

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: P529858

Luminaire Tested: **GALN-SA5A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18624 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

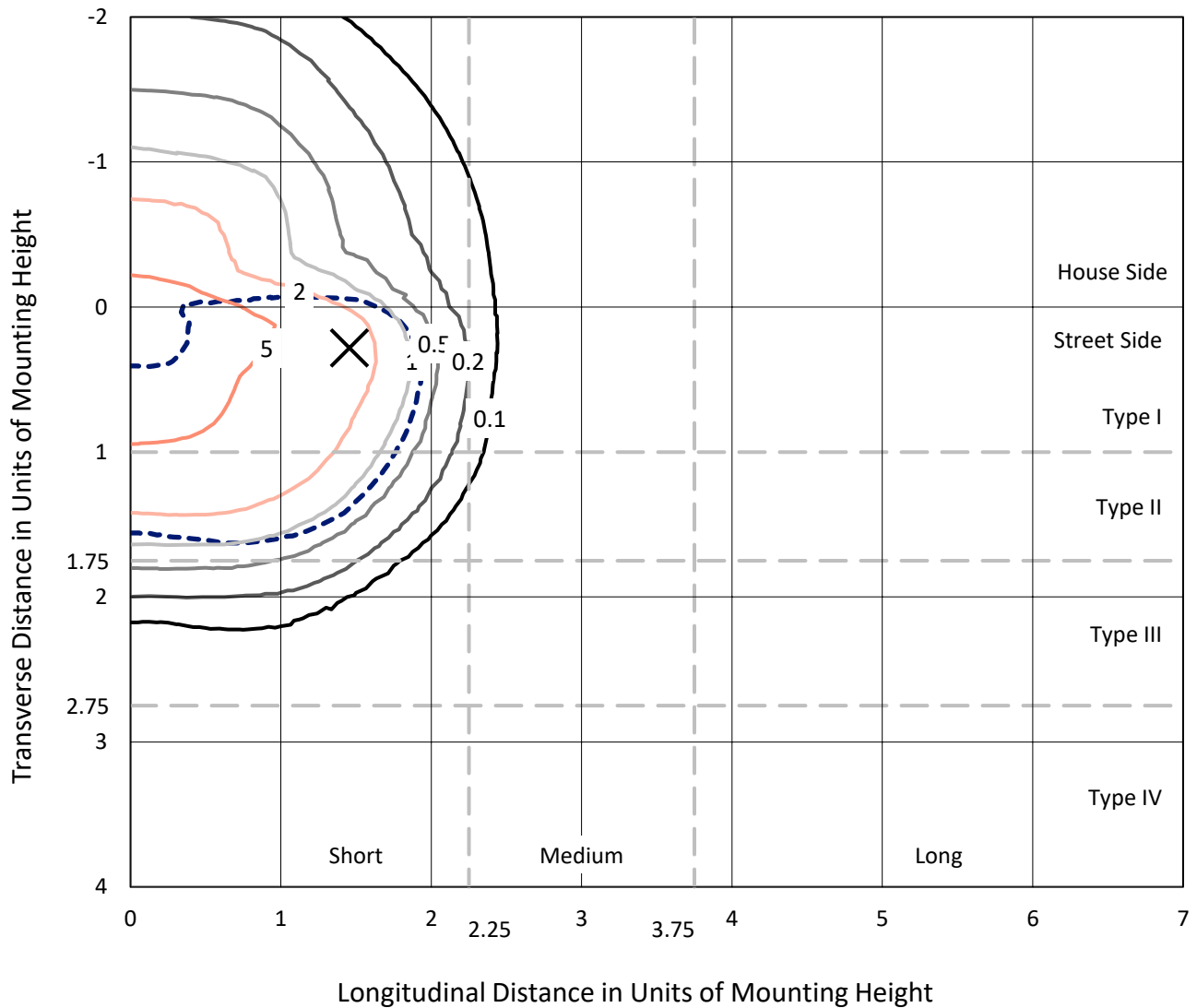
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

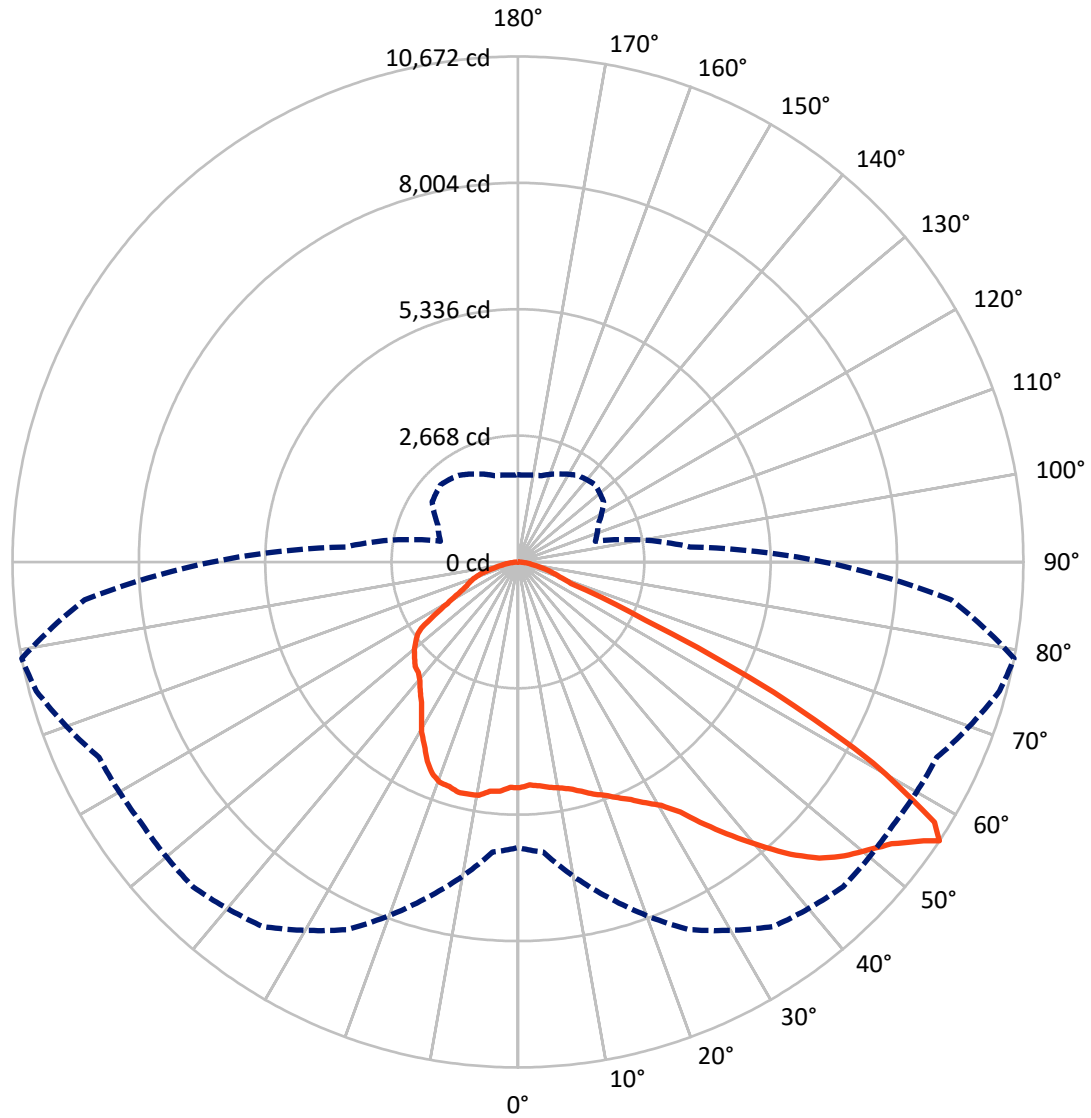
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5500.1	0.0	5500.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13123.9	0.0	13123.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	18624.0	0.0	18624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.2	2.3
10°-20°	1185.7	6.4
20°-30°	2028.4	10.9
30°-40°	3108.8	16.7
40°-50°	4201.6	22.6
50°-60°	4825.7	25.9
60°-70°	2199.7	11.8
70°-80°	542.3	2.9
80°-90°	98.6	0.5
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°	18624.0	100.0
0°-180°	18624.0	100.0



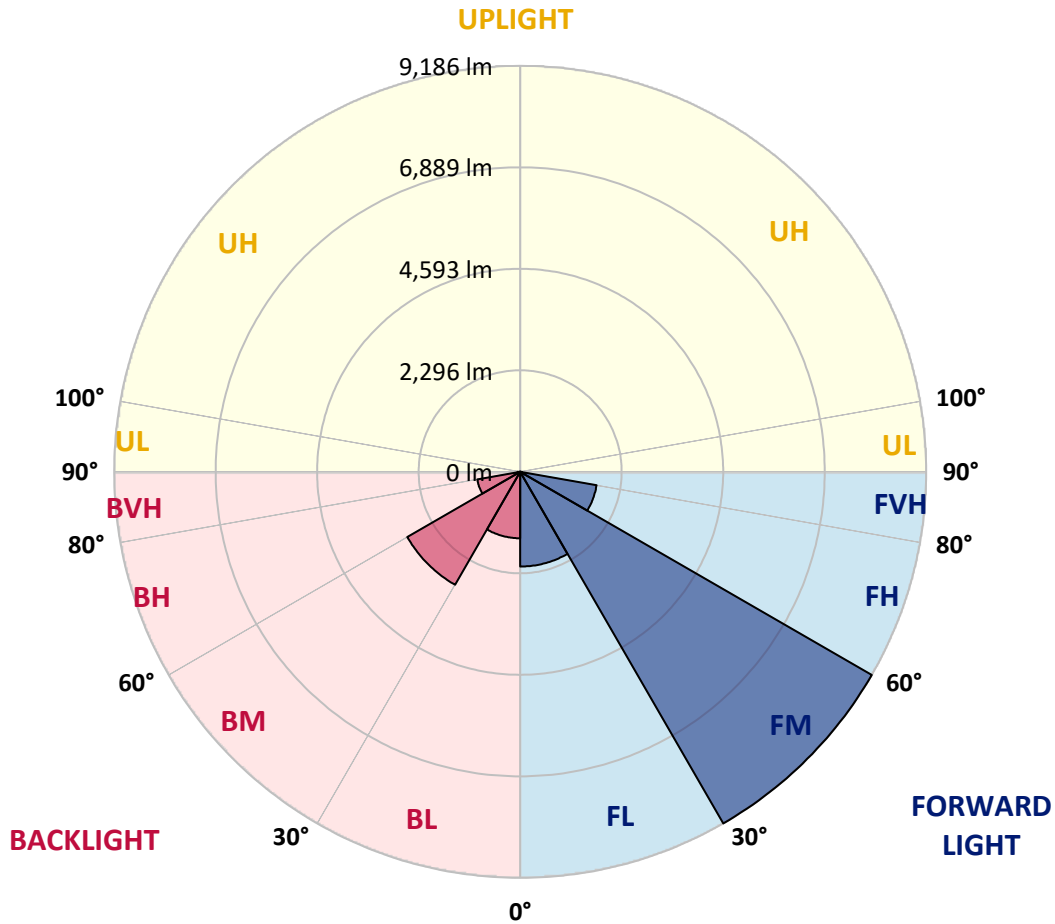
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2142.8	11.5			
FM (30°-60°)	9185.9	49.3			
FH (60°-80°)	1755.8	9.4			G1/1800
FVH (80°-90°)	39.4	0.2			G1/100
BL (0°-30°)	1504.5	8.1	B3/2500		
BM (30°-60°)	2950.2	15.8	B3/5000		
BH (60°-80°)	986.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	59.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4533.2	4521.6	4549.4	4570.3	4595.8	4628.3	4644.5	4653.8	4735.0	4714.1	4776.7
5°	4435.7	4405.6	4426.4	4442.7	4486.8	4526.2	4570.3	4639.9	4714.1	4746.6	4823.1
