

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: P454392

Luminaire Tested: **GALN-SA5C-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29380 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

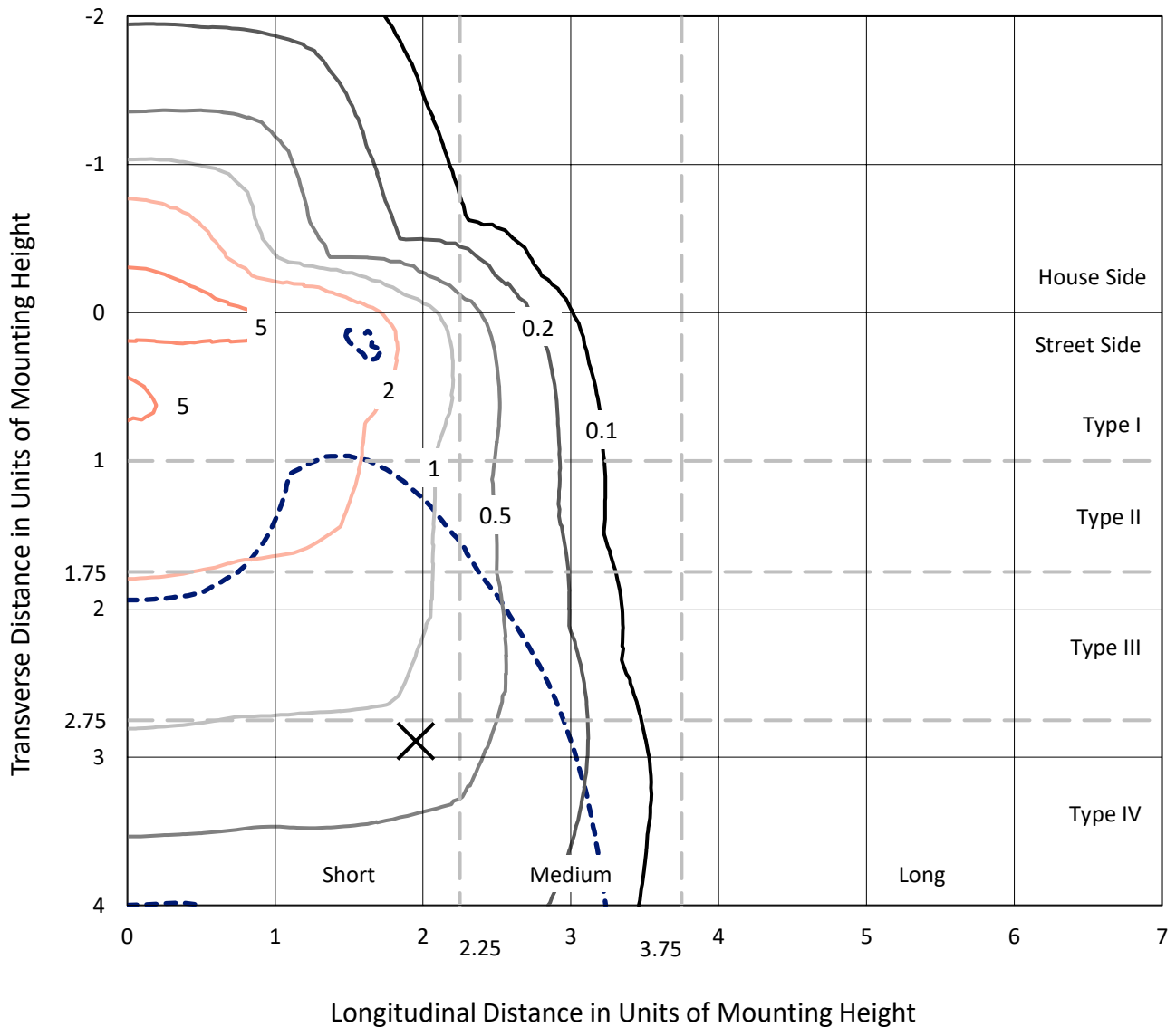
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

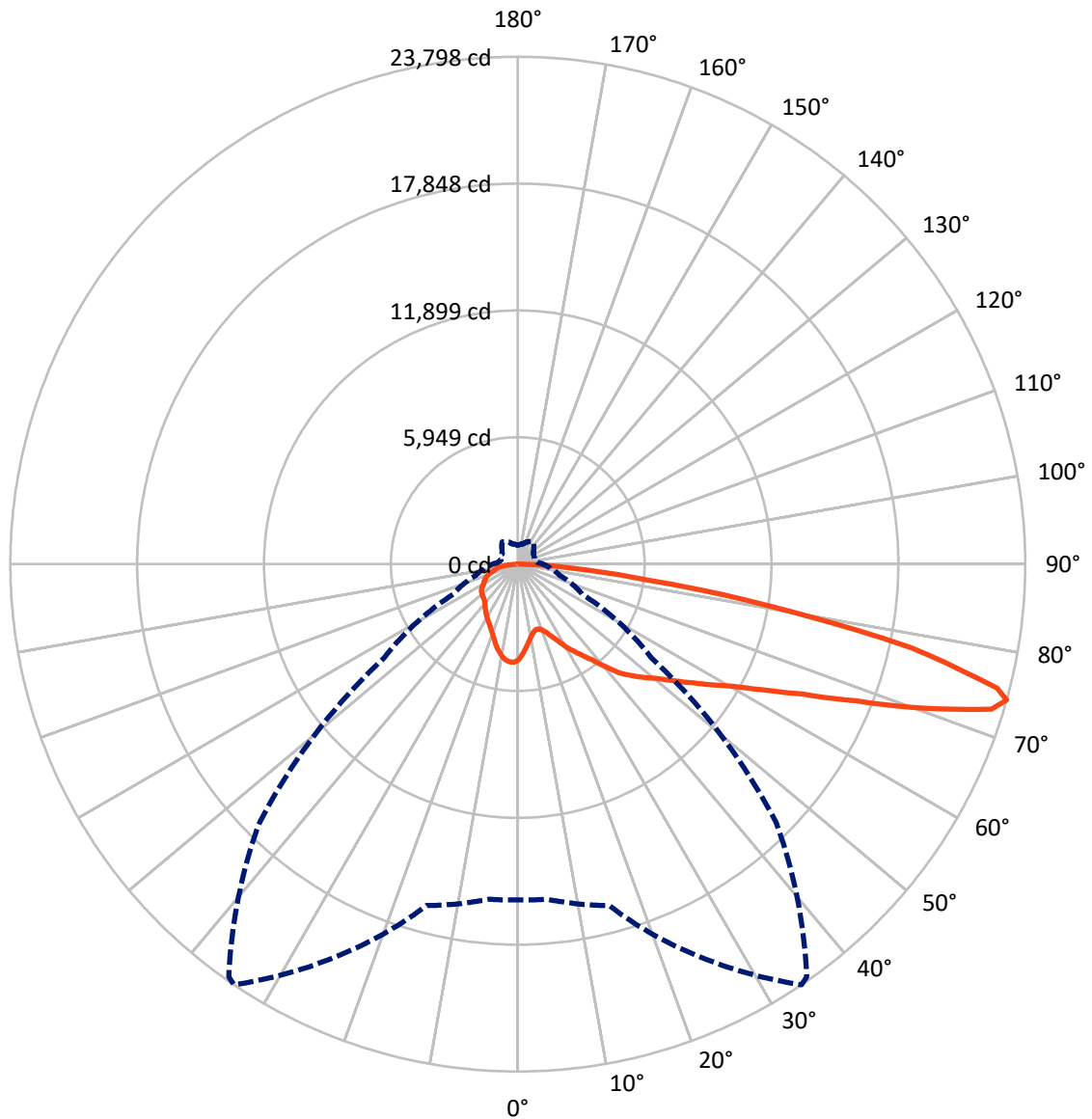
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6252.3	0.0	6252.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	23127.7	0.0	23127.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	29380.0	0.0	29380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.0	1.4
10°-20°	1116.8	3.8
20°-30°	1841.3	6.3
30°-40°	2758.0	9.4
40°-50°	4009.4	13.6
50°-60°	5600.2	19.1
60°-70°	7011.1	23.9
70°-80°	5797.6	19.7
80°-90°	837.7	2.9
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°	29380.0	100.0
0°-180°	29380.0	100.0

Coefficient of Utilization



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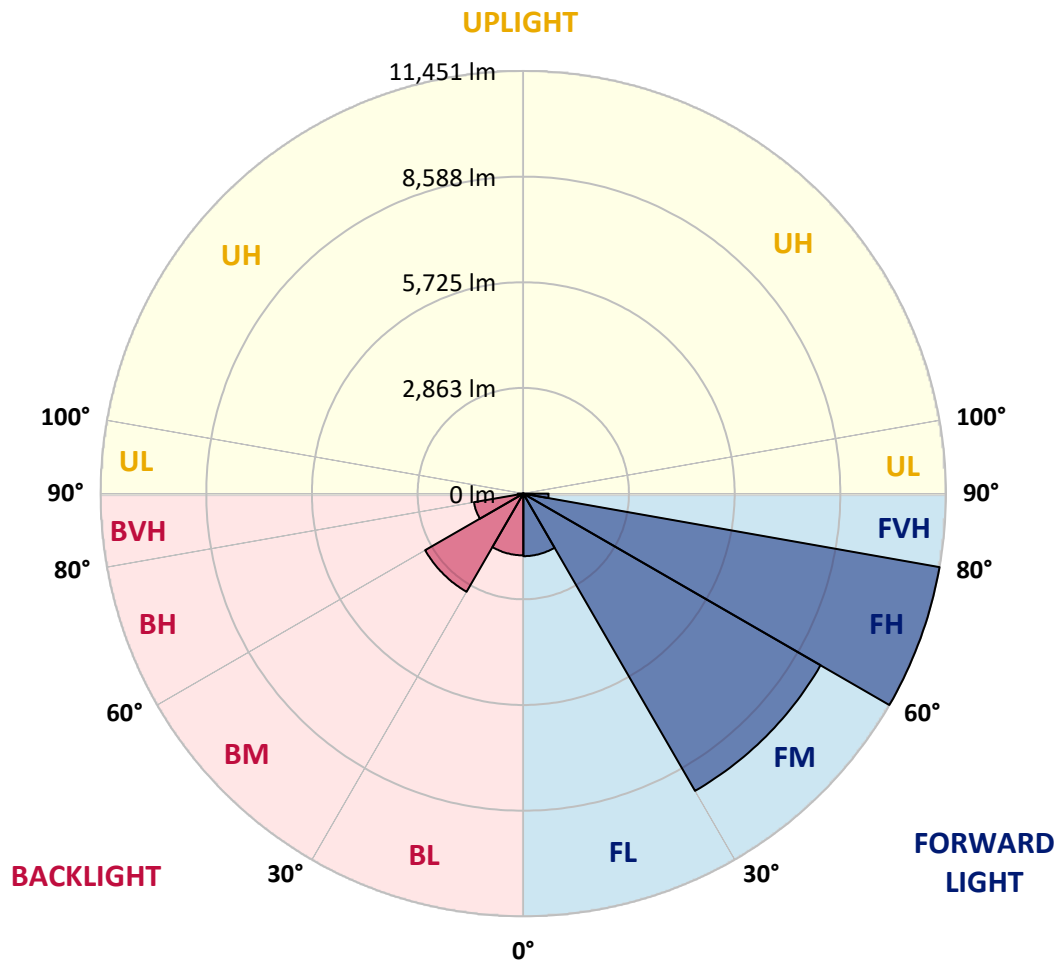
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.6	5.8			
FM (30°-60°)	9297.0	31.6			
FH (60°-80°)	11450.8	39.0			G4/12000
FVH (80°-90°)	686.3	2.3			G4/750
BL (0°-30°)	1672.4	5.7	B3/2500		
BM (30°-60°)	3070.5	10.5	B3/5000		
BH (60°-80°)	1358.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	151.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7
2.5°	4145.6	4166.7	4178.1	4218.8	4228.6	4241.6	4275.8	4321.4	4379.9	4432.0	4477.6
5°	3800.5	3833.1	3852.6	3888.4	3958.4	3964.9	4056.1	4160.2	4279.0	4389.7	4480.9
