

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: P652530

Luminaire Tested: **GALN-SA7B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652530
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-SA7B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 33258.2 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

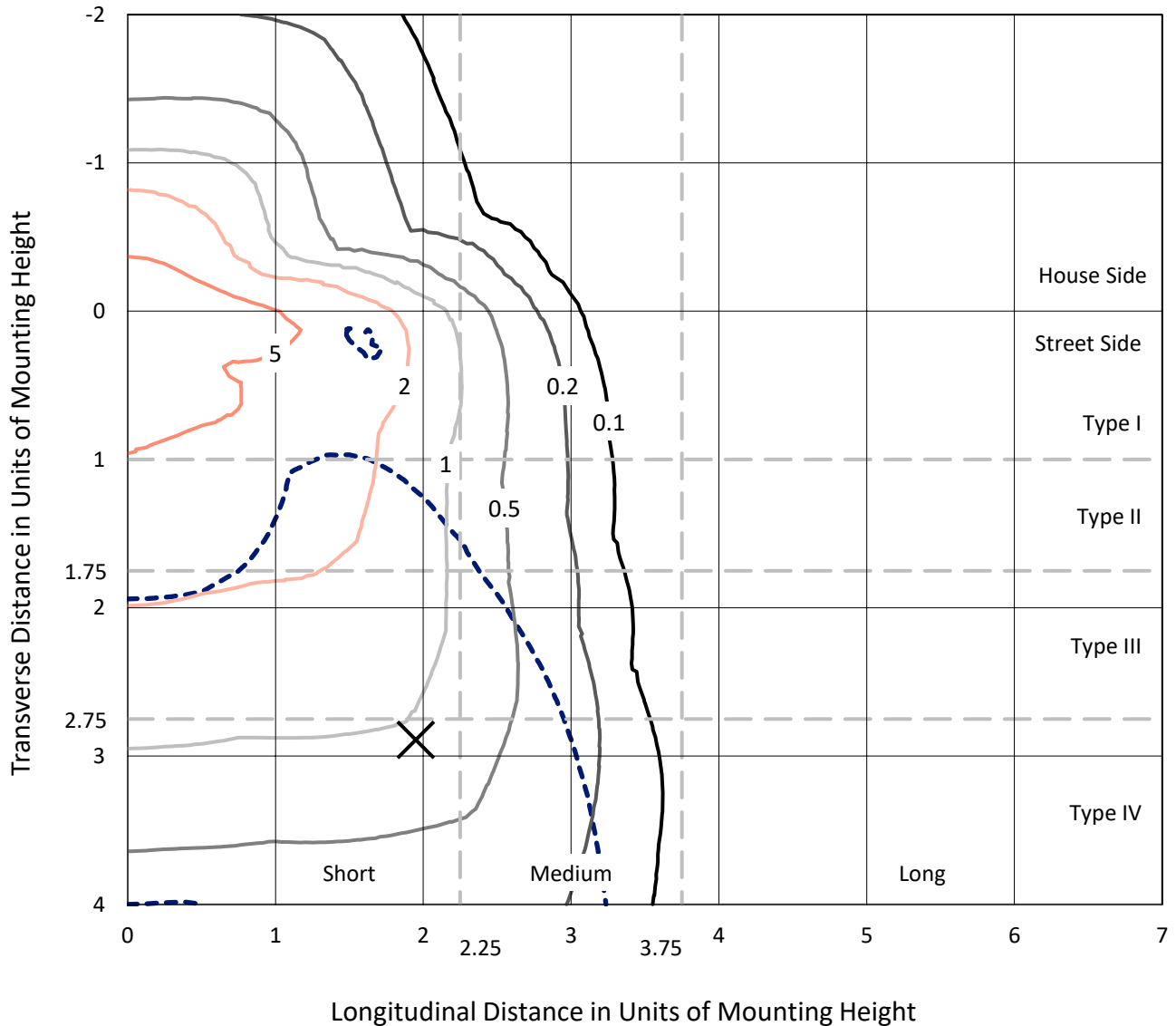
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

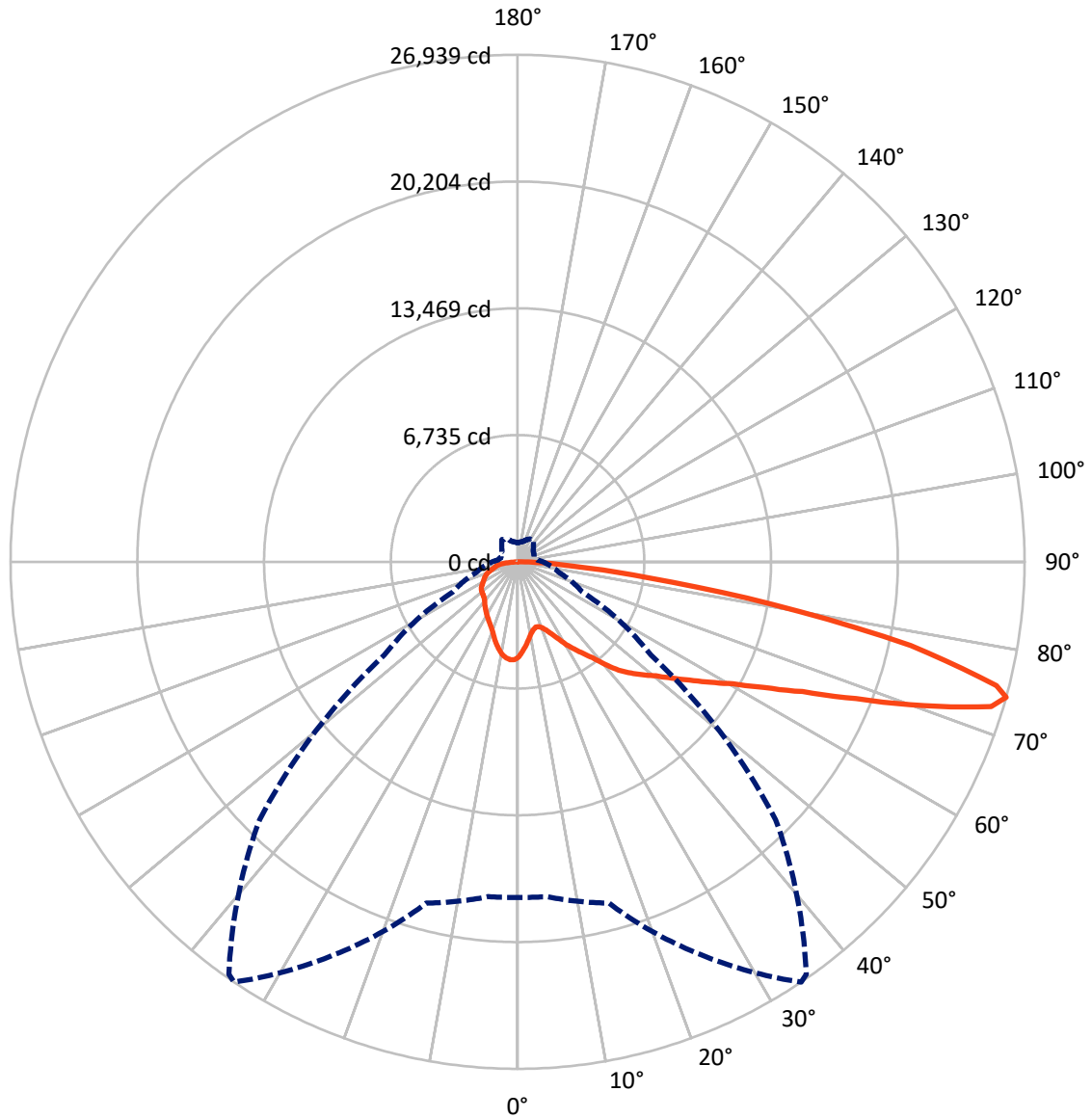
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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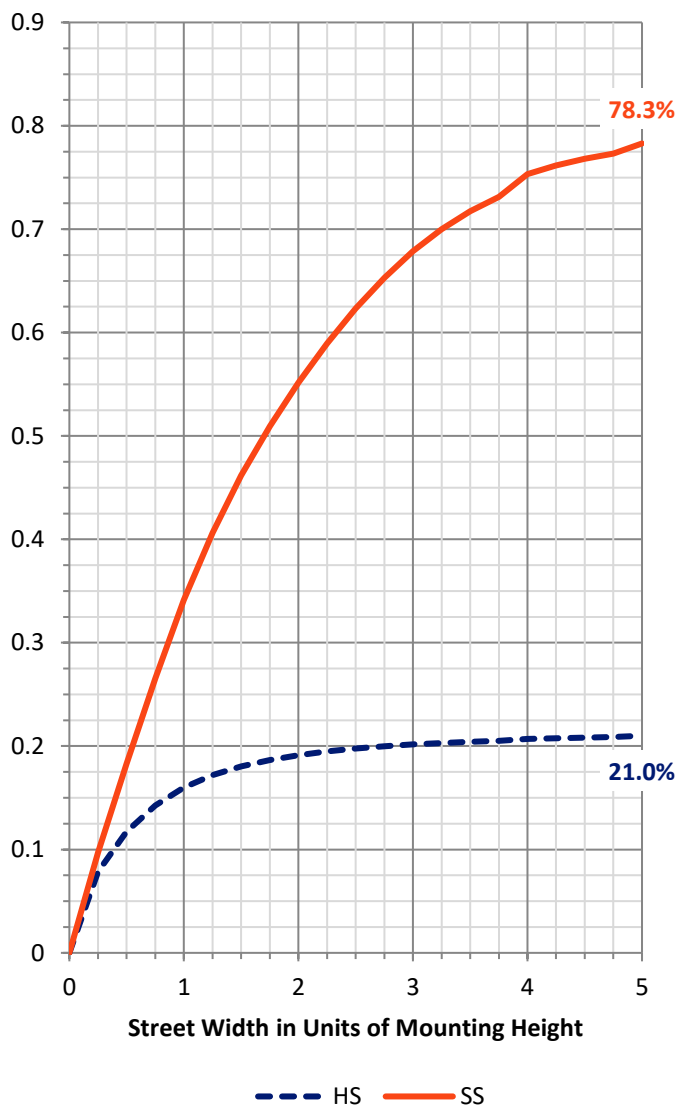
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7077.6	0.0	7077.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26180.6	0.0	26180.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	33258.2	0.0	33258.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	1.4
10°-20°	1264.2	3.8
20°-30°	2084.3	6.3
30°-40°	3122.1	9.4
40°-50°	4538.6	13.6
50°-60°	6339.4	19.1
60°-70°	7936.6	23.9
70°-80°	6562.9	19.7
80°-90°	948.3	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°	33258.2	100.0
0°-180°	33258.2	100.0

Coefficient of Utilization



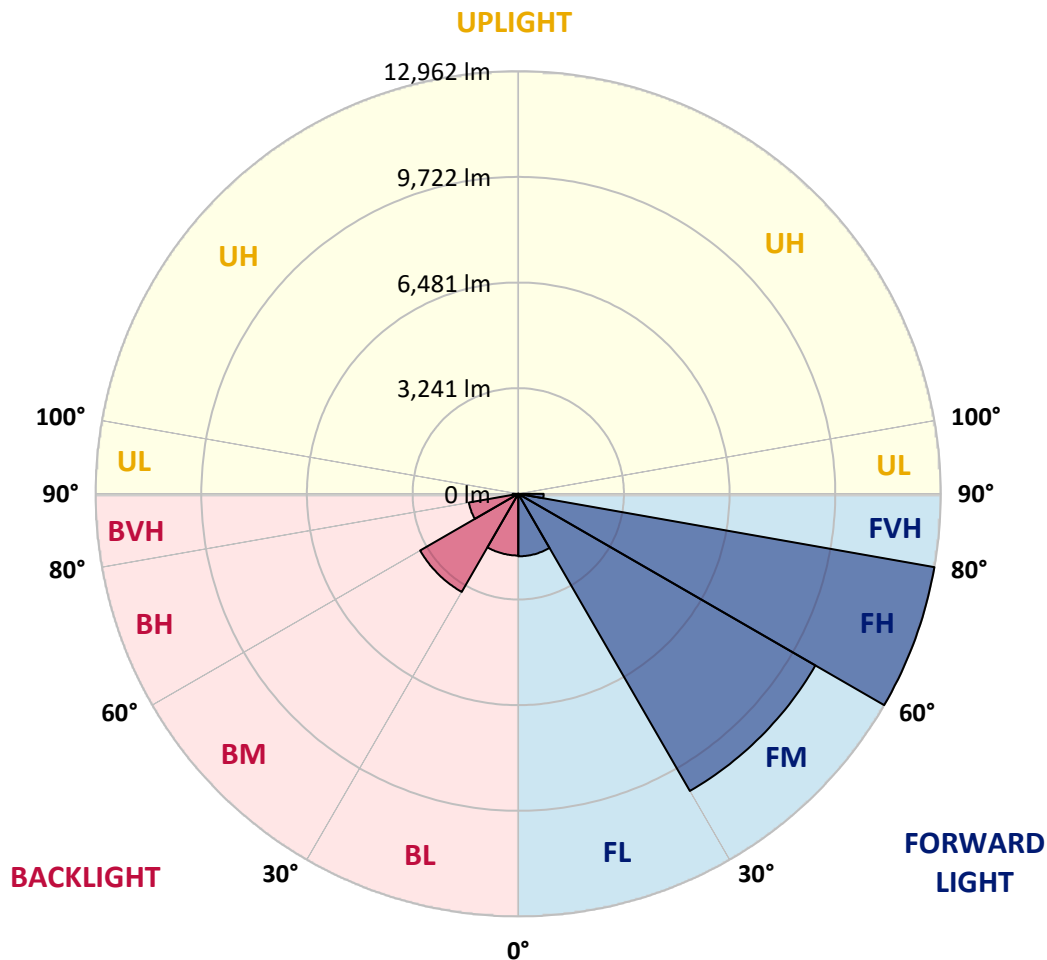
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.2	5.8			
