

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: P458102

Luminaire Tested: **GALN-SA9C-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54546 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
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

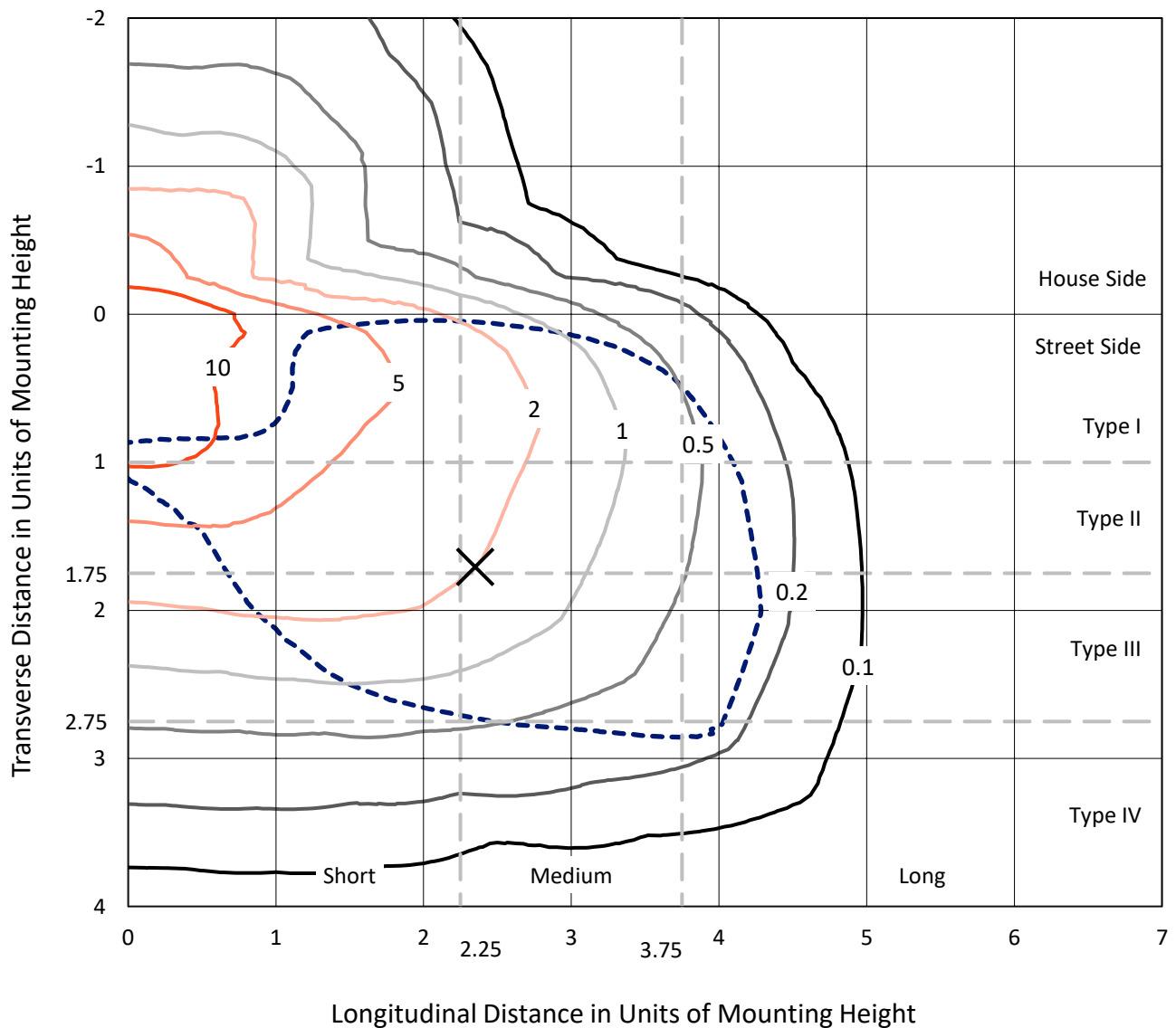




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Iso-Footcandle Lines of Horizontal Illumination

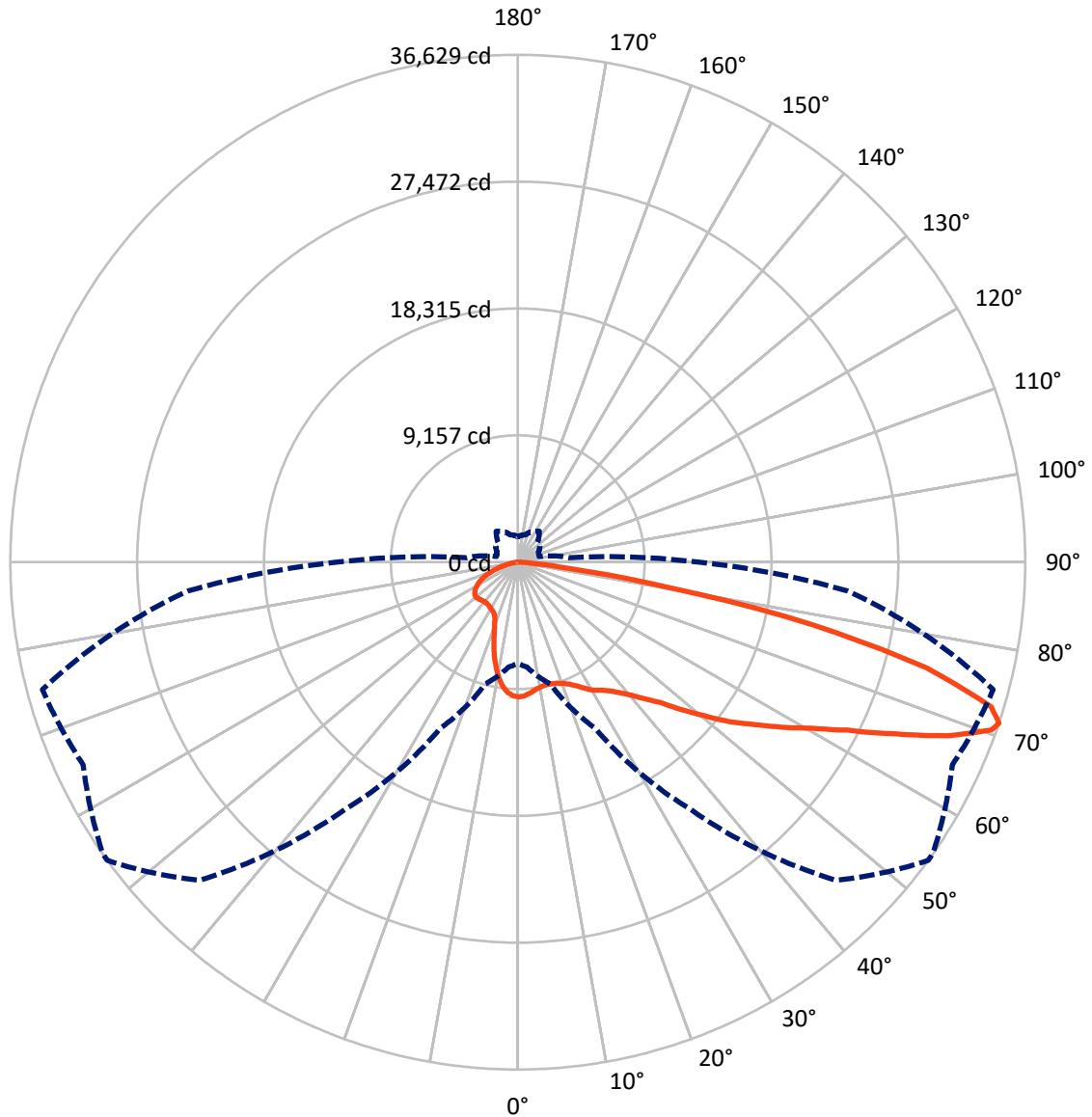
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9847.9	0.0	9847.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44698.1	0.0	44698.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	54546.0	0.0	54546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	867.3	1.6
10°-20°	2290.0	4.2
20°-30°	3812.9	7.0
30°-40°	5638.1	10.3
40°-50°	7941.4	14.6
50°-60°	10633.9	19.5
60°-70°	13403.2	24.6
70°-80°	9154.3	16.8
80°-90°	805.1	1.5
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°	54546.0	100.0
0°-180°	54546.0	100.0

Coefficient of Utilization



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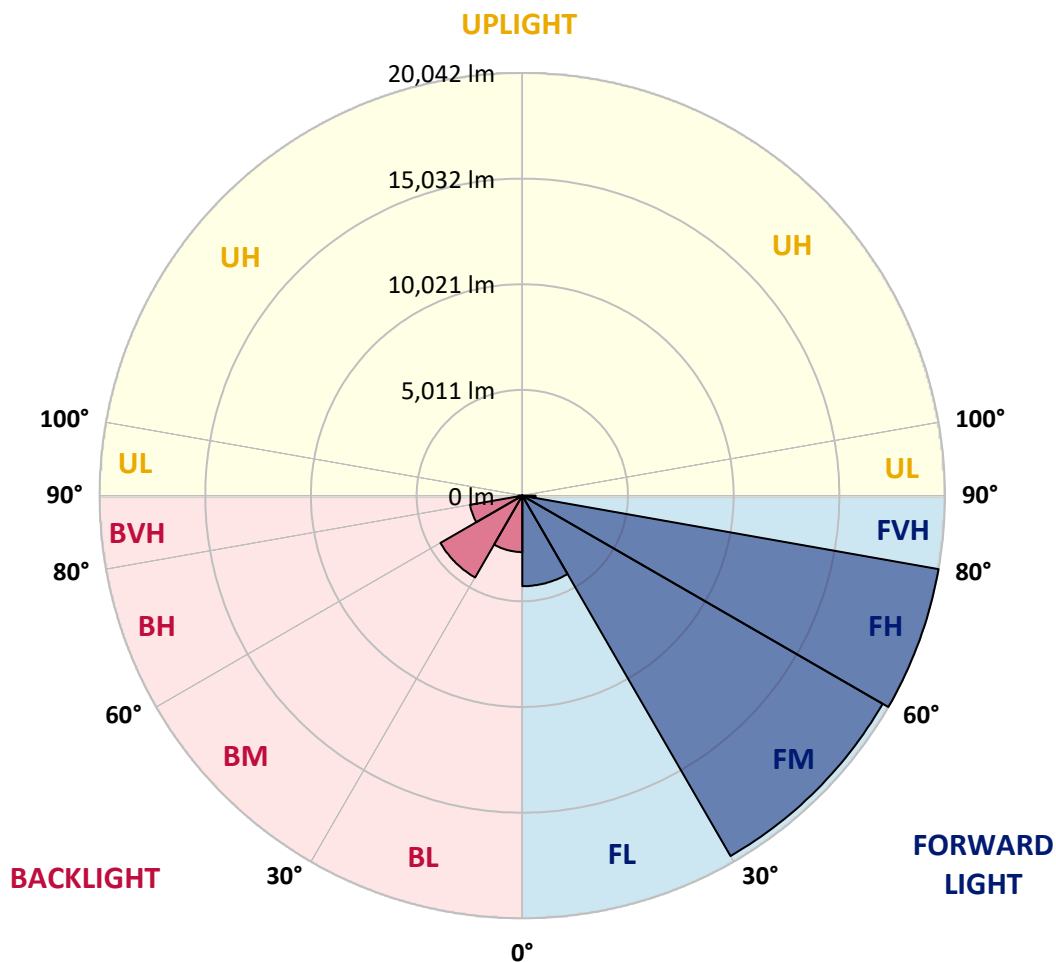
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4293.7	7.9			
FM	(30°-60°)	19732.8	36.2			
FH	(60°-80°)	20042.3	36.7			G5
FVH	(80°-90°)	629.3	1.2			G4/750
BL	(0°-30°)	2676.5	4.9	B4/5000		
BM	(30°-60°)	4480.5	8.2	B3/5000		
BH	(60°-80°)	2515.1	4.6	B4/5000		G4/5000
BVH	(80°-90°)	175.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8
2.5°	9401.8	9446.0	9457.8	9487.3	9549.1	9599.2	9649.3	9643.4	9714.1	9743.6	9770.1
