

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: P455809

Luminaire Tested: **GALN-SA7A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455809
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-SA7A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28767 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

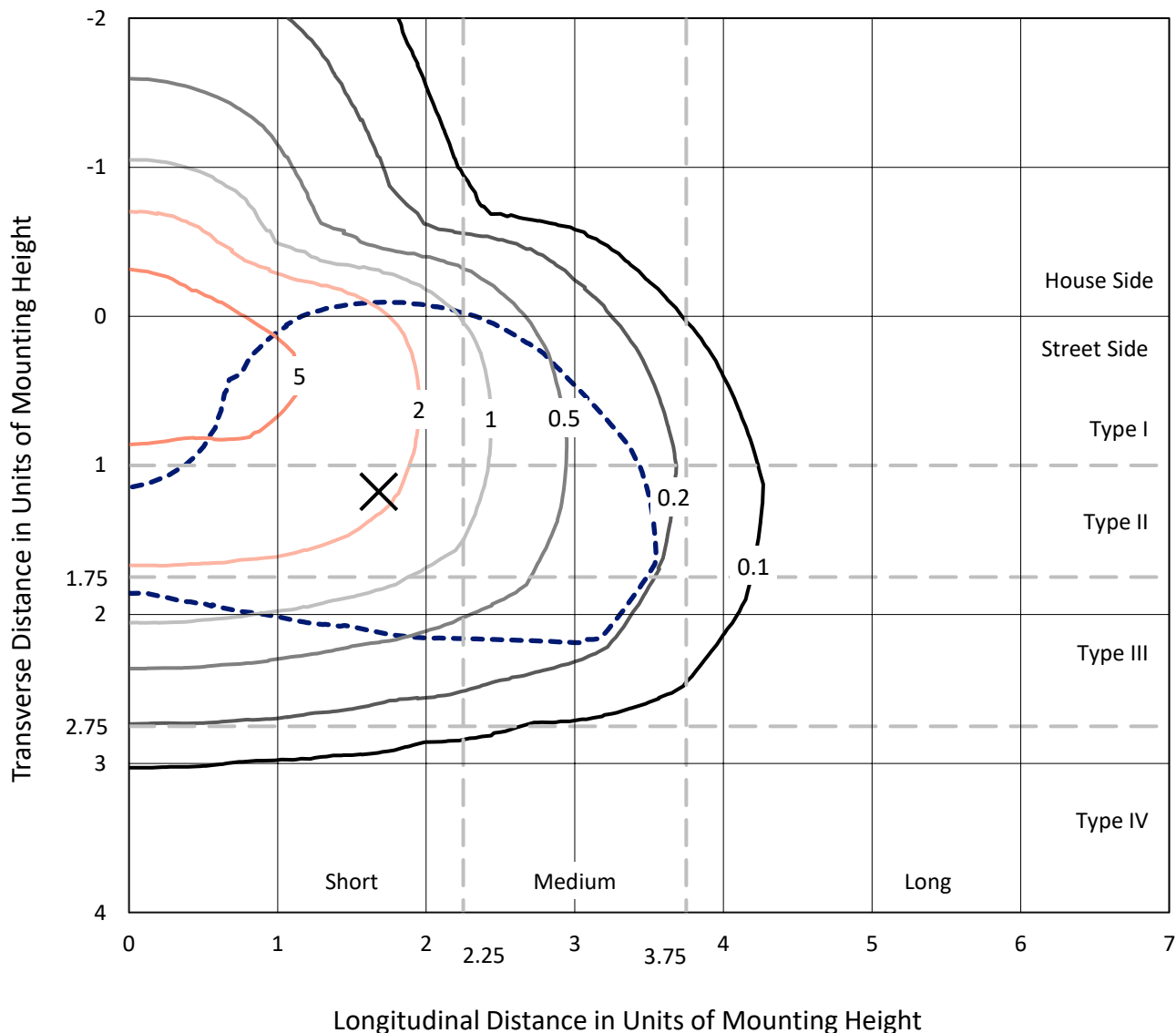
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

