

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: P459347

Luminaire Tested: **GALN-SA8A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459347
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-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34113 lumens
Efficiency: N/A
Efficacy: 139.8 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

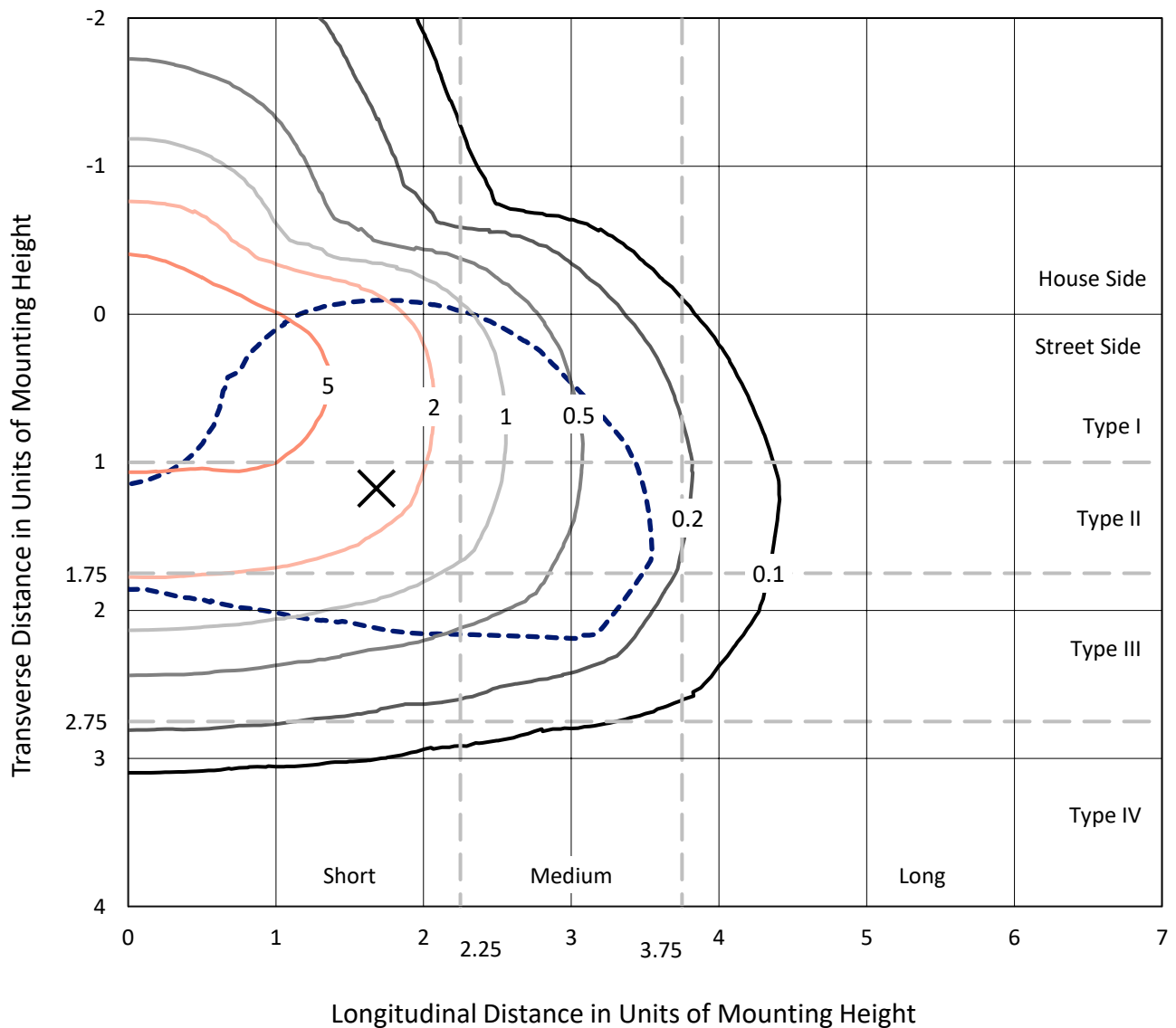
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

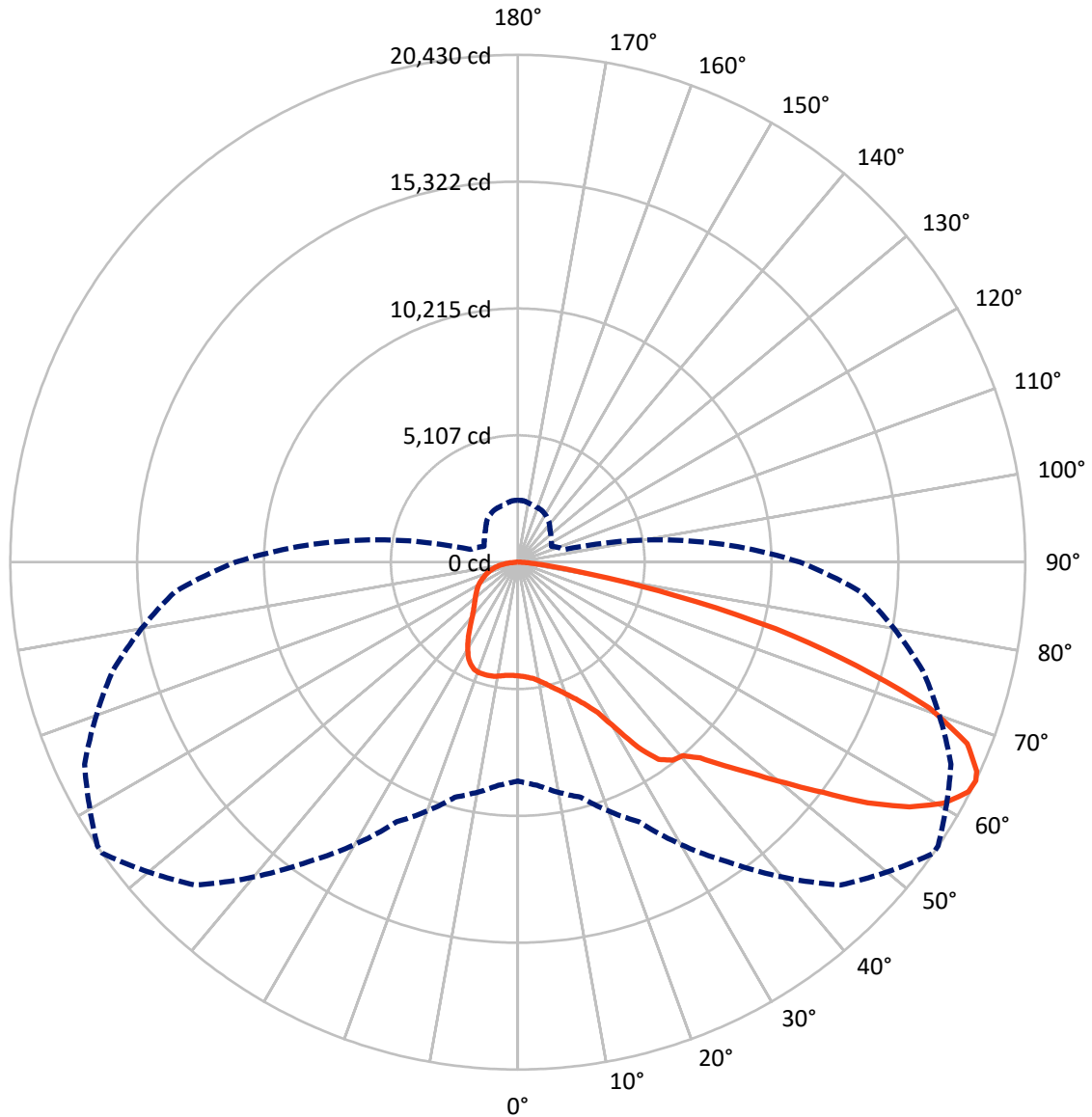
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	8286.7	0.0	8286.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	25826.3	0.0	25826.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	34113.0	0.0	34113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.2	1.3
10°-20°	1404.8	4.1
20°-30°	2500.9	7.3
30°-40°	3847.9	11.3
40°-50°	5454.7	16.0
50°-60°	7895.5	23.1
60°-70°	8171.0	24.0
70°-80°	3826.5	11.2
80°-90°	566.5	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°	34113.0	100.0
0°-180°	34113.0	100.0

Coefficient of Utilization



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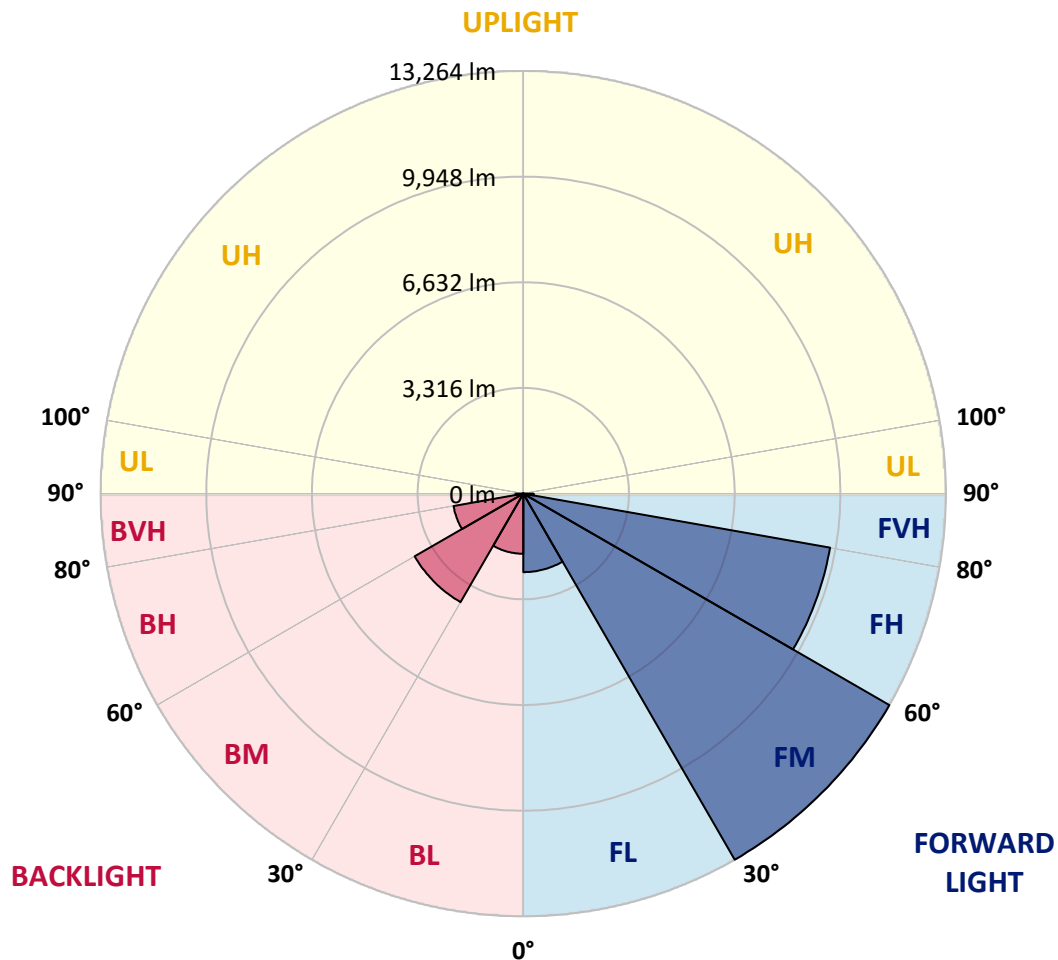
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2463.5	7.2			
FM	(30°-60°)	13264.1	38.9			
FH	(60°-80°)	9774.4	28.7			G4/12000
FVH	(80°-90°)	324.3	1.0			G3/500
BL	(0°-30°)	1887.4	5.5	B3/2500		
BM	(30°-60°)	3934.0	11.5	B3/5000		
BH	(60°-80°)	2223.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	242.1	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°	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9