FM (30°-60°)	10524.3	31.6			
FH (60°-80°)	12962.3	39.0			G5
FVH (80°-90°)	776.9	2.3			G5
BL (0°-30°)	1893.1	5.7	B3/2500		
BM (30°-60°)	3475.8	10.5	B3/5000		
BH (60°-80°)	1537.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	171.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9
2.5°	4692.8	4716.7	4729.6	4775.7	4786.7	4801.5	4840.2	4891.8	4958.1	5017.1	5068.6
5°	4302.2	4339.1	4361.2	4401.7	4480.9	4488.2	4591.4	4709.3	4843.9	4969.1	5072.3
7.5°	3931.8	3972.4	3990.8	4064.5	4169.5	4186.1	4337.2	4523.3	4748.0	4937.8	5096.3
10°	3653.6	3673.9	3714.4	3769.7	3895.0	3906.0	4103.2	4351.9	4643.1	4923.1	5136.8
12.5°	3502.5	3513.6	3522.8	3581.7	3705.2	3721.8	3928.1	4210.0	4560.2	4934.1	5203.2
15°	3524.6	3528.3	3487.8	3498.9	3598.4	3622.3	3826.8	4116.1	4508.5	4961.8	5302.7
17.5°	3710.7	3697.9	3598.4	3546.7	3616.8	3627.8	3806.5	4079.3	4484.5	5013.4	5405.9
20°	4003.7	3985.2	3813.9	3699.7	3740.3	3749.4	3872.9	4106.9	4508.5	5098.1	5566.2
22.5°	4368.5	4361.2	4101.4	3963.1	3961.4	3961.4	4025.8	4206.3	4580.4	5214.2	5733.8
25°	4878.9	4840.2	4501.2	4322.5	4272.7	4269.0	4261.7	4370.3	4672.5	5337.7	5932.8
27.5°	5402.2	5335.8	5033.6	4759.1	4652.2	4639.4	4591.4	4602.5	4790.4	5477.7	6159.4
30°	5871.9	5829.6	5545.9	5241.9	5114.7	5085.3	4952.6	4891.8	4987.6	5730.1	6520.5
