

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: P454972

Luminaire Tested: **GALN-SA6A-760-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454972
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-SA6A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 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: 27058 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

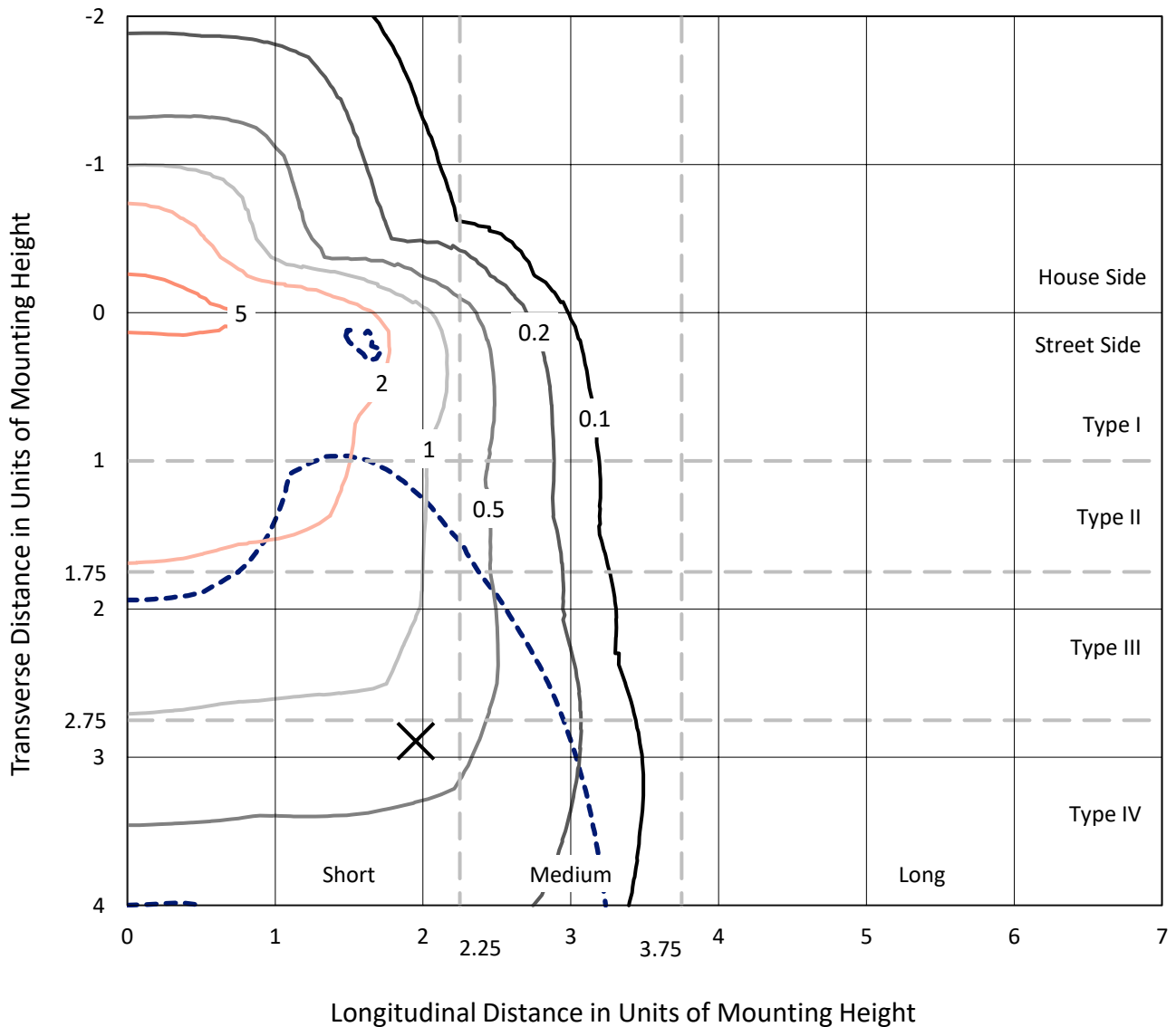
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

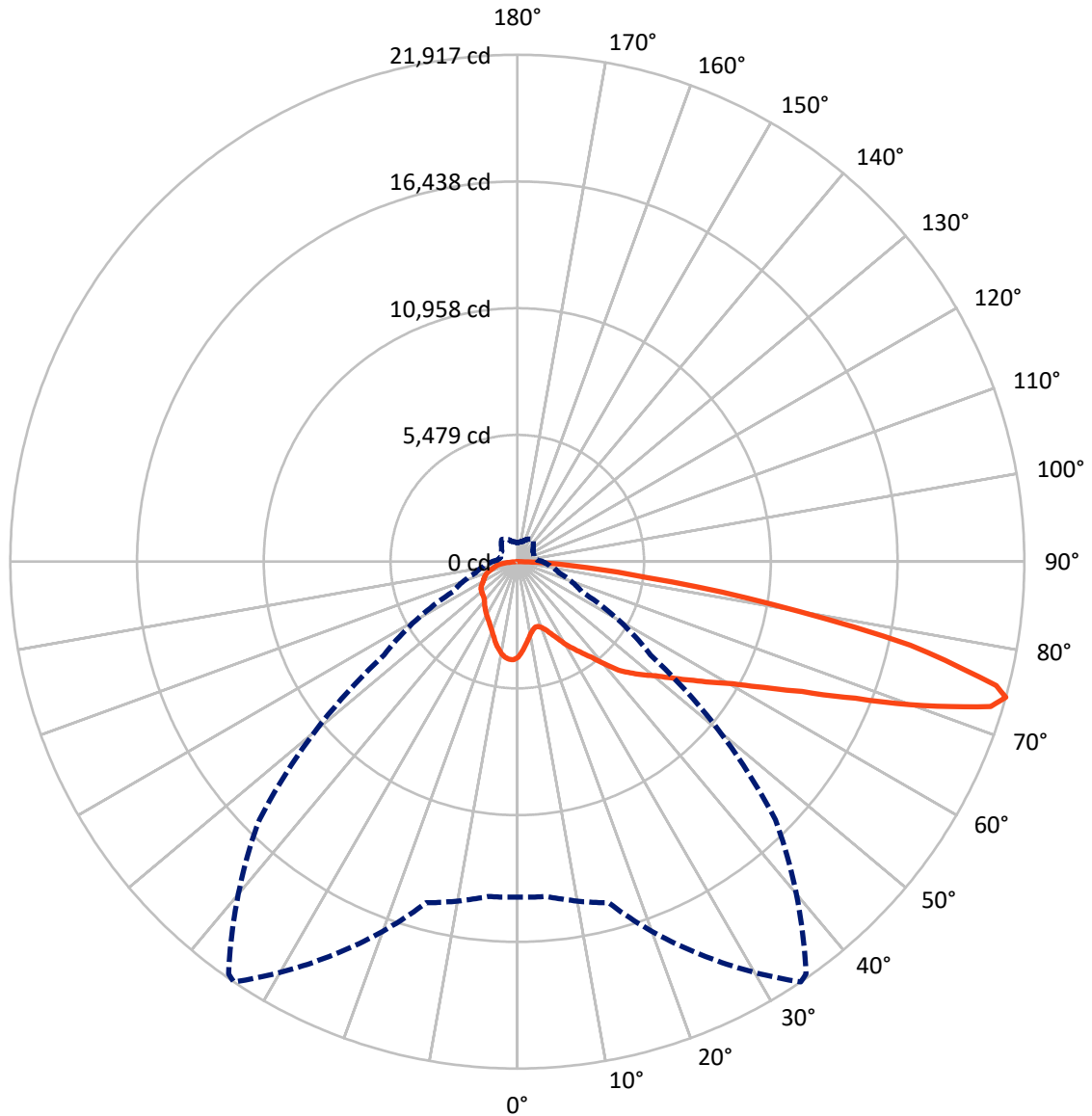
✕ Max cd
 - - - 1/2 Max cd



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	5758.1	0.0	5758.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	21299.9	0.0	21299.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	27058.0	0.0	27058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	1.4
10°-20°	1028.5	3.8
20°-30°	1695.7	6.3
30°-40°	2540.0	9.4
40°-50°	3692.5	13.6
50°-60°	5157.6	19.1
60°-70°	6457.0	23.9
70°-80°	5339.4	19.7
80°-90°	771.5	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°	27058.0	100.0
0°-180°	27058.0	100.0

Coefficient of Utilization



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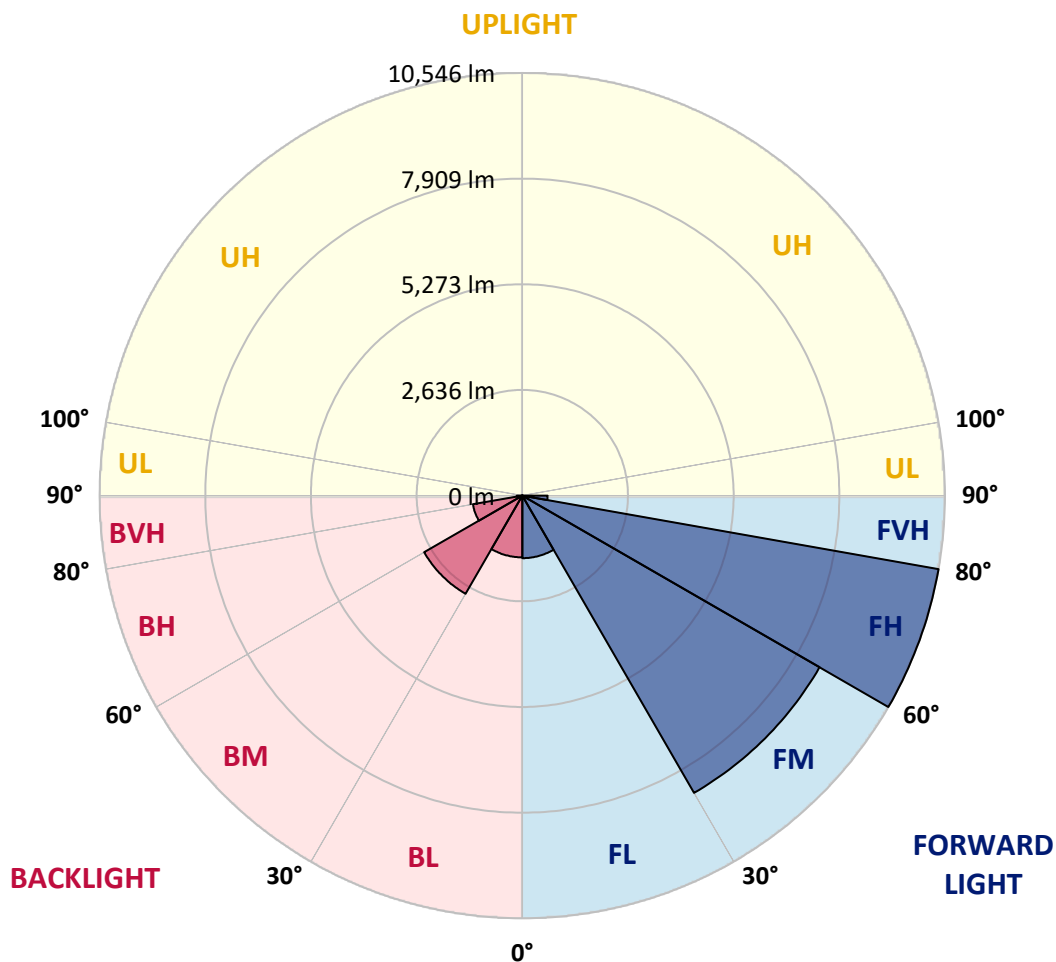
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1559.8	5.8			
FM	(30°-60°)	8562.3	31.6			
FH	(60°-80°)	10545.8	39.0			G4/12000
FVH	(80°-90°)	632.0	2.3			G4/750
BL	(0°-30°)	1540.2	5.7	B3/2500		
BM	(30°-60°)	2827.8	10.5	B3/5000		