5°	8983.4	8995.2	9039.4	9098.3	9207.4	9345.8	9481.4	9484.3	9658.2	9796.6	9864.4
7.5°	8677.0	8715.3	8744.8	8806.7	8921.6	9071.8	9286.9	9304.6	9614.0	9888.0	10032.3
10°	8476.7	8520.9	8553.3	8629.9	8744.8	8912.7	9145.5	9177.9	9581.5	10032.3	10285.7
12.5°	8294.0	8338.2	8367.7	8467.8	8618.1	8824.3	9086.6	9124.9	9593.3	10200.3	10562.7
15°	8406.0	8441.3	8429.5	8459.0	8559.2	8794.9	9110.1	9148.4	9637.5	10362.3	10836.7
17.5°	8903.9	8933.4	8836.1	8724.2	8677.0	8850.9	9183.8	9225.0	9725.9	10530.3	11116.6
20°	9637.5	9717.1	9504.9	9254.5	9027.6	9051.2	9337.0	9381.2	9849.7	10698.2	11402.4
22.5°	10592.2	10651.1	10391.8	9979.3	9560.9	9345.8	9566.8	9593.3	10035.3	10916.2	11714.7
25°	11714.7	11750.1	11390.6	10860.3	10256.3	9849.7	9882.1	9929.2	10341.7	11163.7	11991.7
27.5°	12804.9	12916.8	12501.4	11853.2	11057.7	10380.0	10315.2	10344.7	10674.6	11302.2	12183.2
30°	14098.3	14089.5	13650.5	12899.1	11879.7	10957.5	10724.7	10718.8	10854.4	11370.0	12321.7
32.5°	15129.5	15250.3	14820.2	14001.1	12819.6	11555.6	11007.6	10995.8	10992.9	11487.8	12527.9
35°	16302.2	16319.9	15925.1	15100.1	13836.1	12306.9	11402.4	11343.5	11275.7	11741.2	12807.8
37.5°	17351.1	17433.6	17071.2	16146.0	14834.9	13087.7	11944.5	11906.2	11700.0	12180.2	13255.7
40°	18170.2	18232.1	18014.0	17133.1	15819.0	13930.4	12634.0	12563.3	12312.8	12899.1	13853.8
42.5°	18438.3	18565.0	18650.4	18217.3	16950.4	14929.2	13482.5	13394.1	13202.6	13989.3	14543.2
45°	18458.9	18659.3	19110.1	19130.7	18087.7	16125.4	14472.5	14410.6	14395.9	15385.9	15512.6
47.5°	18302.8	18506.1	19263.3	19672.8	19101.2	17333.4	15901.5	15804.3	15813.1	17112.4	16599.8