2.5°	4628.3	4626.4	4632.1	4626.4	4630.2	4616.9	4611.2	4615.0	4609.3	4599.8	4582.6
5°	4685.3	4683.4	4685.3	4677.7	4681.5	4673.9	4660.6	4664.4	4654.9	4634.0	4609.3
7.5°	4782.3	4774.7	4774.7	4772.8	4765.2	4753.8	4744.3	4740.5	4731.0	4704.3	4666.3
10°	4907.8	4907.8	4909.7	4894.5	4904.0	4883.1	4873.6	4871.7	4839.3	4805.1	4751.9
12.5°	5073.2	5082.7	5077.0	5069.4	5065.6	5058.0	5025.7	5033.3	4997.2	4938.2	4873.6
15°	5278.6	5293.8	5284.3	5280.5	5271.0	5242.5	5229.2	5223.4	5175.9	5090.3	5004.8
17.5°	5550.5	5531.5	5523.9	5514.4	5474.4	5453.5	5430.7	5426.9	5385.1	5284.3	5151.2
20°	5788.2	5814.8	5799.6	5790.1	5750.2	5710.2	5693.1	5687.4	5651.3	5541.0	5328.0
22.5°	6071.5	6077.2	6082.9	6060.1	6041.1	6010.7	5980.2	5970.7	5957.4	5843.3	5582.8
25°	6373.9	6396.7	6377.7	6354.8	6332.0	6330.1	6358.6	6354.8	6349.1	6238.9	5921.3
27.5°	6866.4	6887.3	6893.0	6868.3	6780.8	6788.4	6853.0	6874.0	6961.4	6778.9	6356.7
30°	7144.0	7164.9	7212.4	7305.6	7444.4	7566.1	7722.0	7769.6	7853.2	7509.1	6874.0
32.5°	7315.1	7322.7	7408.3	7581.3	7997.8	8452.2	8876.2	8893.4	8946.6	8463.6	7347.4
35°	7585.1	7590.8	7659.3	7849.4	8338.1	9094.9	9750.9	9771.9	9728.1	8760.3	7568.0
37.5°	7917.9	7933.1	7976.8	8134.7	8718.4	9633.1	10114.1	10098.9	9711.0	8996.0	7957.8
40°	8402.8	8402.8	8351.4	8564.4	9119.6	9941.1	10241.5	10214.9	10112.2	9678.7	8551.1
42.5°	8830.6	8823.0	8944.7	9089.2	9621.6	10416.5	10775.9	10819.6	10988.8	10536.3	9226.1
45°	9387.8	9422.0	9490.4	9752.8	10475.4	11228.4	11692.4	11734.2	11973.8	11546.0	10015.3