7.5°	4349.9	4333.6	4329.0	4340.6	4400.9	4452.0	4528.5	4630.6	4751.2	4804.6	4848.7
10°	4208.4	4185.2	4220.0	4296.5	4312.8	4419.5	4507.6	4653.8	4758.2	4851.0	4980.9
12.5°	4145.7	4122.5	4129.5	4173.6	4287.2	4389.3	4493.7	4658.4	4878.8	4915.9	5089.9
15°	4245.5	4222.3	4229.2	4217.6	4326.7	4380.0	4544.8	4751.2	4962.3	5025.0	5210.6
17.5°	4472.8	4475.2	4445.0	4419.5	4394.0	4507.6	4621.3	4806.9	4994.8	5152.6	5291.8
20°	4906.7	4830.1	4769.8	4625.9	4586.5	4635.2	4779.1	4957.7	5127.1	5257.0	5414.7
22.5°	5240.7	5247.7	5161.9	4925.2	4839.4	4860.3	4983.2	5129.4	5315.0	5407.8	5588.7
25°	5725.6	5676.9	5584.1	5396.2	5203.6	5219.9	5310.3	5442.6	5493.6	5558.6	5755.8
27.5°	6168.7	6182.6	5999.3	5823.0	5584.1	5537.7	5700.1	5723.3	5637.4	5760.4	5827.7
30°	6618.8	6607.2	6486.5	6280.1	6045.7	6055.0	6126.9	6013.3	5895.0	5962.2	6008.6
32.5°	7085.1	6952.8	6948.2	6762.6	6584.0	6498.1	6410.0	6465.7	6282.4	6296.3	6252.2
35°	7458.6	7477.1	7370.4	7238.2	7150.0	6999.2	6758.0	6857.7	6822.9	6806.7	6616.5
37.5°	7730.0	7658.1	7711.5	7667.4	7583.9	7395.9	7145.4	7240.5	7256.8	7335.6	7115.2
40°	7952.7	7922.6	8064.1	8087.3	8029.3	7623.3	7173.2	7456.3	7699.9	7871.5	7609.4
42.5°	8059.5	8124.4	8272.9	8451.5	8321.6	7887.8	7317.1	7621.0	8163.8	8435.3	8078.0
45°	8203.3	8119.8	8340.2	8667.3	8669.6	8110.5	7456.3	7843.7	8525.8	8920.1	8398.2
47.5°	8057.1	8098.9	8326.2	8741.5	8848.2	8344.8	7832.1	8159.2	8924.8	9275.1	8695.1