BH	(60°-80°)	1250.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	139.5	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°	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2
2.5°	3817.9	3837.4	3847.9	3885.4	3894.4	3906.4	3937.9	3979.8	4033.8	4081.8	4123.7
5°	3500.1	3530.1	3548.1	3581.1	3645.5	3651.5	3735.5	3831.4	3940.8	4042.8	4126.7
7.5°	3198.8	3231.8	3246.8	3306.8	3392.2	3405.7	3528.6	3680.0	3862.9	4017.3	4146.2
10°	2972.5	2989.0	3022.0	3066.9	3168.9	3177.9	3338.3	3540.6	3777.5	4005.3	4179.2
12.5°	2849.6	2858.6	2866.1	2914.0	3014.5	3028.0	3195.9	3425.2	3710.0	4014.3	4233.2
15°	2867.6	2870.6	2837.6	2846.6	2927.5	2947.0	3113.4	3348.7	3668.0	4036.8	4314.1
17.5°	3019.0	3008.5	2927.5	2885.6	2942.5	2951.5	3096.9	3318.8	3648.5	4078.8	4398.0
20°	3257.3	3242.3	3102.9	3010.0	3043.0	3050.4	3150.9	3341.3	3668.0	4147.7	4528.5
22.5°	3554.1	3548.1	3336.8	3224.3	3222.8	3222.8	3275.3	3422.2	3726.5	4242.1	4664.9
25°	3969.3	3937.9	3662.0	3516.6	3476.2	3473.2	3467.2	3555.6	3801.4	4342.6	4826.8
27.5°	4395.0	4341.1	4095.2	3871.9	3785.0	3774.5	3735.5	3744.5	3897.4	4456.5	5011.1
30°	4777.3	4742.8	4512.0	4264.6	4161.2	4137.2	4029.3	3979.8	4057.8	4661.9	5304.9
32.5°	5069.6	5048.6	4868.7	4643.9	4491.0	4486.5	4329.1	4288.6	4308.1	4910.7	5640.7
35°	5306.4	5313.9	5222.5	5027.6	4852.2	4826.8	4721.8	4670.9	4613.9	5270.5	6063.4
37.5°	5630.2	5646.7	5640.7	5472.8	5258.5	5264.5	5240.5	5156.5	5005.1	5672.2	6532.6
40°	5987.0	5999.0	5997.5	5933.0	5820.6	5826.6	5817.6	5721.7	5495.3	6183.3	7054.3
42.5°	6480.1	6423.2	6274.8	6339.2	6405.2	6433.7	6495.1	6403.7	6093.4	6729.0	7544.4
