

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: P456012

Luminaire Tested: **GALN-SA7B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456012
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-SA7B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32869 lumens
Efficiency: N/A
Efficacy: 114.9 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

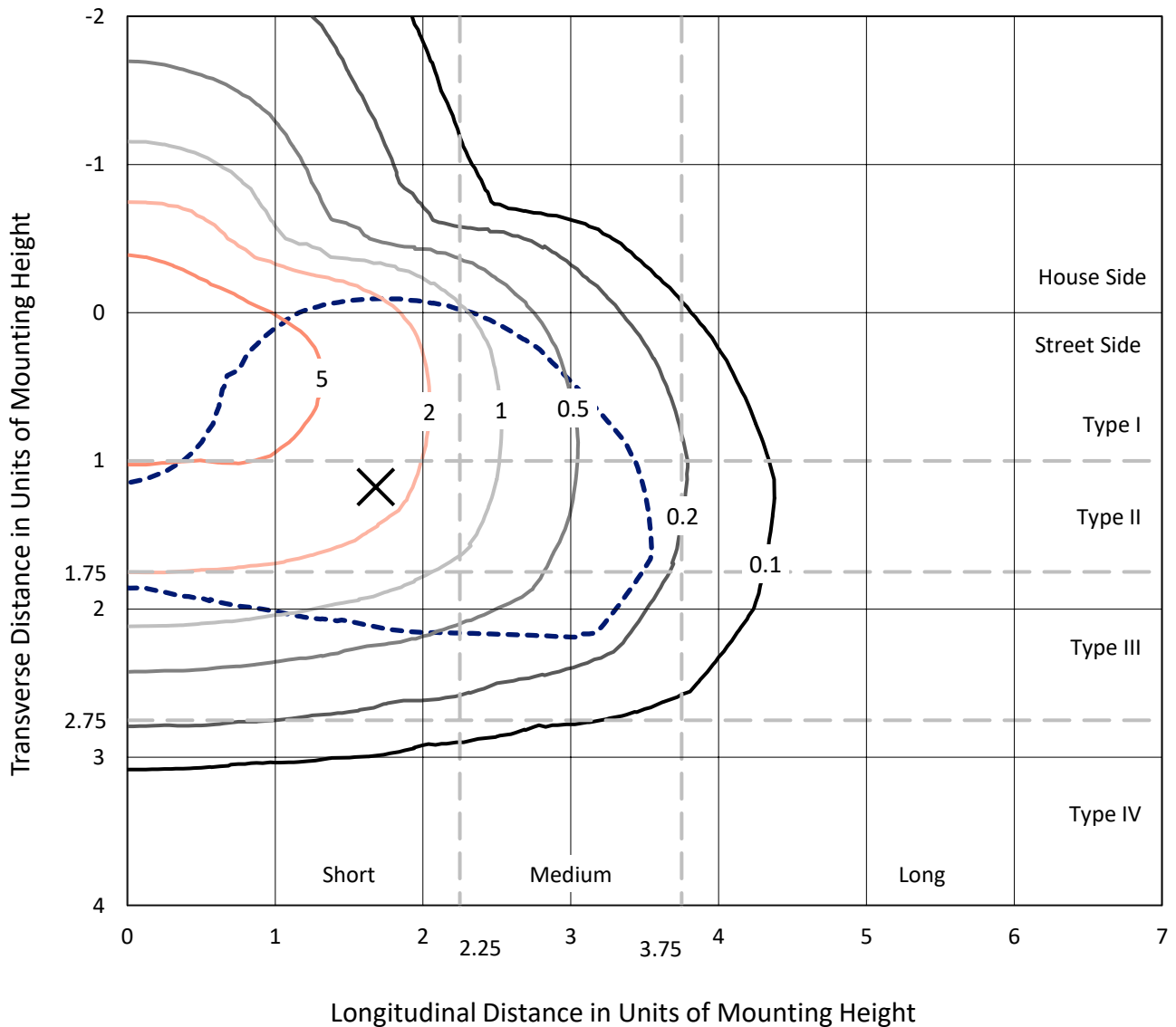
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

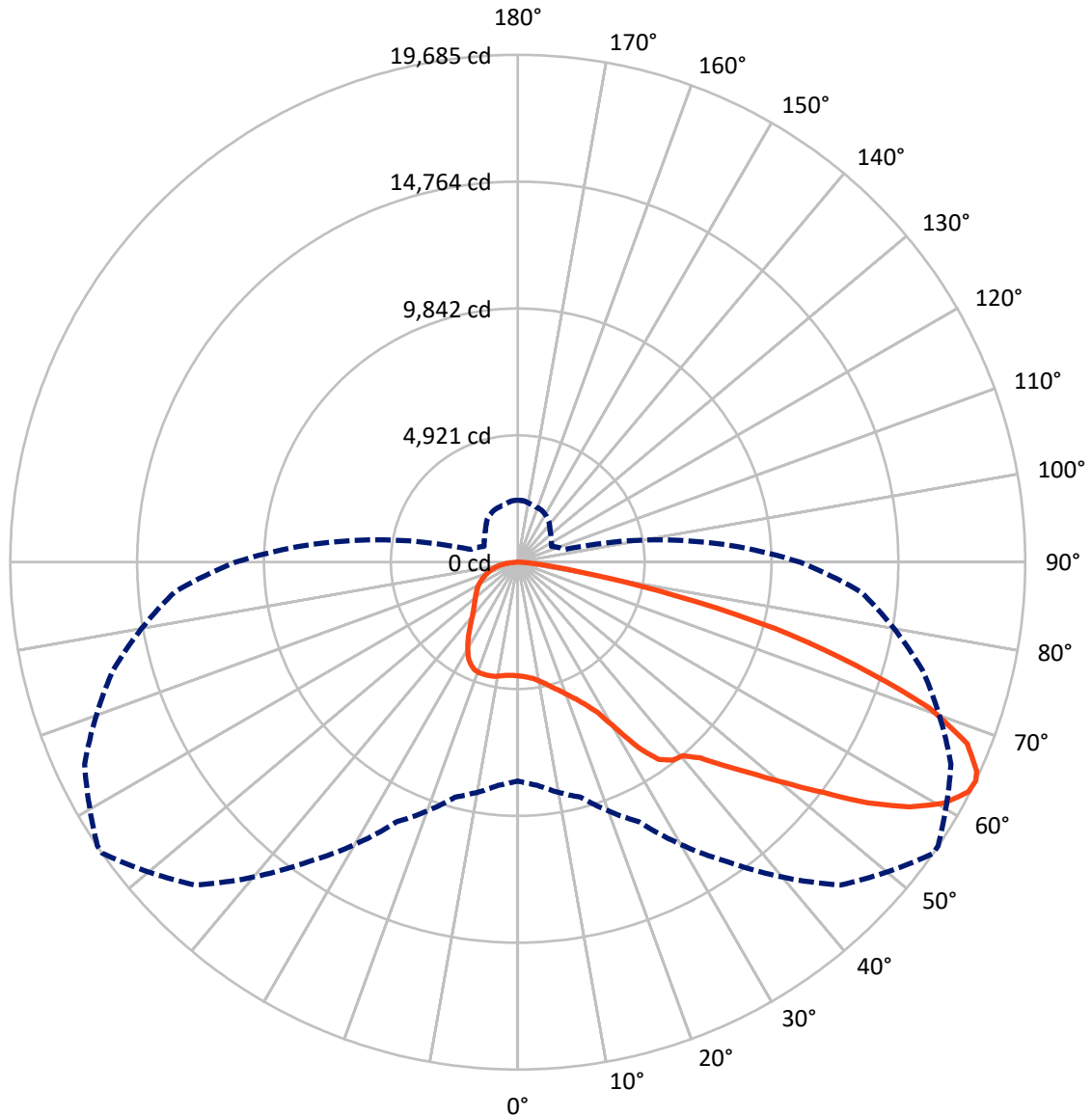
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	7984.5	0.0	7984.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24884.5	0.0	24884.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	32869.0	0.0	32869.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.0	1.3
10°-20°	1353.6	4.1
20°-30°	2409.7	7.3
30°-40°	3707.6	11.3
40°-50°	5255.8	16.0
50°-60°	7607.6	23.1
60°-70°	7873.1	24.0
70°-80°	3687.0	11.2
80°-90°	545.8	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°	32869.0	100.0
0°-180°	32869.0	100.0

Coefficient of Utilization



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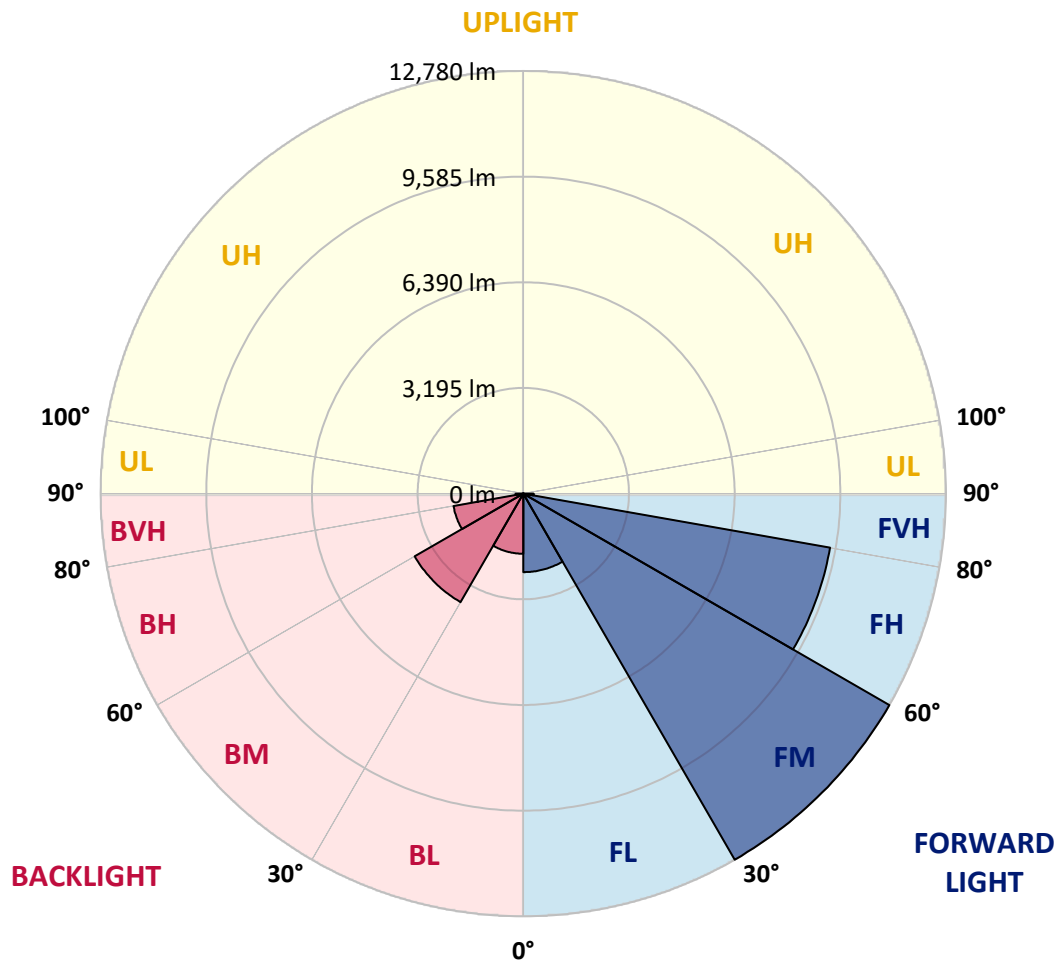
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.7	7.2			
FM	(30°-60°)	12780.4	38.9			
FH	(60°-80°)	9417.9	28.7			G4/12000
FVH	(80°-90°)	312.5	1.0			G3/500
BL	(0°-30°)	1818.6	5.5	B3/2500		
BM	(30°-60°)	3790.6	11.5	B3/5000		
BH	(60°-80°)	2142.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	233.3	0.7			G3/500
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°	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0
