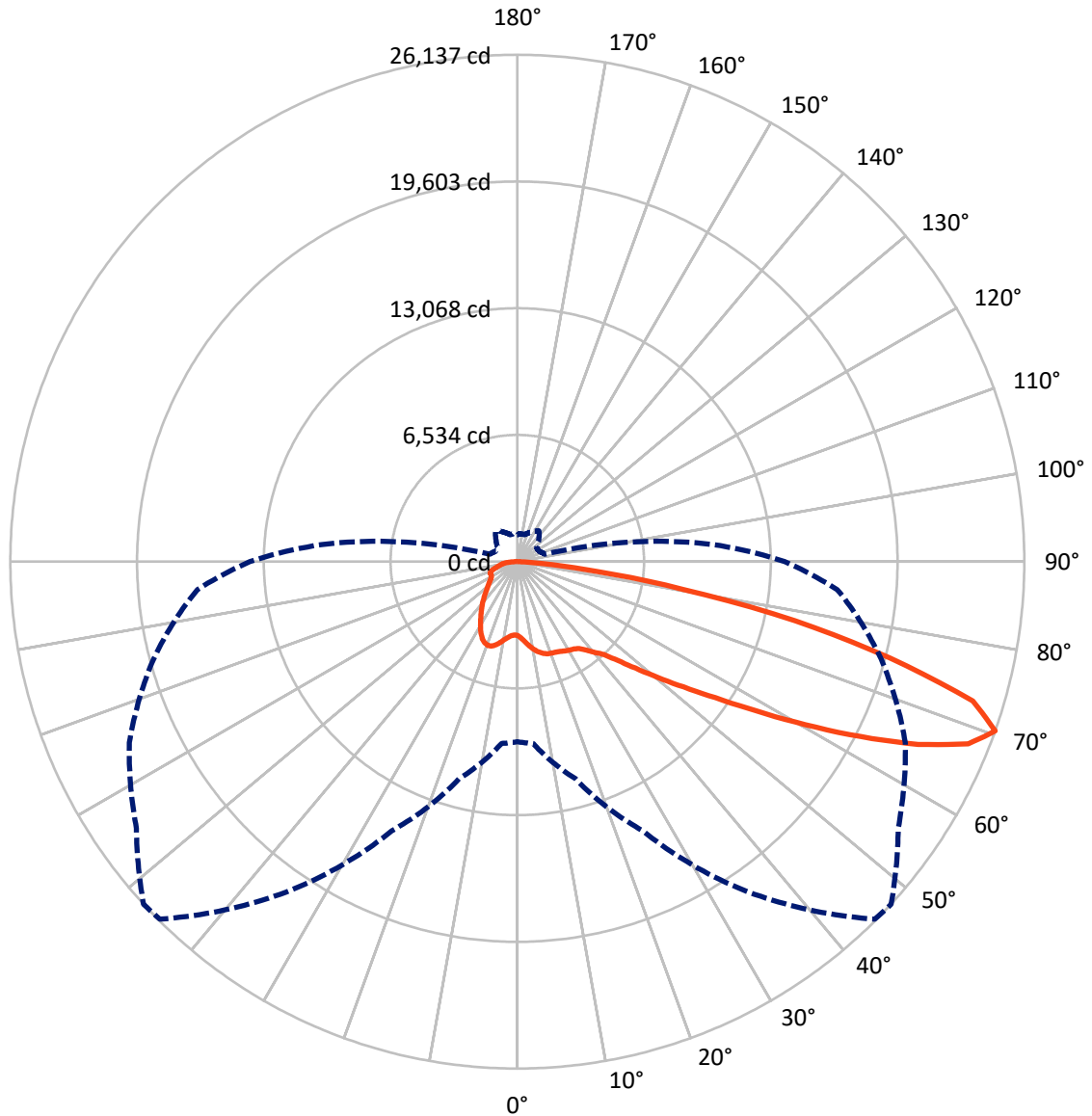
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8592.2	0.0	8592.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29355.8	0.0	29355.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	37948.0	0.0	37948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.0
10°-20°	1312.8	3.5
20°-30°	2183.1	5.8
30°-40°	3094.2	8.2
40°-50°	4567.8	12.0
50°-60°	7911.6	20.8
60°-70°	11175.3	29.4
70°-80°	6424.2	16.9
80°-90°	886.4	2.3
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°	37948.0	100.0
0°-180°	37948.0	100.0

Coefficient of Utilization



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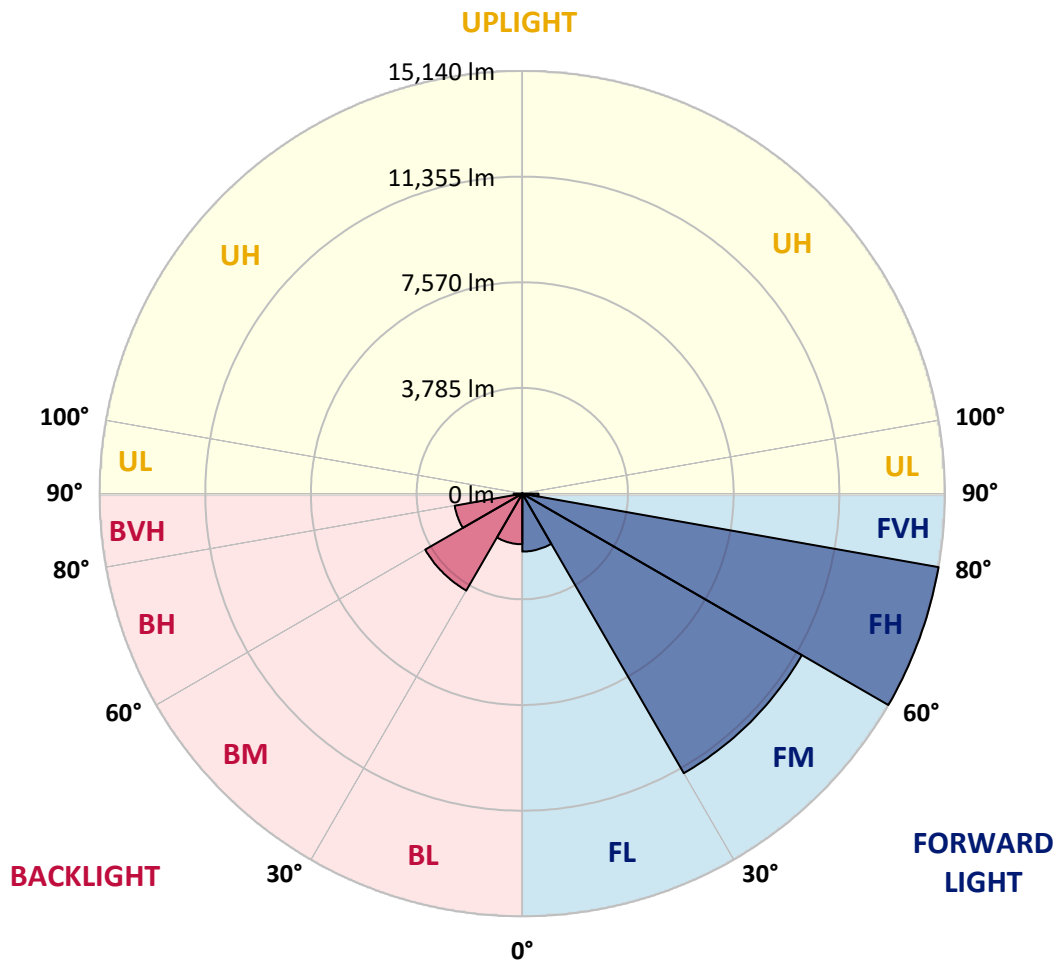
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2075.1	5.5			
FM	(30°-60°)	11562.0	30.5			
FH	(60°-80°)	15139.7	39.9			G5
FVH	(80°-90°)	579.0	1.5			G4/750
BL	(0°-30°)	1813.4	4.8	B3/2500		
BM	(30°-60°)	4011.5	10.6	B3/5000		
BH	(60°-80°)	2459.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	307.4	0.8			G3/500
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5
2.5°	4055.2	4041.0	4039.0	4008.5	3992.3	3961.8	3949.6	3921.2	3886.7	3852.2	3819.7
5°	4374.0	4374.0	4359.8	4317.2	4250.2	4181.1	4150.7	4095.8	3998.4	3919.2	3852.2
7.5°	4701.0	4705.0	4676.6	4613.7	4518.2	4406.5	4378.1	4296.9	4158.8	4043.0	3943.5
10°	4983.2	4983.2	4944.7	4859.4	4739.6	4617.7	4589.3	4497.9	4343.6	4199.4	4069.4
12.5°	5198.5	5198.5	5147.7	5036.0	4906.1	4796.4	4763.9	4676.6	4532.4	4372.0	4207.5
15°	5338.6	5328.5	5271.6	5145.7	5019.8	4924.4	4902.0	4828.9	4696.9	4534.5	4349.7
17.5°	5344.7	5340.6	5285.8	5180.2	5070.6	5005.6	4991.4	4942.6	4839.1	4684.7	4489.8
20°	5226.9	5235.0	5198.5	5123.4	5070.6	5042.1	5036.0	5019.8	4946.7	4802.5	4607.6
22.5°	5101.0	5115.2	5080.7	5040.1	5036.0	5064.5	5068.5	5072.6	5025.9	4885.8	4707.1