45°	7031.8	6923.8	6588.1	6618.0	6862.4	6916.3	7255.1	7129.2	6742.5	7355.6	8121.5
47.5°	7379.5	7273.1	6989.8	6983.8	7307.6	7360.0	7959.6	7913.2	7333.1	8031.6	8826.1
50°	7689.8	7674.8	7355.6	7432.0	7748.3	7826.2	8727.1	8683.7	7922.2	8829.1	9593.5
52.5°	8150.0	8028.6	7773.8	7931.2	8349.4	8451.3	9488.6	9361.2	8463.3	9533.6	10338.5
55°	8356.9	8328.4	8313.4	8449.8	9023.9	9097.4	10229.1	9936.8	8925.0	10130.2	10905.2
57.5°	8910.0	8857.5	9005.9	9098.9	9818.4	9930.8	11002.6	10537.9	9329.7	10603.9	11181.0
60°	9626.5	9598.0	9734.5	9902.3	10705.8	10876.7	11884.0	11050.6	9655.0	10842.2	11029.6
62.5°	10696.8	10693.8	10668.3	11028.1	11963.5	12120.8	12895.8	11549.7	9706.0	10663.8	10247.1
65°	12231.8	12177.8	11956.0	12348.7	13528.4	13712.8	13949.6	11828.5	9398.7	9747.9	8628.2
67.5°	13837.2	13834.2	13654.3	14164.0	15775.4	15965.8	15267.2	11767.1	8545.8	7896.7	6127.9
70°	15168.3	15103.8	15333.2	16691.3	18646.0	18866.3	16420.0	11043.1	6806.9	5215.0	3641.1
72.5°	15487.6	15490.6	15967.3	18640.0	21402.6	21437.1	16835.2	8950.5	4555.4	2876.6	1821.3
74°	14504.2	14529.7	15268.7	18737.4	21916.8	21760.9	15773.9	7034.8	3080.4	1878.2	1313.1
75°	13239.1	13078.7	14147.5	18088.3	21383.1	21215.2	14531.2	5645.2	2350.4	1500.5	1149.7
77.5°	7078.2	7241.6	8890.5	13498.4	17371.8	17178.4	9852.9	2707.2	1269.6	1044.8	827.4
80°	2519.8	2779.1	3906.4	7063.2	11137.5	11197.5	4702.3	1241.2	893.4	770.5	584.6
82.5°	1028.3	1056.8	1677.4	3134.4	5655.7	5709.7	1920.2	737.5	638.6	530.6	349.3
85°	401.7	413.7	742.0	1409.1	2413.4	2570.8	664.1	389.7	392.7	304.3	178.4