32.5°	6231.2	6205.5	5984.4	5708.0	5520.1	5514.5	5321.1	5271.3	5295.3	6035.9	6933.2
35°	6522.4	6531.5	6419.2	6179.7	5964.1	5932.8	5803.8	5741.2	5671.1	6478.1	7452.9
37.5°	6920.3	6940.6	6933.2	6726.9	6463.4	6470.7	6441.3	6338.1	6152.0	6972.0	8029.5
40°	7358.8	7373.6	7371.8	7292.6	7154.3	7161.7	7150.7	7032.7	6754.5	7600.2	8670.7
42.5°	7965.0	7895.1	7712.6	7791.9	7872.9	7907.9	7983.4	7871.1	7489.7	8270.9	9273.2
45°	8643.0	8510.4	8097.7	8134.6	8434.9	8501.2	8917.6	8762.8	8287.5	9041.0	9982.5
47.5°	9070.5	8939.7	8591.5	8584.1	8982.0	9046.6	9783.5	9726.4	9013.4	9872.0	10848.5
50°	9451.9	9433.5	9041.0	9135.0	9523.7	9619.6	10726.9	10673.5	9737.5	10852.2	11791.8
52.5°	10017.6	9868.3	9555.1	9748.5	10262.6	10387.9	11662.9	11506.3	10402.7	11718.2	12707.6
55°	10271.8	10236.8	10218.4	10386.0	11091.7	11182.0	12573.0	12213.8	10970.1	12451.4	13404.0
57.5°	10951.7	10887.2	11069.6	11183.9	12068.3	12206.4	13523.8	12952.6	11467.5	13033.6	13743.0
60°	11832.4	11797.4	11965.1	12171.4	13159.0	13369.0	14607.2	13582.7	11867.4	13326.7	13556.9
62.5°	13147.9	13144.2	13112.9	13555.1	14704.8	14898.2	15850.8	14196.2	11930.0	13107.4	12595.2
65°	15034.6	14968.3	14695.6	15178.4	16628.3	16855.0	17146.1	14539.0	11552.3	11981.6	10605.3
67.5°	17007.9	17004.3	16783.2	17409.5	19390.3	19624.2	18765.7	14463.4	10503.9	9706.1	7532.1
