

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: P456857

Luminaire Tested: **GALN-SA8A-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456857
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-SA8A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 27087 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

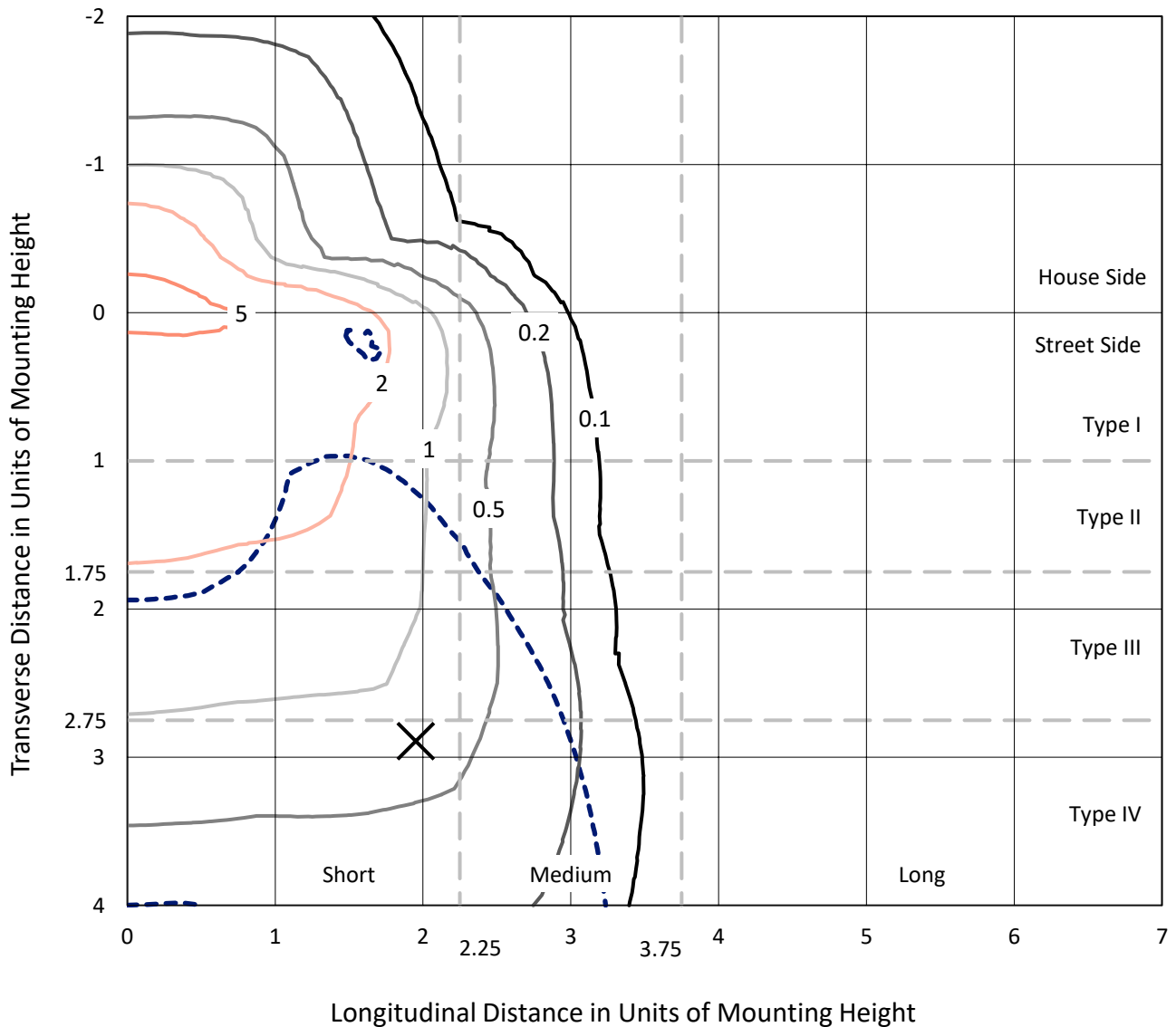
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

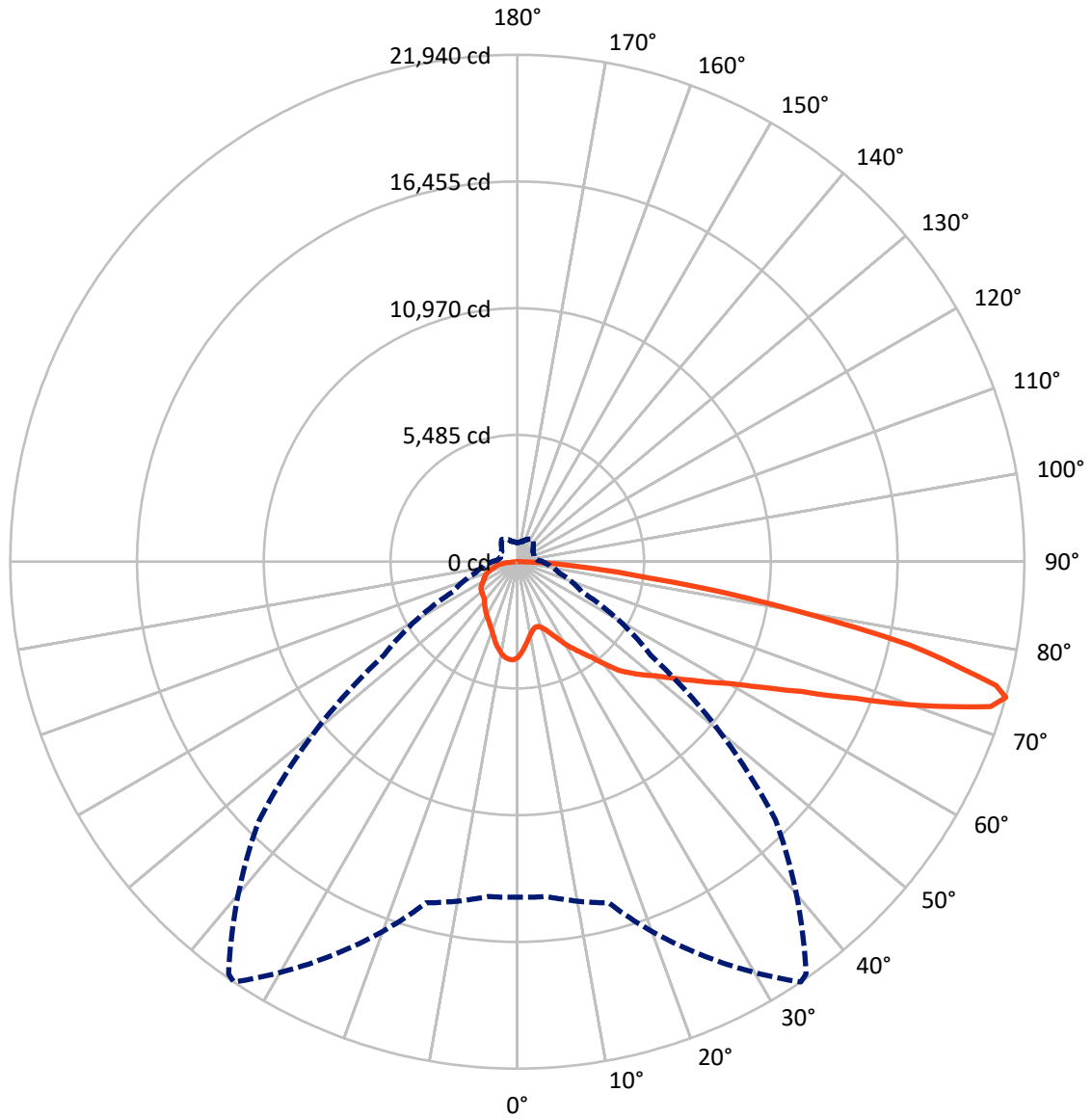
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	5764.3	0.0	5764.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21322.7	0.0	21322.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	27087.0	0.0	27087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.1	1.4
10°-20°	1029.6	3.8
20°-30°	1697.6	6.3
30°-40°	2542.8	9.4
40°-50°	3696.5	13.6
50°-60°	5163.1	19.1
60°-70°	6463.9	23.9
70°-80°	5345.1	19.7
80°-90°	772.3	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°	27087.0	100.0
0°-180°	27087.0	100.0

Coefficient of Utilization



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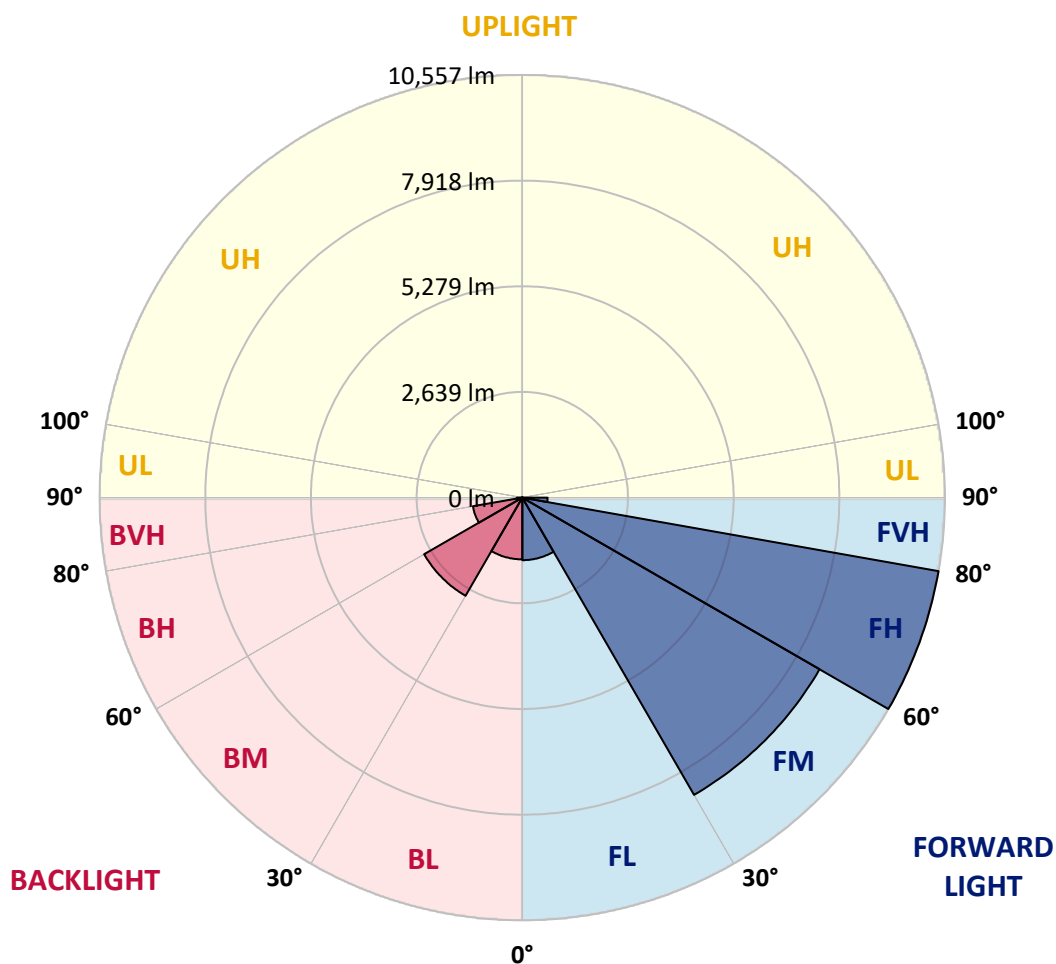
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1561.4	5.8			
FM	(30°-60°)	8571.4	31.6			
FH	(60°-80°)	10557.1	39.0			G4/12000
FVH	(80°-90°)	632.7	2.3			G4/750
BL	(0°-30°)	1541.9	5.7	B3/2500		
BM	(30°-60°)	2830.9	10.5	B3/5000		
BH	(60°-80°)	1252.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	139.6	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°	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6