2.5°	4459.5	4457.7	4463.2	4457.7	4461.3	4448.5	4443.0	4446.7	4441.2	4432.0	4415.5
5°	4514.5	4512.6	4514.5	4507.1	4510.8	4503.5	4490.6	4494.3	4485.1	4465.0	4441.2
7.5°	4607.9	4600.6	4600.6	4598.7	4591.4	4580.4	4571.3	4567.6	4558.4	4532.8	4496.1
10°	4728.8	4728.8	4730.7	4716.0	4725.2	4705.0	4695.8	4694.0	4662.9	4629.9	4578.6
12.5°	4888.2	4897.4	4891.9	4884.6	4880.9	4873.6	4842.4	4849.7	4814.9	4758.1	4695.8
15°	5086.1	5100.8	5091.6	5087.9	5078.8	5051.3	5038.5	5033.0	4987.2	4904.7	4822.3
17.5°	5348.1	5329.8	5322.4	5313.3	5274.8	5254.7	5232.7	5229.0	5188.7	5091.6	4963.3
20°	5577.1	5602.8	5588.1	5579.0	5540.5	5502.0	5485.5	5480.0	5445.2	5338.9	5133.7
22.5°	5850.1	5855.6	5861.1	5839.1	5820.8	5791.5	5762.2	5753.0	5740.2	5630.3	5379.2
25°	6141.4	6163.4	6145.1	6123.1	6101.1	6099.3	6126.8	6123.1	6117.6	6011.3	5705.4
27.5°	6616.0	6636.1	6641.6	6617.8	6533.5	6540.8	6603.1	6623.3	6707.6	6531.7	6124.9
30°	6883.5	6903.6	6949.4	7039.2	7172.9	7290.2	7440.4	7486.2	7566.9	7235.2	6623.3
32.5°	7048.3	7055.7	7138.1	7304.9	7706.1	8144.0	8552.6	8569.0	8620.3	8155.0	7079.5
35°	7308.5	7314.0	7380.0	7563.2	8034.1	8763.3	9395.4	9415.5	9373.4	8440.8	7292.0
37.5°	7629.1	7643.8	7685.9	7838.0	8400.5	9281.8	9745.3	9730.6	9356.9	8668.0	7667.6
40°	8096.3	8096.3	8046.9	8252.1	8787.1	9578.6	9868.1	9842.4	9743.5	9325.7	8239.3
42.5°	8508.6	8501.3	8618.5	8757.8	9270.8	10036.6	10382.9	10425.0	10588.1	10152.0	8889.7
45°	9045.4	9078.4	9144.3	9397.2	10093.4	10819.0	11266.0	11306.3	11537.2	11124.9	9650.0