70°	18644.0	18564.8	18846.7	20515.9	22918.6	23189.4	20182.5	13573.5	8366.7	6410.0	4475.4
72.5°	19036.5	19040.2	19626.1	22911.2	26306.9	26349.3	20692.9	11001.5	5599.3	3535.7	2238.6
74°	17827.8	17859.1	18767.5	23031.0	26938.8	26747.2	19388.4	8646.7	3786.3	2308.6	1614.0
75°	16272.8	16075.6	17389.3	22233.2	26282.9	26076.6	17861.0	6938.8	2889.0	1844.3	1413.2
77.5°	8700.1	8901.0	10927.7	16591.5	21352.5	21114.8	12110.6	3327.5	1560.6	1284.2	1017.0
80°	3097.2	3416.0	4801.5	8681.7	13689.6	13763.3	5779.9	1525.6	1098.1	947.1	718.6
82.5°	1263.9	1298.9	2061.7	3852.6	6951.7	7018.0	2360.2	906.5	784.9	652.2	429.3
85°	493.8	508.6	912.1	1732.0	2966.4	3159.9	816.2	479.0	482.7	374.0	219.2
87.5°	165.8	188.0	374.0	576.7	1007.9	987.6	237.7	141.9	173.2	162.1	68.2
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°	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9	5077.9
2.5°	5094.4	5129.4	5153.4	5179.2	5203.2	5210.5	5205.0	5221.6	5223.5	5225.3	5227.1
5°	5124.0	5171.8	5217.9	5243.7	5254.7	5245.6	5214.2	5197.6	5182.9	5171.8	5175.5
7.5°	5164.5	5232.6	5275.0	5286.1	5256.6	5214.2	5136.8	5076.0	5037.3	5011.5	5009.7
10°	5227.1	5293.4	5328.4	5297.1	5216.1	5112.9	4991.3	4877.0	4790.4	4764.7	4762.8
12.5°	5306.4	5381.9	5380.0	5287.9	5146.1	4961.8	4764.7	4632.0	4514.1	4455.1	4479.1
