

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: P453750

Luminaire Tested: **GALN-SA4D-740-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30348 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

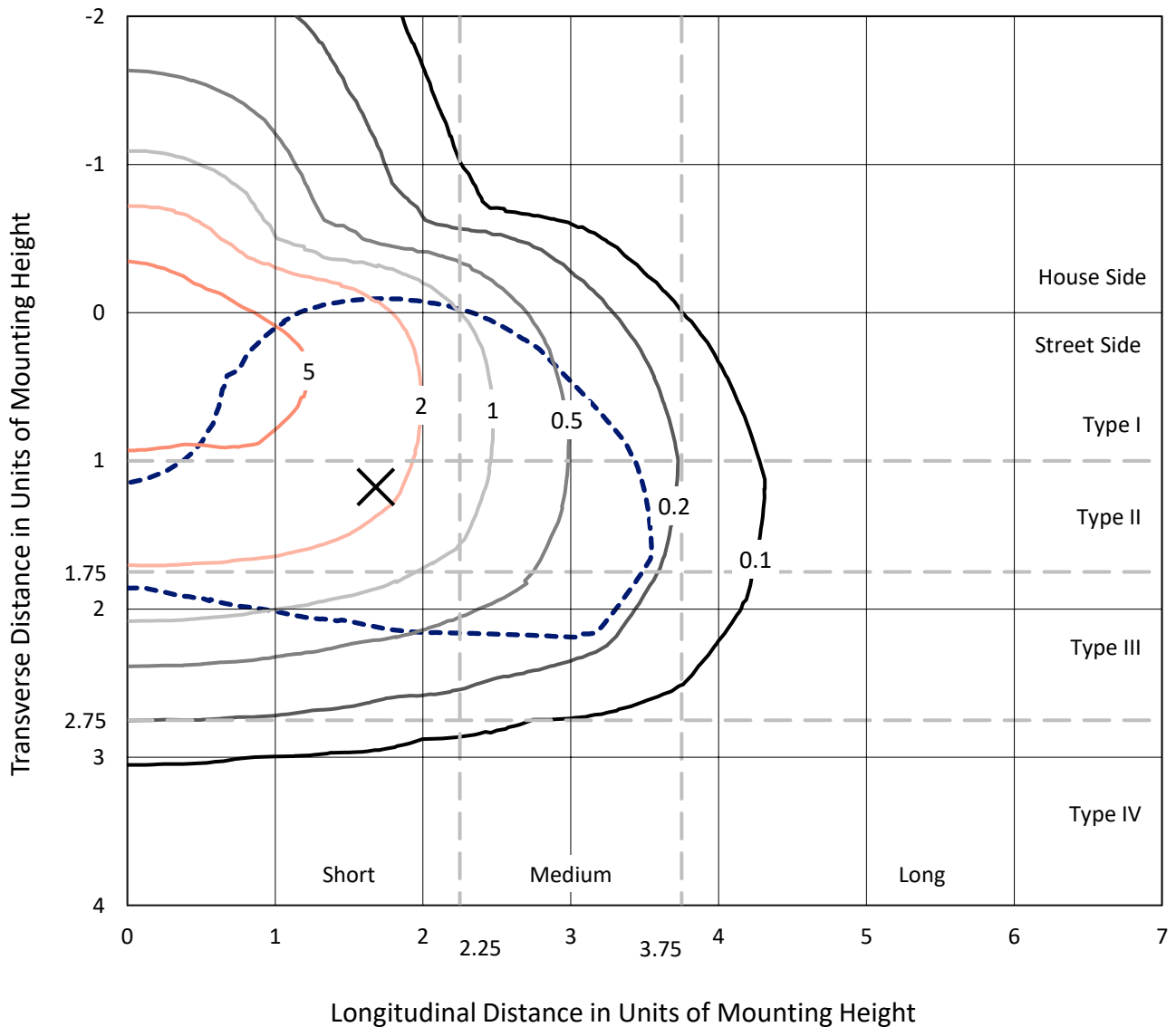
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

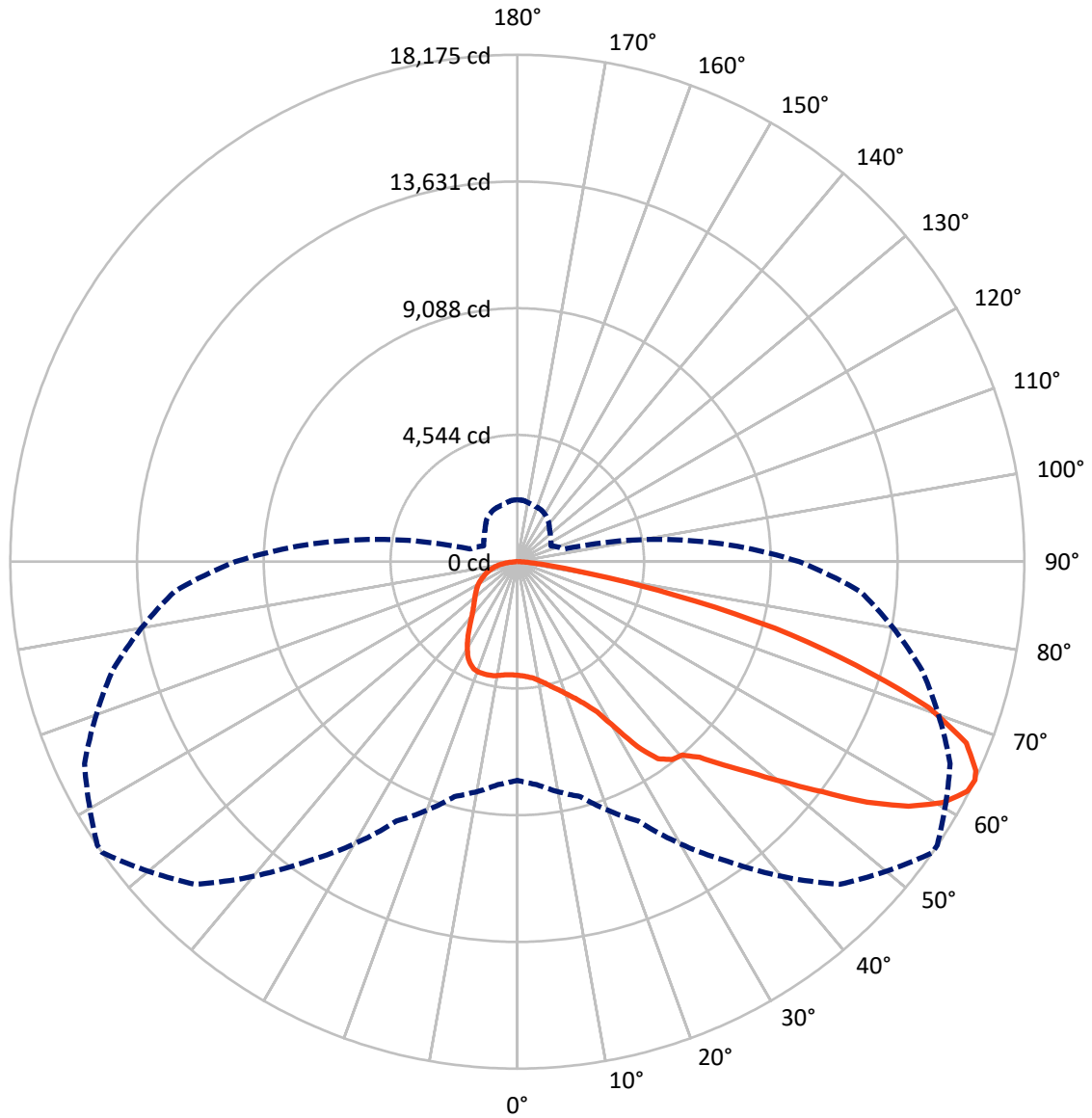
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7372.1	0.0	7372.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	22975.9	0.0	22975.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	30348.0	0.0	30348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	1.3
10°-20°	1249.7	4.1
20°-30°	2224.9	7.3
30°-40°	3423.2	11.3
40°-50°	4852.7	16.0
50°-60°	7024.1	23.1
60°-70°	7269.2	24.0
70°-80°	3404.2	11.2
80°-90°	504.0	1.7
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°	30348.0	100.0
0°-180°	30348.0	100.0

Coefficient of Utilization



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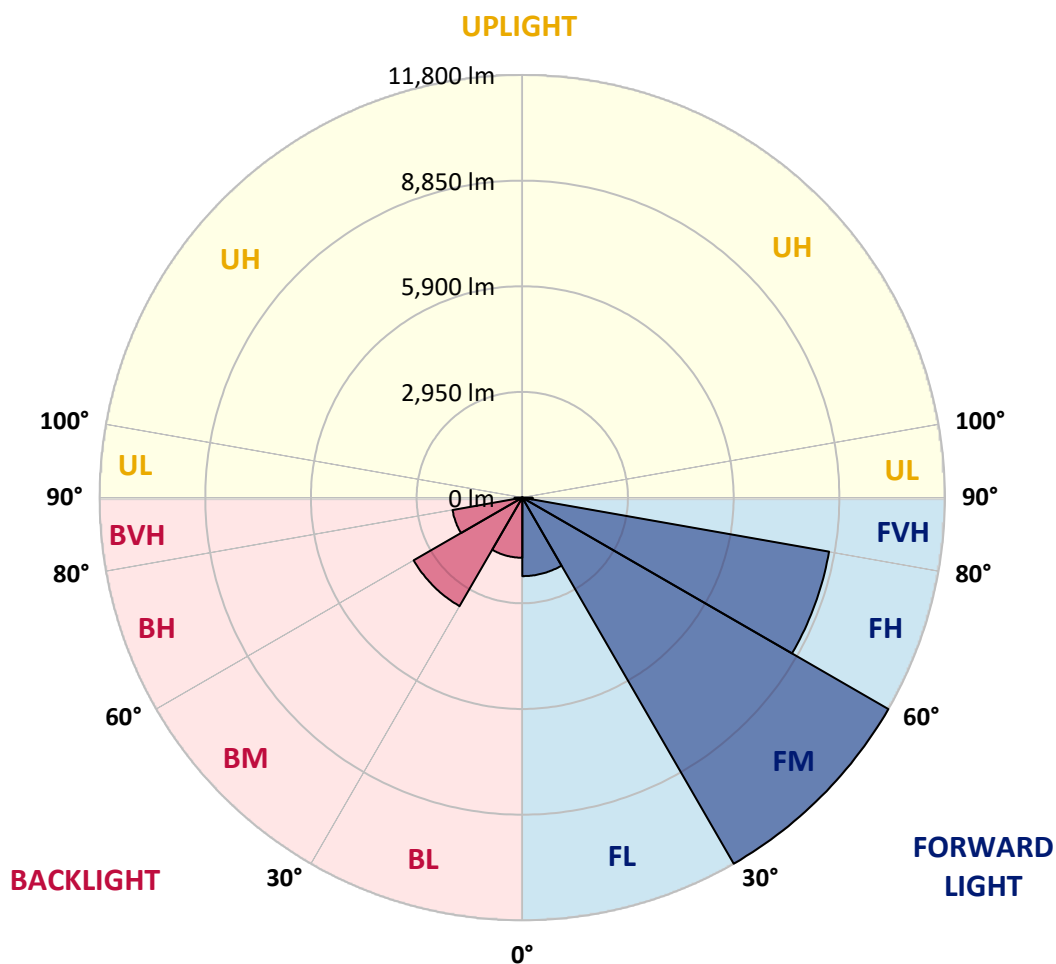
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2191.6	7.2			
FM	(30°-60°)	11800.1	38.9			
FH	(60°-80°)	8695.6	28.7			G4/12000
FVH	(80°-90°)	288.6	1.0			G3/500
BL	(0°-30°)	1679.1	5.5	B3/2500		
BM	(30°-60°)	3499.8	11.5	B3/5000		
BH	(60°-80°)	1977.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	215.4	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8
2.5°	4117.5	4115.8	4120.8	4115.8	4119.2	4107.3	4102.2	4105.6	4100.5	4092.1	4076.9
5°	4168.2	4166.5	4168.2	4161.4	4164.8	4158.1	4146.2	4149.6	4141.1	4122.5	4100.5