7.5°	3473.4	3509.2	3525.4	3590.5	3683.3	3698.0	3831.4	3995.8	4194.4	4362.0	4502.0
10°	3227.6	3245.5	3281.3	3330.1	3440.8	3450.6	3624.7	3844.5	4101.6	4349.0	4537.8
12.5°	3094.1	3103.9	3112.0	3164.1	3273.2	3287.8	3470.1	3719.1	4028.4	4358.8	4596.4
15°	3113.7	3116.9	3081.1	3090.9	3178.8	3199.9	3380.6	3636.1	3982.8	4383.2	4684.3
17.5°	3278.0	3266.7	3178.8	3133.2	3195.0	3204.8	3362.7	3603.6	3961.6	4428.8	4775.5
20°	3536.8	3520.6	3369.2	3268.3	3304.1	3312.2	3421.3	3628.0	3982.8	4503.6	4917.1
22.5°	3859.1	3852.6	3623.1	3501.0	3499.4	3499.4	3556.4	3715.9	4046.3	4606.2	5065.2
25°	4310.0	4275.8	3976.3	3818.4	3774.5	3771.2	3764.7	3860.7	4127.7	4715.2	5241.0
27.5°	4772.2	4713.6	4446.7	4204.2	4109.8	4098.4	4056.1	4065.8	4231.8	4838.9	5441.2
30°	5187.3	5149.8	4899.2	4630.6	4518.3	4492.3	4375.1	4321.4	4406.0	5061.9	5760.2
32.5°	5504.6	5481.9	5286.5	5042.4	4876.4	4871.5	4700.6	4656.6	4677.8	5332.1	6124.8
35°	5761.8	5769.9	5670.7	5459.1	5268.6	5241.0	5127.0	5071.7	5009.8	5722.7	6583.8
37.5°	6113.4	6131.3	6124.8	5942.5	5709.7	5716.2	5690.2	5599.0	5434.7	6158.9	7093.2
40°	6500.7	6513.8	6512.1	6442.2	6320.1	6326.6	6316.8	6212.7	5966.9	6714.0	7659.6
42.5°	7036.2	6974.4	6813.3	6883.2	6954.9	6985.8	7052.5	6953.2	6616.3	7306.4	8191.9
45°	7635.2	7518.0	7153.4	7186.0	7451.3	7509.9	7877.7	7741.0	7321.1	7986.8	8818.5
47.5°	8012.8	7897.3	7589.6	7583.1	7934.7	7991.7	8642.7	8592.3	7962.4	8720.8	9583.5
50°	8349.7	8333.5	7986.8	8069.8	8413.2	8497.8	9476.1	9428.9	8602.0	9586.7	10416.8