87.5°	134.9	152.9	304.3	469.2	819.9	803.5	193.4	115.4	140.9	131.9	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°	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2	4131.2
2.5°	4144.7	4173.2	4192.7	4213.7	4233.2	4239.1	4234.7	4248.1	4249.6	4251.1	4252.6
5°	4168.7	4207.7	4245.1	4266.1	4275.1	4267.6	4242.1	4228.7	4216.7	4207.7	4210.7
7.5°	4201.7	4257.1	4291.6	4300.6	4276.6	4242.1	4179.2	4129.7	4098.2	4077.3	4075.8
10°	4252.6	4306.6	4335.1	4309.6	4243.6	4159.7	4060.8	3967.8	3897.4	3876.4	3874.9
12.5°	4317.1	4378.6	4377.1	4302.1	4186.7	4036.8	3876.4	3768.5	3672.5	3624.6	3644.0
15°	4401.0	4447.5	4404.0	4269.1	4086.3	3880.9	3683.0	3536.1	3428.2	3377.2	3380.2
17.5°	4498.5	4538.9	4423.5	4210.7	3945.3	3681.5	3452.2	3312.8	3227.3	3189.9	3186.9
20°	4619.9	4631.9	4423.5	4108.7	3764.0	3449.2	3230.3	3132.9	3084.9	3065.4	3071.4
22.5°	4750.3	4726.3	4399.5	3964.8	3525.6	3206.3	3059.4	3016.0	2992.0	2989.0	2992.0
25°	4897.2	4829.8	4350.1	3770.0	3276.8	2996.5	2911.0	2918.5	2923.0	2923.0	2933.5
27.5°	5077.1	4942.2	4267.6	3524.1	2986.0	2801.6	2777.6	2830.1	2854.1	2858.6	2866.1
30°	5313.9	5065.1	4131.2	3216.8	2738.7	2626.2	2668.2	2738.7	2765.6	2782.1	2779.1
32.5°	5595.7	5200.0	3946.8	2909.5	2539.3	2503.3	2554.3	2626.2	2656.2	2665.2	2653.2
35°	5927.0	5352.9	3704.0	2621.7	2365.4	2386.4	2446.4	2468.8	2495.8	2495.8	2501.8
37.5°	6283.8	5475.8	3407.2	2357.9	2230.5	2306.9	2350.4	2329.4	2317.4	2302.5	2309.9
40°	6646.5	5567.3	3022.0	2097.1	2095.6	2224.5	2236.5	2176.5	2128.6	2113.6	2106.1