47.5°	9950.6	9962.0	10176.9	10526.8	11532.7	12329.4	12709.7	12778.1	12996.8	12726.8	10865.2
50°	10349.9	10458.3	10802.5	11353.9	12622.2	13671.9	13968.5	14050.3	14436.3	14012.2	11855.9
52.5°	10772.1	10878.5	11298.8	12139.2	13873.4	15044.7	15409.8	15465.0	15866.2	15312.9	12869.4
55°	11133.3	11232.2	11709.5	12835.2	14869.8	16446.2	17107.9	17043.2	17235.3	16315.0	13650.9
57.5°	11192.3	11272.2	11873.0	13280.1	15619.0	17647.9	18596.8	18634.8	18412.3	17064.2	14295.6
60°	10735.9	10899.5	11589.7	13232.6	15955.6	18484.6	19707.3	19733.9	19102.6	17448.3	14552.3
62.5°	9927.8	9910.7	10745.4	12468.2	15484.0	18674.7	20361.4	20332.8	19372.6	17263.8	14303.2
64°	8811.6	9017.0	9796.6	11528.9	14723.4	18381.9	20429.8	20414.6	19243.3	16879.7	13879.1
65°	8130.9	8119.4	8889.6	10760.6	13966.6	17940.7	20308.1	20287.2	18973.3	16535.5	13550.2
67.5°	5870.0	5896.6	6657.2	8303.9	11353.9	16216.1	19515.2	19437.2	17908.4	15394.6	12299.0
70°	3555.8	3571.0	4168.1	5508.7	8149.9	13109.0	17590.9	17594.7	16278.8	13690.9	10467.8
72.5°	1873.0	1912.9	2152.5	3128.0	4949.6	9197.6	14270.8	14609.3	13976.1	11684.8	8269.7
75°	1042.0	1047.7	1217.0	1542.1	2525.2	5147.4	10726.4	10823.4	11064.9	9404.9	6115.3
77.5°	794.8	806.2	859.5	996.4	1374.8	2386.4	6491.8	6978.5	7798.1	6630.6	3489.3
80°	644.6	656.0	701.7	783.4	914.6	1131.4	3015.8	3278.2	4173.8	2943.5	1361.5
82.5°	502.0	494.4	553.3	606.6	665.5	669.3	1237.9	1369.1	1700.0	1266.4	589.5
85°	372.7	372.7	420.2	408.8	429.7	391.7	545.7	602.8	680.7	538.1	273.8
87.5°	148.3	163.5	275.7	247.2	192.1	154.0	201.6	213.0	235.8	211.1	114.1