15°	5409.5	5466.7	5413.2	5247.3	5022.6	4770.2	4526.9	4346.4	4213.7	4151.1	4154.8
17.5°	5529.2	5579.0	5437.1	5175.5	4849.4	4525.1	4243.3	4071.9	3966.8	3920.8	3917.1
20°	5678.5	5693.2	5437.1	5050.2	4626.4	4239.6	3970.5	3850.8	3791.8	3767.8	3775.2
22.5°	5838.8	5809.3	5407.6	4873.3	4333.5	3941.1	3760.5	3707.0	3677.6	3673.9	3677.6
25°	6019.4	5936.5	5346.9	4633.8	4027.6	3683.1	3578.1	3587.3	3592.8	3592.8	3605.7
27.5°	6240.5	6074.6	5245.6	4331.7	3670.2	3443.6	3414.1	3478.6	3508.1	3513.6	3522.8
30°	6531.5	6225.8	5077.9	3954.0	3366.2	3228.0	3279.6	3366.2	3399.4	3419.7	3416.0
32.5°	6878.0	6391.5	4851.2	3576.3	3121.1	3077.0	3139.6	3228.0	3264.8	3275.9	3261.1
35°	7285.2	6579.5	4552.8	3222.5	2907.4	2933.2	3006.9	3034.6	3067.7	3067.7	3075.1
37.5°	7723.7	6730.6	4187.9	2898.3	2741.6	2835.6	2889.0	2863.2	2848.5	2830.0	2839.2
40°	8169.6	6843.0	3714.4	2577.7	2575.8	2734.3	2749.0	2675.3	2616.4	2597.9	2588.7
42.5°	8558.3	6912.9	3287.0	2328.9	2419.1	2634.8	2645.8	2527.9	2433.9	2378.6	2360.2
45°	9017.1	6994.0	2868.7	2122.5	2273.6	2555.5	2583.1	2424.7	2286.5	2170.5	2140.9
47.5°	9645.3	7178.3	2538.9	1962.2	2168.6	2505.8	2544.4	2339.9	2157.5	2006.5	1982.5
50°	10354.7	7430.7	2282.8	1853.6	2087.5	2461.5	2509.5	2253.4	2037.7	1870.1	1851.7