2.5°	3822.0	3841.5	3852.0	3889.6	3898.6	3910.6	3942.1	3984.1	4038.1	4086.1	4128.1
5°	3503.9	3533.9	3551.9	3584.9	3649.5	3655.5	3739.5	3835.5	3945.1	4047.1	4131.1
7.5°	3202.3	3235.3	3250.3	3310.3	3395.9	3409.4	3532.4	3684.0	3867.0	4021.6	4150.7
10°	2975.7	2992.2	3025.2	3070.2	3172.3	3181.3	3341.8	3544.4	3781.5	4009.6	4183.7
12.5°	2852.6	2861.6	2869.1	2917.2	3017.7	3031.2	3199.3	3428.9	3714.0	4018.6	4237.7
15°	2870.6	2873.6	2840.6	2849.6	2930.7	2950.2	3116.7	3352.3	3672.0	4041.1	4318.7
17.5°	3022.2	3011.7	2930.7	2888.7	2945.7	2954.7	3100.2	3322.3	3652.5	4083.1	4402.8
20°	3260.8	3245.8	3106.2	3013.2	3046.2	3053.7	3154.3	3344.8	3672.0	4152.2	4533.3
22.5°	3557.9	3551.9	3340.3	3227.8	3226.3	3226.3	3278.8	3425.9	3730.5	4246.7	4669.9
25°	3973.6	3942.1	3666.0	3520.4	3479.9	3476.9	3470.9	3559.4	3805.5	4347.2	4831.9
27.5°	4399.8	4345.7	4099.6	3876.0	3789.0	3778.5	3739.5	3748.5	3901.6	4461.3	5016.5
30°	4782.4	4747.9	4516.8	4269.2	4165.7	4141.7	4033.6	3984.1	4062.1	4666.9	5310.6
32.5°	5075.0	5054.0	4873.9	4648.9	4495.8	4491.3	4333.7	4293.2	4312.7	4916.0	5646.8
35°	5312.1	5319.6	5228.1	5033.0	4857.4	4831.9	4726.9	4675.9	4618.8	5276.1	6069.9
37.5°	5636.2	5652.8	5646.8	5478.7	5264.1	5270.1	5246.1	5162.1	5010.5	5678.3	6539.6
40°	5993.4	6005.4	6003.9	5939.4	5826.8	5832.8	5823.8	5727.8	5501.2	6190.0	7061.8
42.5°	6487.1	6430.1	6281.5	6346.0	6412.1	6440.6	6502.1	6410.6	6099.9	6736.2	7552.5
45°	7039.3	6931.3	6595.1	6625.1	6869.7	6923.8	7262.9	7136.8	6749.7	7363.4	8130.2