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°	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9	4576.9
2.5°	4584.5	4590.2	4576.9	4567.4	4563.6	4557.9	4552.2	4554.1	4561.7	4569.3	4567.4
5°	4607.4	4609.3	4586.4	4575.0	4567.4	4559.8	4559.8	4565.5	4580.7	4592.1	4592.1
7.5°	4664.4	4664.4	4632.1	4611.2	4599.8	4586.4	4582.6	4584.5	4596.0	4611.2	4613.1
10°	4753.8	4746.2	4704.3	4672.0	4651.1	4618.8	4590.2	4575.0	4580.7	4590.2	4590.2
12.5°	4862.2	4841.2	4788.0	4744.3	4692.9	4632.1	4573.1	4542.7	4540.8	4550.3	4546.5
15°	4978.2	4955.3	4881.2	4801.3	4711.9	4622.6	4552.2	4508.5	4474.3	4464.7	4485.7
17.5°	5113.2	5065.6	4962.9	4852.7	4719.5	4603.6	4493.3	4403.9	4343.0	4325.9	4331.6
20°	5276.7	5213.9	5075.1	4902.1	4713.8	4535.1	4364.0	4244.2	4145.3	4114.9	4118.7
22.5°	5503.0	5394.6	5191.1	4926.8	4666.3	4405.8	4168.1	4012.2	3892.4	3844.9	3873.4
25°	5759.7	5641.8	5301.4	4921.1	4542.7	4198.5	3936.1	3732.7	3624.3	3553.9	3569.1
27.5°	6113.4	5904.2	5419.3	4869.8	4365.9	3945.6	3641.4	3449.3	3350.5	3314.3	3331.4
30°	6565.9	6244.6	5546.7	4731.0	4086.3	3626.2	3344.8	3219.3	3160.3	3114.7	3129.9
32.5°	6893.0	6484.1	5575.2	4497.1	3784.0	3335.2	3143.2	3050.0	2985.4	2941.6	2951.1
35°	7126.9	6687.6	5561.9	4209.9	3468.4	3095.7	2983.5	2907.4	2802.8	2707.8	2690.6
37.5°	7440.6	6942.4	5464.9	3896.2	3156.5	2934.0	2854.2	2713.5	2563.2	2435.8	2430.1
40°	7921.7	7241.0	5257.7	3527.3	2890.3	2814.2	2717.3	2534.7	2373.1	2270.4	2262.8
42.5°	8418.0	7516.7	4976.3	3139.4	2671.6	2688.7	2570.8	2390.2	2291.3	2224.8	2217.2