7.5°	4254.5	4247.7	4247.7	4246.0	4239.3	4229.1	4220.7	4217.3	4208.8	4185.1	4151.3
10°	4366.1	4366.1	4367.8	4354.3	4362.7	4344.1	4335.7	4334.0	4305.2	4274.8	4227.4
12.5°	4513.3	4521.8	4516.7	4509.9	4506.5	4499.8	4471.0	4477.8	4445.6	4393.2	4335.7
15°	4696.0	4709.5	4701.1	4697.7	4689.2	4663.9	4652.0	4646.9	4604.7	4528.5	4452.4
17.5°	4937.9	4921.0	4914.2	4905.8	4870.2	4851.6	4831.3	4828.0	4790.7	4701.1	4582.7
20°	5149.4	5173.0	5159.5	5151.1	5115.5	5080.0	5064.8	5059.7	5027.6	4929.4	4740.0
22.5°	5401.4	5406.5	5411.6	5391.3	5374.4	5347.3	5320.2	5311.8	5299.9	5198.4	4966.7
25°	5670.4	5690.7	5673.8	5653.5	5633.2	5631.5	5656.9	5653.5	5648.4	5550.3	5267.8
27.5°	6108.5	6127.1	6132.2	6110.2	6032.4	6039.2	6096.7	6115.3	6193.1	6030.7	5655.2
30°	6355.5	6374.1	6416.4	6499.3	6622.8	6731.0	6869.8	6912.1	6986.5	6680.3	6115.3
32.5°	6507.8	6514.5	6590.6	6744.6	7115.1	7519.4	7896.6	7911.8	7959.2	7529.5	6536.5
35°	6748.0	6753.0	6813.9	6983.1	7417.9	8091.1	8674.7	8693.4	8654.4	7793.4	6732.7
37.5°	7044.0	7057.5	7096.4	7236.9	7756.2	8569.9	8997.9	8984.3	8639.2	8003.2	7079.5
40°	7475.4	7475.4	7429.7	7619.2	8113.1	8843.9	9111.2	9087.5	8996.2	8610.5	7607.3
42.5°	7856.0	7849.2	7957.5	8086.1	8559.7	9266.8	9586.5	9625.5	9776.0	9373.4	8207.9
45°	8351.6	8382.1	8443.0	8676.4	9319.3	9989.2	10401.9	10439.1	10652.3	10271.7	8909.9
47.5°	8852.4	8862.5	9053.7	9364.9	10259.8	10968.6	11306.9	11367.8	11562.4	11322.2	9666.1
50°	9207.6	9304.0	9610.2	10100.8	11229.1	12162.9	12426.8	12499.6	12843.0	12465.7	10547.4