47.5°	7387.4	7280.9	6997.3	6991.3	7315.4	7367.9	7968.2	7921.7	7340.9	8040.2	8835.5
50°	7698.1	7683.1	7363.4	7440.0	7756.6	7834.6	8736.5	8693.0	7930.7	8838.5	9603.8
52.5°	8158.8	8037.2	7782.1	7939.7	8358.3	8460.4	9498.8	9371.2	8472.4	9543.8	10349.6
55°	8365.8	8337.3	8322.3	8458.9	9033.6	9107.1	10240.1	9947.5	8934.6	10141.0	10916.9
57.5°	8919.6	8867.0	9015.6	9108.6	9828.9	9941.5	11014.4	10549.2	9339.7	10615.2	11193.0
60°	9636.8	9608.3	9744.9	9913.0	10717.3	10888.3	11896.7	11062.4	9665.4	10853.8	11041.4
62.5°	10708.3	10705.3	10679.8	11039.9	11976.3	12133.8	12909.6	11562.1	9716.4	10675.3	10258.1
65°	12244.9	12190.9	11968.8	12361.9	13542.9	13727.5	13964.6	11841.2	9408.8	9758.4	8637.4
67.5°	13852.0	13849.0	13669.0	14179.2	15792.3	15982.9	15283.6	11779.7	8554.9	7905.2	6134.4
70°	15184.6	15120.0	15349.6	16709.2	18665.9	18886.5	16437.6	11054.9	6814.2	5220.6	3645.0
72.5°	15504.2	15507.2	15984.4	18659.9	21425.5	21460.1	16853.2	8960.1	4560.3	2879.6	1823.2
74°	14519.8	14545.3	15285.1	18757.5	21940.2	21784.2	15790.8	7042.3	3083.7	1880.2	1314.5
75°	13253.3	13092.7	14162.6	18107.7	21406.0	21238.0	14546.8	5651.3	2352.9	1502.1	1151.0
77.5°	7085.8	7249.4	8900.0	13512.9	17390.4	17196.9	9863.4	2710.1	1271.0	1045.9	828.3
80°	2522.5	2782.1	3910.6	7070.8	11149.4	11209.5	4707.4	1242.5	894.4	771.3	585.2
82.5°	1029.4	1057.9	1679.2	3137.8	5661.8	5715.8	1922.3	738.3	639.3	531.2	349.6
85°	402.2	414.2	742.8	1410.6	2416.0	2573.5	664.8	390.2	393.2	304.6	178.6
87.5°	135.1	153.1	304.6	469.7	820.8	804.3	193.6	115.5	141.1	132.1	55.5