52.5°	11005.2	7567.1	2061.7	1755.8	2008.3	2380.5	2463.4	2190.7	1919.8	1733.8	1717.2
55°	11360.7	7346.0	1844.3	1660.0	1899.6	2275.5	2398.9	2104.1	1805.6	1661.9	1637.9
57.5°	11408.6	6889.1	1647.2	1556.9	1785.4	2146.5	2279.1	1999.1	1732.0	1612.2	1591.9
60°	11038.3	6207.3	1494.3	1472.2	1669.3	2000.9	2144.6	1907.0	1656.3	1556.9	1536.6
62.5°	10117.1	5466.7	1387.4	1394.7	1551.4	1848.0	2045.1	1818.5	1584.5	1496.1	1477.6
65°	8532.5	4512.2	1284.2	1315.5	1446.4	1728.3	1954.9	1744.8	1512.7	1450.1	1433.5
67.5°	5927.3	3257.5	1199.4	1232.7	1346.9	1606.6	1849.9	1665.6	1431.6	1398.4	1372.7
70°	3281.4	2004.6	1099.9	1138.6	1243.7	1470.3	1732.0	1545.8	1313.7	1298.9	1262.1
72.5°	1724.6	1276.8	987.6	1030.0	1103.6	1295.2	1551.4	1415.0	1197.6	1134.9	1087.1
74°	1346.9	1046.5	912.1	956.2	1006.0	1192.1	1444.5	1321.0	1114.7	1041.0	1004.2
75°	1173.7	932.3	847.6	904.7	948.9	1122.1	1361.6	1254.7	1068.7	998.6	965.5
77.5°	829.1	698.3	692.7	760.9	784.9	983.9	1227.1	1142.3	952.6	878.8	847.6
80°	582.2	523.3	549.1	591.5	624.6	869.7	1138.6	987.6	781.2	694.6	683.6
82.5°	379.5	342.7	392.4	431.2	442.2	641.2	919.4	749.9	569.4	462.5	429.3
85°	175.0	171.3	224.8	219.2	217.4	313.2	545.4	438.5	328.0	245.1	230.3
87.5°	44.2	42.4	55.3	46.1	55.3	47.9	49.8	12.9	1.9	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)