47.5°	9587.7	9598.7	9805.8	10142.9	11112.1	11879.8	12246.2	12312.2	12522.9	12262.7	10469.0
50°	9972.5	10076.9	10408.5	10939.9	12161.9	13173.3	13459.1	13537.9	13909.8	13501.2	11423.6
52.5°	10379.2	10481.8	10886.7	11696.6	13367.5	14496.1	14847.9	14901.0	15287.6	14754.4	12400.1
55°	10727.3	10822.6	11282.5	12367.1	14327.6	15846.4	16484.0	16421.7	16606.8	15720.0	13153.1
57.5°	10784.1	10861.1	11440.1	12795.9	15049.4	17004.3	17918.6	17955.2	17740.9	16441.9	13774.2
60°	10344.4	10502.0	11167.1	12750.1	15373.7	17810.5	18988.6	19014.2	18406.0	16812.0	14021.6
62.5°	9565.7	9549.3	10353.6	12013.5	14919.3	17993.7	19618.9	19591.4	18666.1	16634.3	13781.6
64°	8490.3	8688.1	9439.3	11108.4	14186.5	17711.6	19684.8	19670.2	18541.5	16264.2	13373.0
65°	7834.3	7823.4	8565.4	10368.2	13457.3	17286.5	19567.6	19547.4	18281.4	15932.5	13056.0
67.5°	5655.9	5681.6	6414.4	8001.1	10939.9	15624.7	18803.5	18728.4	17255.4	14833.2	11850.5
70°	3426.2	3440.8	4016.1	5307.8	7852.7	12631.0	16949.4	16953.0	15685.2	13191.6	10086.1
72.5°	1804.7	1843.2	2074.0	3013.9	4769.1	8862.2	13750.4	14076.5	13466.4	11258.7	7968.1
75°	1004.0	1009.5	1172.6	1485.9	2433.1	4959.7	10335.3	10428.7	10661.4	9061.9	5892.3
77.5°	765.8	776.8	828.1	960.1	1324.7	2299.4	6255.0	6724.1	7513.7	6388.8	3362.0
80°	621.1	632.1	676.1	754.9	881.3	1090.1	2905.8	3158.7	4021.6	2836.2	1311.8
82.5°	483.7	476.4	533.2	584.5	641.3	644.9	1192.7	1319.2	1638.0	1220.2	568.0
85°	359.1	359.1	404.9	393.9	414.1	377.4	525.8	580.8	655.9	518.5	263.8
87.5°	142.9	157.6	265.7	238.2	185.0	148.4	194.2	205.2	227.2	203.4	109.9