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°	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6	4135.6
2.5°	4149.2	4177.7	4197.2	4218.2	4237.7	4243.7	4239.2	4252.7	4254.2	4255.7	4257.2
5°	4173.2	4212.2	4249.7	4270.7	4279.7	4272.2	4246.7	4233.2	4221.2	4212.2	4215.2
7.5°	4206.2	4261.7	4296.2	4305.2	4281.2	4246.7	4183.7	4134.1	4102.6	4081.6	4080.1
10°	4257.2	4311.2	4339.7	4314.2	4248.2	4164.2	4065.1	3972.1	3901.6	3880.5	3879.0
12.5°	4321.7	4383.2	4381.7	4306.7	4191.2	4041.1	3880.5	3772.5	3676.5	3628.4	3648.0
15°	4405.8	4452.3	4408.8	4273.7	4090.6	3885.0	3687.0	3539.9	3431.9	3380.8	3383.8
17.5°	4503.3	4543.8	4428.3	4215.2	3949.6	3685.5	3455.9	3316.3	3230.8	3193.3	3190.3
20°	4624.8	4636.8	4428.3	4113.1	3768.0	3452.9	3233.8	3136.3	3088.2	3068.7	3074.7
22.5°	4755.4	4731.4	4404.3	3969.1	3529.4	3209.8	3062.7	3019.2	2995.2	2992.2	2995.2
25°	4902.5	4834.9	4354.7	3774.0	3280.3	2999.7	2914.2	2921.7	2926.2	2926.2	2936.7
27.5°	5082.5	4947.5	4272.2	3527.9	2989.2	2804.6	2780.6	2833.1	2857.1	2861.6	2869.1
30°	5319.6	5070.5	4135.6	3220.3	2741.6	2629.0	2671.1	2741.6	2768.6	2785.1	2782.1
32.5°	5601.7	5205.6	3951.1	2912.7	2542.0	2506.0	2557.0	2629.0	2659.1	2668.1	2656.1
35°	5933.4	5358.6	3708.0	2624.5	2367.9	2389.0	2449.0	2471.5	2498.5	2498.5	2504.5
37.5°	6290.5	5481.7	3410.9	2360.4	2232.9	2309.4	2352.9	2331.9	2319.9	2304.9	2312.4
40°	6653.7	5573.2	3025.2	2099.3	2097.8	2226.9	2238.9	2178.9	2130.8	2115.8	2108.3
42.5°	6970.3	5630.2	2677.1	1896.8	1970.3	2145.9	2154.9	2058.8	1982.3	1937.3	1922.3