25°	5070.6	5080.7	5046.2	5009.6	5032.0	5107.1	5123.4	5139.6	5103.1	4985.3	4824.9
27.5°	5224.9	5216.8	5149.8	5070.6	5084.8	5186.3	5208.6	5226.9	5208.6	5107.1	4971.1
30°	5661.5	5635.1	5501.1	5269.6	5196.5	5267.5	5289.9	5340.6	5340.6	5265.5	5129.5
32.5°	6392.5	6341.8	6096.0	5641.2	5387.3	5344.7	5367.0	5450.3	5492.9	5434.1	5285.8
35°	7279.9	7227.1	6875.8	6264.6	5736.6	5499.0	5492.9	5586.4	5700.1	5568.1	5375.2
37.5°	8171.4	8116.6	7694.2	7007.8	6246.3	5823.9	5787.4	5819.9	5868.6	5627.0	5499.0
40°	9062.8	8997.9	8628.3	7838.4	6869.7	6254.4	6159.0	6012.8	5992.5	5819.9	5738.7
42.5°	9946.2	9887.3	9700.5	8770.4	7617.0	6674.8	6528.6	6276.8	6353.9	6250.4	6179.3
45°	10837.6	10841.7	10642.7	9816.2	8518.6	7450.5	7253.5	6859.6	7042.3	7003.8	7044.4
47.5°	11627.6	11617.4	11546.3	10831.6	9637.5	8449.6	8195.8	7738.9	8051.6	8193.7	8504.4
50°	12393.1	12387.0	12391.1	11982.9	10937.1	9637.5	9357.3	8878.1	9582.7	10076.1	10632.5
52.5°	13489.7	13524.2	13278.5	13170.9	12517.0	11040.7	10732.1	10236.6	11392.0	12169.8	13256.2
55°	14590.3	14561.9	14369.0	14480.7	14170.0	12701.8	12378.9	11985.0	13406.4	14257.3	15889.9
57.5°	15238.1	15248.2	15445.2	15991.5	16210.8	14773.1	14480.7	14176.1	15670.6	16273.7	18233.3
60°	15820.9	15867.6	16434.2	17465.7	18060.7	17317.5	17057.6	16761.1	17748.0	17987.6	20268.0
62.5°	16003.7	16147.8	17136.8	18680.1	19863.9	20188.8	19866.0	19212.1	19725.9	19632.4	21646.9
65°	15091.9	15288.9	17061.6	19134.9	21474.3	22914.0	22708.9	21494.6	21411.3	20848.8	21872.3
67.5°	12691.6	12888.6	15165.0	18180.5	22140.3	25273.6	25068.5	23159.7	22434.8	20962.5	20166.5
70°	9286.2	9410.1	11587.0	15307.1	20802.1	26065.6	26136.7	23972.0	22069.2	19417.2	16558.0
72.5°	5350.8	5624.9	7150.0	10768.6	16994.6	24063.3	24556.8	22282.5	19758.3	16198.6	11576.8