50°	7730.0	7813.5	8228.8	8660.3	8982.8	8593.0	8263.6	8500.2	9293.7	9560.4	8743.8
52.5°	7389.0	7435.4	8085.0	8723.0	9043.1	8913.2	8841.3	8971.2	9743.7	9882.9	8804.1
55°	6461.0	6681.4	7609.4	8695.1	9337.7	9490.8	9435.2	9625.4	10254.1	10393.3	9133.6
56°	6031.8	6147.8	7324.0	8565.2	9395.7	9702.0	9674.1	9760.0	10525.5	10671.7	9184.6
57.5°	5238.4	5247.7	6245.3	7989.9	9177.7	9764.6	9736.8	9804.0	10472.2	10372.4	8736.9
60°	3278.1	3421.9	4250.1	6145.5	7804.3	9059.3	9217.1	8676.6	8829.7	8618.6	6797.4
62.5°	1698.2	1677.3	2227.1	3593.6	5180.4	6486.5	6632.7	6607.2	6370.5	6062.0	4440.4
65°	846.8	851.4	1164.6	1779.4	2654.0	3396.4	3804.7	3848.8	3220.1	2962.6	2106.5
67.5°	614.8	638.0	837.5	1088.0	1250.4	1398.9	1714.4	1682.0	1273.6	1211.0	1122.8
70°	477.9	498.8	679.7	830.5	754.0	754.0	821.3	849.1	907.1	932.6	962.8
72.5°	348.0	364.2	519.7	573.0	494.1	531.3	614.8	679.7	740.1	749.3	784.1
75°	239.0	252.9	341.0	315.5	297.0	366.5	450.1	510.4	554.5	577.7	598.5
77.5°	155.4	160.1	194.9	164.7	190.2	236.6	292.3	343.4	387.4	406.0	410.6
80°	69.6	76.6	83.5	104.4	132.2	169.4	208.8	250.6	278.4	285.4	299.3
82.5°	39.4	39.4	51.0	74.2	97.4	123.0	150.8	181.0	213.4	220.4	218.1
85°	20.9	20.9	30.2	44.1	60.3	71.9	69.6	71.9	76.6	88.2	85.8
87.5°	7.0	7.0	9.3	9.3	11.6	13.9	11.6	16.2	20.9	20.9	20.9
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°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4758.2	4779.1	4751.2	4811.5	4811.5	4799.9	4741.9	4760.5	4774.4	4774.4	4786.0