50°	17925.6	18167.2	19086.5	20020.5	19893.8	18588.6	17410.0	17377.6	17560.3	19083.5	17728.2
52.5°	17215.6	17507.2	18903.8	20238.5	20483.1	19669.9	19124.8	19033.5	19496.0	21222.6	18962.7
55°	15250.3	15689.3	18235.0	20359.3	21042.9	20704.0	20668.7	20833.7	21446.5	23556.1	20321.0
57.5°	14225.0	14555.0	16782.4	20379.9	21750.0	21906.2	22471.9	22513.1	23585.6	26034.0	21856.1
60°	13665.2	13956.9	15986.9	20244.4	22737.0	23394.1	24316.3	24463.6	25674.5	28718.1	23447.1
62.5°	13176.1	13426.5	15509.6	19775.9	23850.8	25600.9	26705.8	26776.5	28046.4	31682.2	25017.5
65°	12024.1	12309.9	14549.1	19307.5	24811.3	28358.7	29876.1	29793.6	30571.4	34239.6	26001.6
67.5°	10471.3	10833.8	12754.8	17689.9	25285.6	31372.8	33447.0	33343.9	33064.0	35916.1	26284.4
70°	8488.5	8682.9	10459.6	14893.8	23391.1	32955.0	36266.7	36157.7	34607.9	36137.1	24946.8
71°	7304.0	7607.5	9107.2	13229.1	21814.8	32471.8	36629.1	36599.6	34610.8	35527.2	23939.1
72.5°	5701.2	5886.8	7212.7	10250.4	18541.4	29725.8	35733.4	35845.4	33859.5	33833.0	21862.0
75°	3606.3	3688.8	4525.6	6034.1	10173.8	21051.7	30503.6	30807.1	30064.6	27692.8	16258.0
77.5°	2094.9	2200.9	2710.6	3556.3	4396.0	11426.0	21826.6	22156.6	20889.7	15247.4	6655.8
80°	1219.8	1337.6	1785.5	2065.4	2018.3	4239.8	11113.7	11676.4	9045.3	3850.9	1868.0
82.5°	677.7	757.2	1255.1	1258.1	1075.4	1384.8	3497.3	3659.4	2581.0	1552.7	763.1
85°	492.0	556.9	810.2	733.6	515.6	595.2	1216.8	1275.8	1043.0	654.1	247.5
87.5°	173.8	247.5	444.9	353.6	141.4	123.7	350.6	285.8	265.2	182.7	56.0