52.5°	8849.4	8717.6	8440.9	8611.8	9065.9	9176.6	10302.9	10164.5	9189.6	10351.7	11225.8
55°	9074.0	9043.1	9026.8	9174.9	9798.3	9878.1	11106.9	10789.6	9690.9	10999.5	11841.0
57.5°	9674.6	9617.7	9778.8	9879.7	10661.0	10783.0	11946.8	11442.2	10130.4	11513.8	12140.5
60°	10452.6	10421.7	10569.8	10752.1	11624.5	11810.1	12903.8	11998.9	10483.6	11772.6	11976.1
62.5°	11614.8	11611.5	11583.8	11974.5	12990.1	13161.0	14002.5	12540.9	10538.9	11579.0	11126.5
65°	13281.5	13222.9	12982.0	13408.4	14689.3	14889.5	15146.7	12843.6	10205.2	10584.5	9368.6
67.5°	15024.6	15021.4	14826.1	15379.5	17129.2	17335.9	16577.4	12776.9	9279.1	8574.3	6653.7
70°	16470.0	16400.0	16649.0	18123.6	20246.1	20485.3	17829.0	11990.7	7391.1	5662.5	3953.5
72.5°	16816.7	16819.9	17337.5	20239.6	23239.3	23276.7	18279.9	9718.6	4946.4	3123.4	1977.6
74°	15748.9	15776.6	16579.0	20345.4	23797.6	23628.3	17127.5	7638.5	3344.8	2039.4	1425.8
75°	14375.2	14201.1	15361.6	19640.6	23218.1	23035.8	15778.2	6129.7	2552.1	1629.3	1248.4
77.5°	7685.7	7863.1	9653.5	14656.8	18862.6	18652.6	10698.4	2939.5	1378.6	1134.5	898.5
80°	2736.0	3017.6	4241.6	7669.4	12093.3	12158.4	5105.9	1347.7	970.1	836.6	634.8
82.5°	1116.6	1147.5	1821.3	3403.4	6141.0	6199.6	2085.0	800.8	693.4	576.2	379.2
85°	436.2	449.2	805.7	1530.0	2620.5	2791.4	721.0	423.2	426.4	330.4	193.7
87.5°	146.5	166.0	330.4	509.4	890.3	872.4	210.0	125.3	153.0	143.2	60.2
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°	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7	4485.7