5°	4848.7	4841.7	4860.3	4788.3	4744.3	4728.0	4632.9	4586.5	4547.1	4544.8	4510.0
7.5°	4899.7	4881.1	4874.2	4820.8	4625.9	4507.6	4303.5	4185.2	4159.6	4069.2	4104.0
10°	4980.9	5015.7	4980.9	4690.9	4419.5	4148.0	3948.5	3765.3	3693.3	3635.3	3600.5
12.5°	5147.9	5131.7	4929.9	4537.8	4157.3	3834.9	3537.9	3345.3	3273.4	3222.4	3217.7
15°	5289.4	5208.3	4899.7	4296.5	3749.0	3405.7	3162.1	3025.2	2992.7	2997.4	3018.2
17.5°	5338.2	5282.5	4741.9	4046.0	3445.1	3041.4	2927.8	2906.9	2937.0	2971.8	2981.1
20°	5414.7	5326.6	4677.0	3704.9	3069.3	2814.1	2807.1	2881.4	2937.0	2988.1	2995.0
22.5°	5574.8	5352.1	4465.9	3382.5	2811.8	2746.8	2814.1	2876.7	2962.6	3004.3	2967.2
25°	5621.2	5296.4	4168.9	2995.0	2649.4	2705.0	2777.0	2862.8	2923.1	2946.3	2962.6
27.5°	5660.6	5210.6	3767.6	2737.5	2598.3	2702.7	2777.0	2848.9	2881.4	2902.2	2920.8
30°	5772.0	5185.1	3419.6	2565.8	2565.8	2656.3	2751.4	2770.0	2814.1	2839.6	2872.1
32.5°	5827.7	5008.7	3062.3	2456.8	2533.4	2679.5	2686.5	2721.3	2723.6	2744.5	2709.7
35°	5973.8	4883.5	2730.6	2377.9	2547.3	2656.3	2691.1	2670.2	2556.6	2500.9	2512.5
37.5°	6080.5	4820.8	2491.6	2368.7	2549.6	2681.8	2700.4	2542.6	2424.3	2331.5	2354.7
40°	6368.2	4665.4	2310.7	2352.4	2570.5	2709.7	2658.6	2487.0	2273.5	2178.4	2162.2
42.5°	6588.6	4554.0	2197.0	2333.9	2586.7	2749.1	2637.8	2375.6	2157.5	2069.4	2092.6
45°	6843.8	4528.5	2136.7	2338.5	2614.6	2770.0	2612.2	2289.8	2057.8	2023.0	2016.0