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°	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8	9731.8
2.5°	9784.8	9790.7	9761.3	9708.2	9655.2	9587.4	9510.8	9451.9	9425.4	9422.4	9419.5
5°	9890.9	9905.6	9793.7	9628.7	9446.0	9222.1	9030.6	8812.6	8756.6	8668.2	8694.7
7.5°	10061.8	10053.0	9832.0	9481.4	9054.2	8579.8	8179.1	7946.3	7704.7	7637.0	7639.9
10°	10306.4	10250.4	9832.0	9180.8	8467.8	7763.6	7203.8	6850.3	6658.8	6499.7	6440.7
12.5°	10565.6	10424.2	9737.7	8759.5	7713.6	6850.3	6249.2	5771.9	5648.2	5518.5	5521.5
15°	10813.1	10577.4	9552.1	8167.3	6900.4	5875.0	5291.7	5005.9	4967.6	4982.3	4979.3
17.5°	11037.0	10686.4	9269.2	7507.3	5951.6	5038.3	4728.9	4749.5	4852.6	4926.3	4935.1
20°	11263.9	10751.3	8847.9	6623.4	5055.9	4531.5	4543.3	4705.3	4861.5	4961.7	4976.4
22.5°	11479.0	10780.7	8352.9	5769.0	4407.7	4316.4	4490.2	4664.1	4817.3	4914.5	4929.3
25°	11620.4	10713.0	7651.7	4876.2	4089.5	4239.8	4422.5	4569.8	4699.4	4799.6	4823.2
27.5°	11658.7	10494.9	6782.5	4154.4	3942.2	4166.1	4334.1	4443.1	4543.3	4637.6	4655.2
30°	11638.1	10173.8	5827.9	3730.1	3856.8	4080.7	4210.3	4289.9	4410.7	4484.4	4499.1
32.5°	11605.7	9799.6	4832.0	3503.2	3786.1	4001.2	4077.8	4148.5	4145.5	4116.1	4136.7
35°	11617.5	9351.7	4024.7	3367.7	3724.2	3942.2	4007.0	3918.7	3665.3	3653.5	3641.7
37.5°	11679.4	8909.8	3438.4	3273.4	3691.8	3933.4	3968.7	3562.1	3338.2	3235.1	3208.6
40°	11838.5	8394.2	3052.4	3202.7	3688.8	4001.2	3794.9	3382.4	2952.2	2751.9	2737.2
42.5°	12050.6	7887.4	2816.7	3158.5	3724.2	4104.3	3724.2	3129.0	2660.6	2542.7	2525.0