52.5°	9583.2	9677.9	10051.7	10799.5	12342.2	13384.3	13709.1	13758.1	14115.1	13622.8	11449.0
55°	9904.6	9992.5	10417.1	11418.6	13228.7	14631.0	15219.7	15162.2	15333.1	14514.3	12144.3
57.5°	9957.0	10028.1	10562.6	11814.4	13895.2	15700.1	16544.3	16578.1	16380.2	15180.8	12717.8
60°	9551.0	9696.5	10310.6	11772.1	14194.6	16444.5	17532.2	17555.9	16994.2	15522.5	12946.1
62.5°	8832.1	8816.8	9559.5	11092.1	13775.1	16613.6	18114.1	18088.7	17234.5	15358.4	12724.5
64°	7839.1	8021.8	8715.3	10256.4	13098.4	16353.1	18175.0	18161.5	17119.4	15016.7	12347.3
65°	7233.5	7223.3	7908.4	9573.0	12425.1	15960.7	18066.8	18048.1	16879.2	14710.5	12054.7
67.5°	5222.1	5245.8	5922.4	7387.4	10100.8	14426.3	17361.3	17292.0	15931.9	13695.5	10941.5
70°	3163.4	3176.9	3708.1	4900.7	7250.4	11662.2	15649.4	15652.8	14482.2	12179.8	9312.5
72.5°	1666.3	1701.8	1914.9	2782.8	4403.3	8182.5	12695.8	12996.9	12433.6	10395.1	7357.0
75°	927.0	932.1	1082.7	1371.9	2246.5	4579.3	9542.6	9628.8	9843.7	8366.9	5440.3
77.5°	707.1	717.3	764.6	886.4	1223.1	2123.0	5775.3	6208.3	6937.4	5898.8	3104.2
80°	573.5	583.6	624.2	697.0	813.7	1006.5	2682.9	2916.4	3713.2	2618.7	1211.2
82.5°	446.6	439.8	492.3	539.6	592.1	595.5	1101.3	1218.0	1512.3	1126.6	524.4
85°	331.6	331.6	373.9	363.7	382.3	348.5	485.5	536.3	605.6	478.7	243.6
87.5°	131.9	145.5	245.3	219.9	170.9	137.0	179.3	189.5	209.8	187.8	101.5
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°	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8	4071.8