47.5°	6934.3	4345.2	2071.7	2299.1	2607.6	2763.0	2526.4	2224.8	2020.7	2025.3	2043.9
50°	6783.5	4157.3	2023.0	2217.9	2561.2	2700.4	2391.9	2139.0	1999.8	2057.8	2090.3
52.5°	6590.9	3964.8	1923.2	2108.8	2466.1	2603.0	2329.2	2134.3	1978.9	1960.3	1967.3
55°	6648.9	3807.0	1784.0	1960.3	2313.0	2422.0	2259.6	2090.3	1927.9	1858.3	1881.5
56°	6461.0	3644.6	1693.6	1867.5	2208.6	2306.0	2224.8	2050.8	1886.1	1839.7	1839.7
57.5°	5929.8	3099.4	1575.2	1719.1	1988.2	2104.2	2157.5	2027.6	1839.7	1758.5	1760.8
60°	4373.1	2203.9	1412.8	1514.9	1647.2	1740.0	1988.2	1962.7	1723.7	1668.0	1647.2
62.5°	2695.8	1610.0	1296.8	1336.3	1403.6	1480.1	1735.3	1777.1	1600.8	1540.4	1526.5
65°	1510.3	1231.9	1208.7	1224.9	1257.4	1296.8	1440.7	1533.5	1412.8	1320.0	1315.4
67.5°	1104.3	1102.0	1120.5	1134.4	1148.4	1148.4	1183.2	1220.3	1204.0	1129.8	1122.8
70°	981.3	988.3	1002.2	1004.5	1009.2	992.9	965.1	953.5	972.1	925.7	916.4
72.5°	809.7	832.9	849.1	851.4	825.9	805.0	767.9	728.5	714.5	705.3	702.9
75°	621.7	638.0	644.9	642.6	633.3	603.2	559.1	519.7	494.1	466.3	480.2
77.5°	419.9	443.1	454.7	454.7	440.8	394.4	373.5	343.4	317.8	287.7	292.3
80°	294.6	310.9	329.4	327.1	303.9	280.7	250.6	222.7	201.8	178.6	176.3
82.5°	220.4	229.7	239.0	234.3	218.1	194.9	174.0	148.5	125.3	109.0	109.0
85°	78.9	85.8	104.4	109.0	118.3	118.3	99.8	83.5	67.3	55.7	55.7
87.5°	23.2	23.2	25.5	25.5	23.2	25.5	20.9	23.2	25.5	16.2	16.2
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)