45°	12365.9	7307.0	2687.1	3137.9	3777.2	4142.6	3700.6	2943.4	2542.7	2448.4	2448.4
47.5°	12722.4	6753.0	2616.4	3123.1	3845.0	4116.1	3491.4	2884.5	2486.7	2498.5	2554.5
50°	13075.9	6272.8	2563.3	3090.7	3903.9	4101.3	3406.0	2881.5	2501.5	2651.7	2751.9
52.5°	13485.5	5934.0	2498.5	3037.7	3903.9	4007.0	3379.5	2940.5	2542.7	2586.9	2631.1
55°	13980.5	5827.9	2416.0	2922.8	3833.2	3771.3	3364.7	3025.9	2572.2	2469.0	2486.7
57.5°	14634.6	5998.8	2336.5	2778.4	3671.2	3526.8	3358.8	3049.5	2504.4	2419.0	2401.3
60°	15394.7	6337.6	2312.9	2631.1	3450.2	3317.6	3323.5	2981.7	2410.1	2321.7	2336.5
62.5°	15928.0	6540.9	2298.2	2519.1	3208.6	3087.8	3238.0	2899.2	2368.9	2292.3	2307.0
65°	15928.0	6293.4	2162.6	2348.2	2896.3	2810.8	3134.9	2796.1	2315.8	2227.4	2212.7
67.5°	15324.0	5571.6	1956.4	2091.9	2551.5	2495.6	2990.6	2672.3	2236.3	2168.5	2133.2
70°	13750.6	4225.1	1697.1	1791.4	2115.5	2165.6	2804.9	2504.4	2103.7	2021.2	1968.2
71°	13058.3	3680.0	1588.1	1638.2	1947.5	2021.2	2716.5	2433.7	2044.8	1926.9	1832.6
72.5°	11723.6	3099.6	1423.1	1443.7	1664.7	1797.3	2530.9	2298.2	1932.8	1764.9	1658.8
75°	8906.8	2262.8	1146.1	1134.3	1231.6	1426.0	2142.0	2047.7	1694.2	1467.3	1405.4
77.5°	3847.9	1231.6	857.4	866.2	836.8	1081.3	1685.3	1759.0	1452.6	1193.3	1137.3
80°	1166.8	710.1	586.3	598.1	559.8	724.8	1187.4	1378.9	1166.8	928.1	851.5
82.5°	598.1	424.3	400.7	394.8	356.5	409.5	718.9	942.8	833.8	580.4	512.7
85°	259.3	226.9	197.4	191.5	167.9	147.3	256.3	471.4	442.0	324.1	309.4
87.5°	64.8	58.9	38.3	35.4	20.6	2.9	0.0	0.0	0.0	0.0	0.0
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)