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°	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0
2.5°	4417.4	4422.9	4410.0	4400.9	4397.2	4391.7	4386.2	4388.0	4395.4	4402.7	4400.9
5°	4439.3	4441.2	4419.2	4408.2	4400.9	4393.5	4393.5	4399.0	4413.7	4424.7	4424.7
7.5°	4494.3	4494.3	4463.2	4443.0	4432.0	4419.2	4415.5	4417.4	4428.3	4443.0	4444.8
10°	4580.4	4573.1	4532.8	4501.6	4481.5	4450.3	4422.9	4408.2	4413.7	4422.9	4422.9
12.5°	4684.9	4664.7	4613.4	4571.3	4521.8	4463.2	4406.4	4377.0	4375.2	4384.4	4380.7
15°	4796.6	4774.6	4703.2	4626.2	4540.1	4454.0	4386.2	4344.1	4311.1	4301.9	4322.1
17.5°	4926.7	4880.9	4782.0	4675.7	4547.4	4435.7	4329.4	4243.3	4184.7	4168.2	4173.7
20°	5084.3	5023.8	4890.1	4723.3	4541.9	4369.7	4204.8	4089.4	3994.1	3964.8	3968.5
22.5°	5302.3	5197.9	5001.8	4747.1	4496.1	4245.1	4016.1	3865.9	3750.4	3704.6	3732.1
25°	5549.6	5436.0	5108.1	4741.7	4377.0	4045.4	3792.6	3596.5	3492.1	3424.3	3439.0
27.5°	5890.4	5688.9	5221.7	4692.2	4206.7	3801.7	3508.6	3323.6	3228.3	3193.5	3210.0
30°	6326.5	6016.8	5344.4	4558.4	3937.3	3493.9	3222.8	3101.9	3045.1	3001.1	3015.7
32.5°	6641.6	6247.7	5371.9	4333.1	3646.0	3213.6	3028.6	2938.8	2876.5	2834.4	2843.5
35°	6867.0	6443.7	5359.1	4056.4	3341.9	2982.8	2874.7	2801.4	2700.6	2609.0	2592.5
37.5°	7169.3	6689.2	5265.7	3754.1	3041.4	2827.0	2750.1	2614.5	2469.8	2347.0	2341.5
40°	7632.8	6976.9	5065.9	3398.7	2784.9	2711.6	2618.2	2442.3	2286.5	2187.6	2180.3
42.5°	8111.0	7242.6	4794.8	3024.9	2574.2	2590.7	2477.1	2303.0	2207.8	2143.6	2136.3