45°	7343.9	5696.3	2336.4	1728.7	1851.7	2081.3	2103.8	1974.8	1862.2	1767.7	1743.7
47.5°	7855.6	5846.3	2067.8	1598.1	1766.2	2040.8	2072.3	1905.8	1757.2	1634.2	1614.6
50°	8433.4	6051.9	1859.2	1509.6	1700.2	2004.8	2043.8	1835.2	1659.7	1523.1	1508.1
52.5°	8963.1	6163.0	1679.2	1430.1	1635.7	1938.8	2006.3	1784.2	1563.6	1412.1	1398.6
55°	9252.7	5982.9	1502.1	1352.0	1547.1	1853.2	1953.8	1713.7	1470.6	1353.5	1334.0
57.5°	9291.7	5610.7	1341.5	1268.0	1454.1	1748.2	1856.2	1628.1	1410.6	1313.0	1296.5
60°	8990.1	5055.5	1217.0	1199.0	1359.5	1629.6	1746.7	1553.1	1349.0	1268.0	1251.5
62.5°	8239.8	4452.3	1130.0	1136.0	1263.5	1505.1	1665.7	1481.1	1290.5	1218.5	1203.5
65°	6949.3	3675.0	1045.9	1071.4	1178.0	1407.6	1592.1	1421.1	1232.0	1181.0	1167.5
67.5°	4827.4	2653.1	976.9	1003.9	1096.9	1308.5	1506.6	1356.5	1166.0	1139.0	1117.9
70°	2672.6	1632.7	895.9	927.4	1012.9	1197.5	1410.6	1259.0	1069.9	1057.9	1027.9
72.5°	1404.6	1039.9	804.3	838.8	898.9	1054.9	1263.5	1152.5	975.4	924.4	885.4
74°	1096.9	852.3	742.8	778.8	819.3	970.9	1176.5	1075.9	907.9	847.8	817.8
75°	955.9	759.3	690.3	736.8	772.8	913.9	1108.9	1021.9	870.3	813.3	786.3
77.5°	675.3	568.7	564.2	619.7	639.3	801.3	999.4	930.4	775.8	715.8	690.3
80°	474.2	426.2	447.2	481.7	508.7	708.3	927.4	804.3	636.3	565.7	556.7
82.5°	309.1	279.1	319.6	351.1	360.1	522.2	748.8	610.7	463.7	376.7	349.6
85°	142.6	139.6	183.1	178.6	177.1	255.1	444.2	357.1	267.1	199.6	187.6
87.5°	36.0	34.5	45.0	37.5	45.0	39.0	40.5	10.5	1.5	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)