75°	2300.7	2306.8	3305.9	5939.7	11509.8	19342.1	19819.3	18470.9	15516.3	11201.1	6181.3
77.5°	1094.5	1114.8	1454.0	2652.0	6335.7	13363.8	14651.2	13049.0	9923.8	5381.3	2335.3
80°	710.7	724.9	889.4	1315.9	3106.9	7749.0	8646.6	7527.7	4378.1	1923.0	1007.2
82.5°	430.5	434.6	595.0	804.1	1709.8	3509.0	4136.5	3267.3	1868.2	1151.4	593.0
85°	262.0	264.0	361.5	497.5	1037.7	1212.3	1244.8	1234.6	1096.6	753.4	316.8
87.5°	125.9	130.0	186.8	235.6	408.2	375.7	355.4	412.2	517.8	406.1	136.1
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°	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5	3809.5
2.5°	3805.5	3799.4	3785.2	3779.1	3775.0	3777.0	3775.0	3775.0	3777.0	3777.0	3777.0
5°	3823.7	3813.6	3791.2	3791.2	3803.4	3831.9	3858.3	3878.6	3900.9	3898.9	3898.9
7.5°	3902.9	3884.7	3858.3	3866.4	3896.8	3941.5	3988.2	4032.9	4077.6	4081.6	4079.6
10°	4018.7	4000.4	3972.0	3982.1	4030.9	4097.9	4156.8	4221.7	4270.5	4284.7	4280.6
12.5°	4150.7	4114.1	4089.8	4118.2	4195.3	4284.7	4341.6	4390.3	4424.8	4445.1	4437.0
15°	4284.7	4250.2	4221.7	4280.6	4374.0	4457.3	4485.7	4493.9	4499.9	4520.3	4516.2
17.5°	4414.7	4368.0	4357.8	4435.0	4524.3	4560.9	4544.6	4510.1	4483.7	4499.9	4497.9
20°	4530.4	4493.9	4489.8	4567.0	4601.5	4567.0	4497.9	4437.0	4390.3	4394.4	4392.3
22.5°	4640.1	4611.6	4615.7	4648.2	4593.4	4475.6	4361.9	4278.6	4227.8	4238.0	4244.1
25°	4761.9	4733.5	4743.6	4690.8	4510.1	4305.0	4140.5	4069.4	4049.1	4069.4	4083.7
27.5°	4920.3	4902.0	4895.9	4692.9	4361.9	4053.2	3866.4	3840.0	3858.3	3902.9	3925.3
30°	5090.9	5090.9	5058.4	4658.3	4158.8	3750.6	3588.2	3592.2	3655.2	3718.1	3740.5
32.5°	5255.4	5289.9	5188.3	4564.9	3896.8	3456.2	3332.3	3336.4	3391.2	3468.4	3488.7
35°	5391.4	5490.9	5300.0	4394.4	3588.2	3208.4	3115.0	3060.2	3062.2	3121.1	3137.4