45°	8695.5	7530.2	4501.6	2700.6	2418.5	2477.1	2354.3	2253.6	2196.8	2154.6	2143.6
47.5°	9327.6	7825.2	4171.8	2409.3	2286.5	2372.7	2303.0	2257.2	2226.1	2196.8	2183.9
50°	10009.1	8155.0	3862.2	2174.8	2167.5	2264.6	2297.5	2281.0	2262.7	2253.6	2242.6
52.5°	10756.7	8492.1	3602.0	2009.9	2063.0	2187.6	2299.4	2312.2	2312.2	2306.7	2299.4
55°	11262.3	8726.6	3338.2	1876.1	1956.8	2125.3	2295.7	2345.2	2363.5	2356.2	2348.8
57.5°	11636.1	8854.9	3006.6	1760.7	1867.0	2064.9	2275.6	2348.8	2367.2	2376.3	2372.7
60°	11713.0	8735.8	2572.4	1639.8	1769.9	1976.9	2202.3	2293.9	2317.7	2374.5	2380.0
62.5°	11366.8	8369.3	2140.0	1520.7	1650.8	1843.2	2103.3	2231.6	2279.2	2367.2	2376.3
64°	10941.7	7958.9	1900.0	1445.6	1573.8	1768.0	2053.9	2215.1	2277.4	2394.6	2402.0
65°	10630.2	7660.3	1749.7	1397.9	1524.4	1718.6	2026.4	2220.6	2293.9	2436.8	2447.8
67.5°	9483.3	6632.4	1447.4	1286.2	1407.1	1634.3	2031.9	2266.4	2290.2	2453.3	2451.4
70°	7847.2	5280.3	1212.9	1183.6	1293.5	1566.5	2009.9	2193.1	2194.9	2303.0	2277.4
72.5°	5875.8	3902.5	1051.7	1077.3	1167.1	1405.3	1898.1	2094.2	2063.0	2077.7	2052.0
75°	4036.3	2581.5	905.1	963.7	1035.2	1242.2	1740.6	1901.8	1852.3	1834.0	1815.7
77.5°	2154.6	1427.3	753.0	852.0	899.6	1073.7	1518.9	1674.6	1623.3	1551.8	1528.0
80°	872.1	672.4	606.4	705.4	732.9	864.8	1264.2	1361.3	1322.8	1198.2	1157.9
82.5°	437.9	403.1	476.4	555.1	557.0	617.4	939.9	1031.5	945.4	793.3	758.5
85°	229.0	236.3	328.0	390.3	344.4	333.5	564.3	624.8	573.5	498.3	448.9
87.5°	82.4	95.3	172.2	170.4	120.9	64.1	124.6	60.5	33.0	20.2	25.7
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)