45°	9024.6	7815.2	4672.0	2802.8	2510.0	2570.8	2443.4	2338.9	2279.9	2236.2	2224.8
47.5°	9680.6	8121.3	4329.7	2500.5	2373.1	2462.5	2390.2	2342.7	2310.3	2279.9	2266.6
50°	10387.9	8463.6	4008.4	2257.1	2249.5	2350.3	2384.5	2367.4	2348.4	2338.9	2327.4
52.5°	11163.8	8813.5	3738.4	2086.0	2141.1	2270.4	2386.4	2399.7	2399.7	2394.0	2386.4
55°	11688.6	9056.9	3464.6	1947.1	2030.8	2205.8	2382.6	2433.9	2452.9	2445.3	2437.7
57.5°	12076.5	9190.0	3120.4	1827.4	1937.6	2143.0	2361.7	2437.7	2456.8	2466.3	2462.5
60°	12156.4	9066.4	2669.7	1701.9	1836.9	2051.7	2285.6	2380.7	2405.4	2464.4	2470.1
62.5°	11797.0	8686.1	2221.0	1578.3	1713.3	1912.9	2182.9	2316.0	2365.5	2456.8	2466.3
64°	11355.8	8260.2	1971.9	1500.3	1633.4	1835.0	2131.6	2298.9	2363.6	2485.3	2492.9
65°	11032.6	7950.2	1815.9	1450.9	1582.1	1783.6	2103.1	2304.6	2380.7	2529.0	2540.4
67.5°	9842.2	6883.5	1502.2	1334.9	1460.4	1696.1	2108.8	2352.2	2376.9	2546.1	2544.2
70°	8144.2	5480.2	1258.8	1228.4	1342.5	1625.8	2086.0	2276.1	2278.0	2390.2	2363.6
72.5°	6098.1	4050.2	1091.5	1118.1	1211.3	1458.5	1970.0	2173.4	2141.1	2156.3	2129.7
75°	4189.0	2679.2	939.3	1000.2	1074.4	1289.2	1806.4	1973.8	1922.4	1903.4	1884.4
77.5°	2236.2	1481.3	781.5	884.2	933.6	1114.3	1576.4	1738.0	1684.7	1610.6	1585.9
80°	905.1	697.9	629.4	732.1	760.6	897.5	1312.0	1412.8	1372.9	1243.6	1201.8
82.5°	454.5	418.3	494.4	576.2	578.1	640.8	975.5	1070.6	981.2	823.4	787.2
85°	237.7	245.3	340.4	405.0	357.5	346.1	585.7	648.4	595.2	517.2	465.9
87.5°	85.6	98.9	178.7	176.8	125.5	66.6	129.3	62.7	34.2	20.9	26.6
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)