2.5°	4078.6	4083.6	4071.8	4063.3	4059.9	4054.9	4049.8	4051.5	4058.3	4065.0	4063.3
5°	4098.9	4100.5	4080.2	4070.1	4063.3	4056.6	4056.6	4061.6	4075.2	4085.3	4085.3
7.5°	4149.6	4149.6	4120.8	4102.2	4092.1	4080.2	4076.9	4078.6	4088.7	4102.2	4103.9
10°	4229.1	4222.3	4185.1	4156.4	4137.8	4109.0	4083.6	4070.1	4075.2	4083.6	4083.6
12.5°	4325.5	4306.9	4259.6	4220.7	4175.0	4120.8	4068.4	4041.3	4039.6	4048.1	4044.7
15°	4428.7	4408.4	4342.4	4271.4	4191.9	4112.4	4049.8	4010.9	3980.4	3972.0	3990.6
17.5°	4548.8	4506.5	4415.2	4317.1	4198.7	4095.5	3997.4	3917.8	3863.7	3848.5	3853.6
20°	4694.3	4638.5	4515.0	4361.1	4193.6	4034.6	3882.3	3775.7	3687.8	3660.7	3664.1
22.5°	4895.6	4799.2	4618.2	4383.0	4151.3	3919.5	3708.1	3569.4	3462.8	3420.5	3445.9
25°	5124.0	5019.1	4716.3	4378.0	4041.3	3735.1	3501.7	3320.7	3224.3	3161.7	3175.2
27.5°	5438.6	5252.6	4821.2	4332.3	3884.0	3510.2	3239.5	3068.6	2980.7	2948.5	2963.8
30°	5841.2	5555.4	4934.5	4208.8	3635.3	3226.0	2975.6	2864.0	2811.5	2770.9	2784.4
32.5°	6132.2	5768.5	4959.9	4000.7	3366.4	2967.1	2796.3	2713.4	2655.9	2617.0	2625.4
35°	6340.3	5949.5	4948.1	3745.3	3085.6	2754.0	2654.2	2586.5	2493.5	2408.9	2393.7
37.5°	6619.4	6176.2	4861.8	3466.2	2808.1	2610.2	2539.2	2414.0	2280.3	2167.0	2161.9
40°	7047.4	6441.8	4677.4	3138.0	2571.3	2503.6	2417.4	2255.0	2111.2	2019.8	2013.1
42.5°	7488.9	6687.1	4427.0	2792.9	2376.8	2392.0	2287.1	2126.4	2038.4	1979.2	1972.5
45°	8028.5	6952.7	4156.4	2493.5	2233.0	2287.1	2173.8	2080.7	2028.3	1989.4	1979.2