37.5°	5578.2	5763.0	5365.0	4140.5	3259.2	2997.3	2891.7	2796.2	2733.3	2708.9	2708.9
40°	5903.1	6175.2	5381.3	3764.8	2948.5	2796.2	2646.0	2532.2	2410.4	2300.7	2280.4
42.5°	6453.4	6796.6	5348.8	3332.3	2668.3	2574.9	2428.7	2288.6	2120.0	1965.7	1953.5
45°	7428.2	7604.8	5261.4	2883.5	2418.5	2361.7	2219.5	2067.2	1888.5	1750.4	1740.3
47.5°	8989.7	8740.0	5145.7	2485.5	2191.1	2174.8	2065.2	1888.5	1709.8	1614.4	1604.2
50°	11270.2	10527.0	5129.5	2197.2	2008.3	2016.4	1927.1	1764.6	1608.3	1529.1	1516.9
52.5°	14015.6	12685.5	5237.1	1994.1	1847.9	1878.4	1833.7	1683.4	1545.3	1478.3	1466.1
55°	16679.9	14626.9	5302.1	1835.7	1697.6	1754.5	1760.6	1634.7	1508.8	1441.8	1433.6
57.5°	18842.5	16088.9	5013.7	1691.5	1567.7	1655.0	1699.7	1606.3	1490.5	1439.7	1431.6
60°	20347.2	16779.4	4193.3	1563.6	1472.2	1575.8	1677.3	1608.3	1535.2	1541.3	1545.3
62.5°	20826.5	16472.7	3145.5	1468.2	1407.2	1549.4	1713.9	1691.5	1616.4	1663.1	1671.2
65°	20032.5	15205.6	2280.4	1393.0	1350.4	1567.7	1823.5	1752.5	1588.0	1622.5	1622.5
67.5°	17374.3	13099.8	1774.8	1324.0	1285.4	1602.2	1933.2	1746.4	1521.0	1561.6	1525.0
70°	13782.1	10133.0	1478.3	1246.8	1216.4	1551.4	1943.3	1683.4	1441.8	1449.9	1380.9
72.5°	9146.1	6662.6	1271.2	1173.7	1110.8	1395.1	1860.1	1602.2	1364.6	1317.9	1248.9
75°	4481.7	3322.2	1108.7	1082.3	972.7	1214.3	1746.4	1525.0	1281.3	1208.2	1169.7
77.5°	1736.2	1413.3	946.3	966.6	846.8	1070.2	1596.1	1415.4	1171.7	1072.2	1041.7
80°	842.7	802.1	775.7	806.2	696.5	911.8	1458.0	1319.9	1070.2	960.5	915.8
82.5°	523.9	495.5	595.0	627.5	536.1	832.6	1382.9	1238.7	942.2	796.0	759.5
85°	266.0	284.3	398.0	428.5	383.8	662.0	1139.2	930.0	680.3	564.5	568.6
87.5°	101.5	136.1	209.2	225.4	205.1	349.3	627.5	542.2	436.6	296.5	274.1
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)