2.5°	4500.4	4531.3	4552.5	4575.3	4596.4	4602.9	4598.1	4612.7	4614.3	4616.0	4617.6
5°	4526.4	4568.8	4609.4	4632.2	4642.0	4633.9	4606.2	4591.5	4578.5	4568.8	4572.0
7.5°	4562.2	4622.5	4659.9	4669.7	4643.6	4606.2	4537.8	4484.1	4449.9	4427.2	4425.5
10°	4617.6	4676.2	4707.1	4679.4	4607.8	4516.7	4409.2	4308.3	4231.8	4209.0	4207.4
12.5°	4687.6	4754.3	4752.7	4671.3	4546.0	4383.2	4209.0	4091.9	3987.7	3935.6	3956.8
15°	4778.7	4829.2	4782.0	4635.5	4436.9	4213.9	3999.1	3839.6	3722.4	3667.0	3670.3
17.5°	4884.5	4928.5	4803.1	4572.0	4283.9	3997.5	3748.4	3597.1	3504.3	3463.6	3460.3
20°	5016.4	5029.4	4803.1	4461.3	4087.0	3745.2	3507.5	3401.7	3349.7	3328.5	3335.0
22.5°	5158.0	5131.9	4777.1	4305.1	3828.2	3481.5	3322.0	3274.8	3248.7	3245.5	3248.7
25°	5317.5	5244.2	4723.4	4093.5	3558.0	3253.6	3160.9	3169.0	3173.9	3173.9	3185.3
27.5°	5512.8	5366.3	4633.9	3826.6	3242.2	3042.0	3016.0	3073.0	3099.0	3103.9	3112.0
30°	5769.9	5499.8	4485.7	3492.9	2973.7	2851.6	2897.2	2973.7	3003.0	3020.9	3017.6
32.5°	6075.9	5646.2	4285.5	3159.2	2757.2	2718.1	2773.5	2851.6	2884.2	2893.9	2880.9
35°	6435.6	5812.3	4021.9	2846.7	2568.4	2591.2	2656.3	2680.7	2710.0	2710.0	2716.5
37.5°	6823.0	5945.7	3699.6	2560.3	2421.9	2504.9	2552.1	2529.3	2516.3	2500.0	2508.2
40°	7216.9	6045.0	3281.3	2277.1	2275.4	2415.4	2428.4	2363.3	2311.2	2295.0	2286.8
42.5°	7560.3	6106.9	2903.7	2057.3	2137.1	2327.5	2337.3	2233.1	2150.1	2101.3	2085.0
45°	7965.6	6178.5	2534.2	1875.0	2008.5	2257.5	2281.9	2142.0	2019.9	1917.3	1891.3