47.5°	8612.2	7225.0	3851.9	2224.5	2111.2	2190.7	2126.4	2084.1	2055.3	2028.3	2016.4
50°	9241.4	7529.5	3566.0	2008.0	2001.2	2090.9	2121.3	2106.1	2089.2	2080.7	2070.6
52.5°	9931.6	7840.8	3325.8	1855.7	1904.8	2019.8	2123.0	2134.9	2134.9	2129.8	2123.0
55°	10398.5	8057.3	3082.2	1732.2	1806.7	1962.3	2119.6	2165.3	2182.2	2175.5	2168.7
57.5°	10743.6	8175.7	2776.0	1625.7	1723.8	1906.5	2101.0	2168.7	2185.6	2194.1	2190.7
60°	10814.7	8065.8	2375.1	1514.0	1634.1	1825.3	2033.4	2117.9	2139.9	2192.4	2197.4
62.5°	10495.0	7727.4	1975.8	1404.1	1524.2	1701.8	1942.0	2060.4	2104.4	2185.6	2194.1
64°	10102.5	7348.5	1754.2	1334.7	1453.1	1632.4	1896.3	2045.2	2102.7	2211.0	2217.7
65°	9814.9	7072.8	1615.5	1290.7	1407.4	1586.8	1871.0	2050.3	2117.9	2249.9	2260.0
67.5°	8755.9	6123.7	1336.4	1187.5	1299.2	1508.9	1876.0	2092.6	2114.6	2265.1	2263.4
70°	7245.3	4875.3	1119.9	1092.8	1194.3	1446.4	1855.7	2024.9	2026.6	2126.4	2102.7
72.5°	5425.1	3603.2	971.0	994.7	1077.6	1297.5	1752.5	1933.5	1904.8	1918.3	1894.6
75°	3726.7	2383.5	835.7	889.8	955.8	1146.9	1607.1	1755.9	1710.3	1693.3	1676.4
77.5°	1989.4	1317.8	695.3	786.6	830.6	991.3	1402.4	1546.2	1498.8	1432.8	1410.8
80°	805.2	620.8	559.9	651.3	676.7	798.5	1167.2	1256.9	1221.4	1106.3	1069.1
82.5°	404.3	372.2	439.8	512.6	514.3	570.1	867.8	952.4	872.9	732.5	700.3
85°	211.5	218.2	302.8	360.3	318.0	307.9	521.0	576.9	529.5	460.1	414.5
87.5°	76.1	88.0	159.0	157.3	111.6	59.2	115.0	55.8	30.4	18.6	23.7
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)