42.5°	6962.8	5624.2	2674.2	1894.7	1968.2	2143.6	2152.6	2056.6	1980.2	1935.2	1920.2
45°	7336.1	5690.2	2333.9	1726.8	1849.8	2079.1	2101.6	1972.7	1860.2	1765.8	1741.8
47.5°	7847.2	5840.1	2065.6	1596.4	1764.3	2038.6	2070.1	1903.7	1755.3	1632.4	1612.9
50°	8424.3	6045.4	1857.3	1508.0	1698.4	2002.7	2041.6	1833.3	1657.9	1521.5	1506.5
52.5°	8953.5	6156.4	1677.4	1428.5	1633.9	1936.7	2004.2	1782.3	1561.9	1410.6	1397.1
55°	9242.8	5976.5	1500.5	1350.6	1545.5	1851.3	1951.7	1711.8	1469.0	1352.1	1332.6
57.5°	9281.8	5604.7	1340.1	1266.6	1452.5	1746.3	1854.3	1626.4	1409.1	1311.6	1295.1
60°	8980.5	5050.1	1215.7	1197.7	1358.1	1627.9	1744.8	1551.5	1347.6	1266.6	1250.2
62.5°	8231.0	4447.5	1128.7	1134.7	1262.2	1503.5	1663.9	1479.5	1289.1	1217.2	1202.2
65°	6941.8	3671.0	1044.8	1070.3	1176.7	1406.1	1590.4	1419.5	1230.7	1179.7	1166.2
67.5°	4822.3	2650.2	975.8	1002.8	1095.8	1307.1	1505.0	1355.1	1164.7	1137.7	1116.7
70°	2669.7	1630.9	894.9	926.4	1011.8	1196.2	1409.1	1257.7	1068.8	1056.8	1026.8
72.5°	1403.1	1038.8	803.5	837.9	897.9	1053.8	1262.2	1151.2	974.3	923.4	884.4
74°	1095.8	851.4	742.0	778.0	818.4	969.8	1175.2	1074.8	906.9	846.9	817.0
75°	954.9	758.5	689.5	736.0	772.0	912.9	1107.8	1020.8	869.4	812.5	785.5
77.5°	674.5	568.1	563.6	619.1	638.6	800.5	998.3	929.4	775.0	715.0	689.5
80°	473.7	425.7	446.7	481.2	508.2	707.5	926.4	803.5	635.6	565.1	556.1
82.5°	308.8	278.8	319.3	350.8	359.8	521.6	748.0	610.1	463.2	376.2	349.3
85°	142.4	139.4	182.9	178.4	176.9	254.8	443.7	356.8	266.8	199.4	187.4
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)