47.5°	8520.6	6341.2	2242.9	1733.4	1915.7	2213.6	2247.8	2067.1	1906.0	1772.5	1751.3
50°	9147.3	6564.2	2016.6	1637.4	1844.1	2174.5	2216.8	1990.6	1800.2	1652.0	1635.8
52.5°	9721.8	6684.7	1821.3	1551.1	1774.1	2102.9	2176.1	1935.3	1696.0	1531.6	1517.0
55°	10036.0	6489.4	1629.3	1466.5	1678.1	2010.1	2119.2	1858.8	1595.1	1468.1	1447.0
57.5°	10078.3	6085.7	1455.1	1375.3	1577.2	1896.2	2013.4	1766.0	1530.0	1424.2	1406.3
60°	9751.1	5483.5	1320.0	1300.5	1474.6	1767.6	1894.6	1684.6	1463.2	1375.3	1357.4
62.5°	8937.3	4829.2	1225.6	1232.1	1370.5	1632.5	1806.7	1606.5	1399.8	1321.6	1305.4
65°	7537.5	3986.1	1134.5	1162.1	1277.7	1526.7	1726.9	1541.4	1336.3	1280.9	1266.3
67.5°	5236.1	2877.6	1059.6	1088.9	1189.8	1419.3	1634.1	1471.4	1264.7	1235.4	1212.6
70°	2898.8	1770.9	971.7	1005.9	1098.6	1298.8	1530.0	1365.6	1160.5	1147.5	1114.9
72.5°	1523.5	1127.9	872.4	909.8	974.9	1144.2	1370.5	1250.0	1058.0	1002.6	960.3
74°	1189.8	924.5	805.7	844.7	888.7	1053.1	1276.1	1167.0	984.7	919.6	887.1
75°	1036.8	823.6	748.7	799.2	838.2	991.2	1202.8	1108.4	944.0	882.2	852.9
77.5°	732.4	616.9	612.0	672.2	693.4	869.2	1084.0	1009.1	841.5	776.4	748.7
80°	514.3	462.2	485.0	522.5	551.8	768.2	1005.9	872.4	690.1	613.6	603.9
82.5°	335.3	302.7	346.7	380.9	390.6	566.4	812.2	662.4	502.9	408.5	379.2
85°	154.6	151.4	198.6	193.7	192.1	276.7	481.8	387.4	289.7	216.5	203.5
87.5°	39.1	37.4	48.8	40.7	48.8	42.3	43.9	11.4	1.6	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)