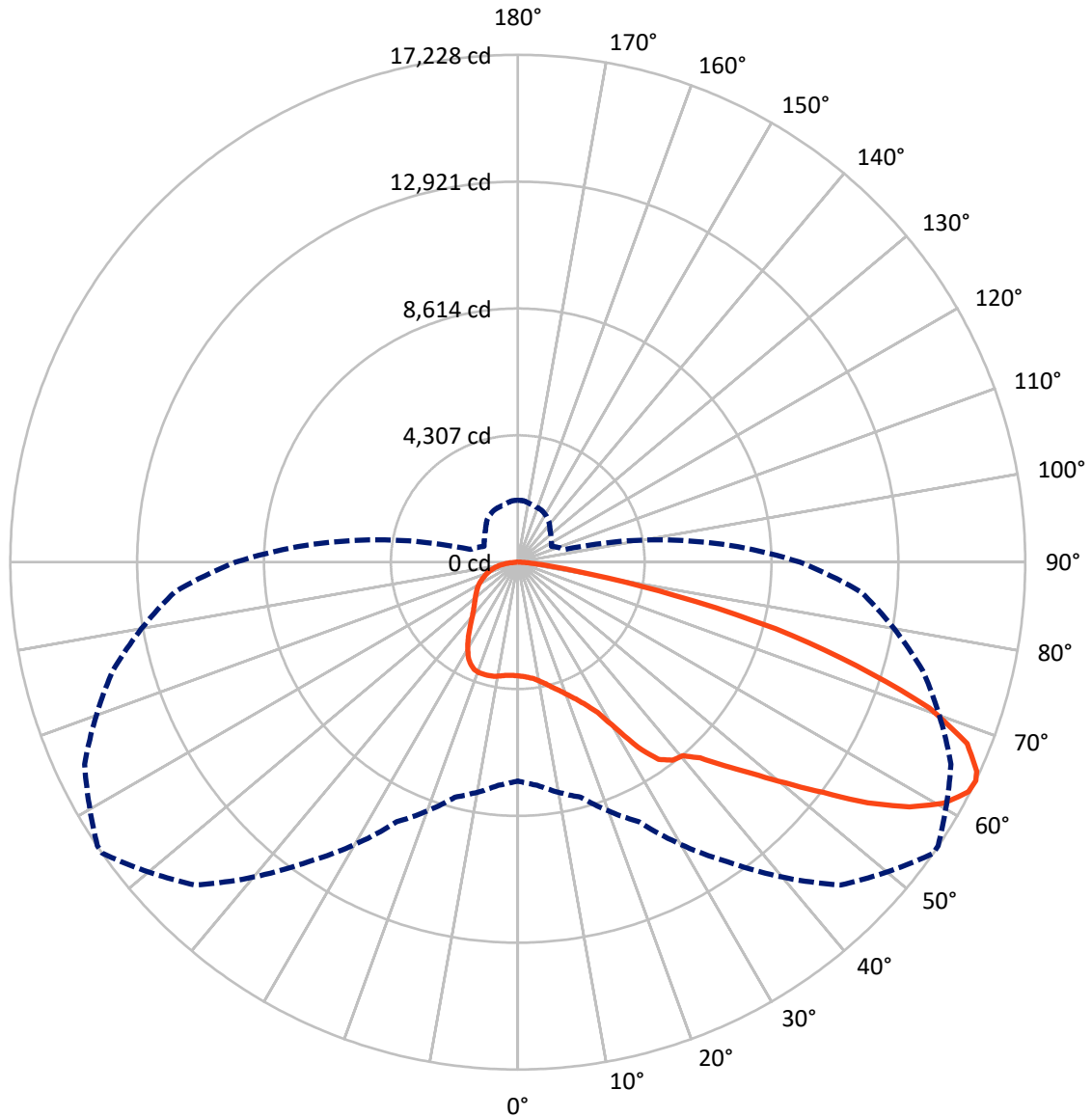
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	6988.1	0.0	6988.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21778.9	0.0	21778.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	28767.0	0.0	28767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.4	1.3
10°-20°	1184.6	4.1
20°-30°	2109.0	7.3
30°-40°	3244.9	11.3
40°-50°	4599.9	16.0
50°-60°	6658.2	23.1
60°-70°	6890.5	24.0
70°-80°	3226.8	11.2
80°-90°	477.7	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°	28767.0	100.0
0°-180°	28767.0	100.0

Coefficient of Utilization



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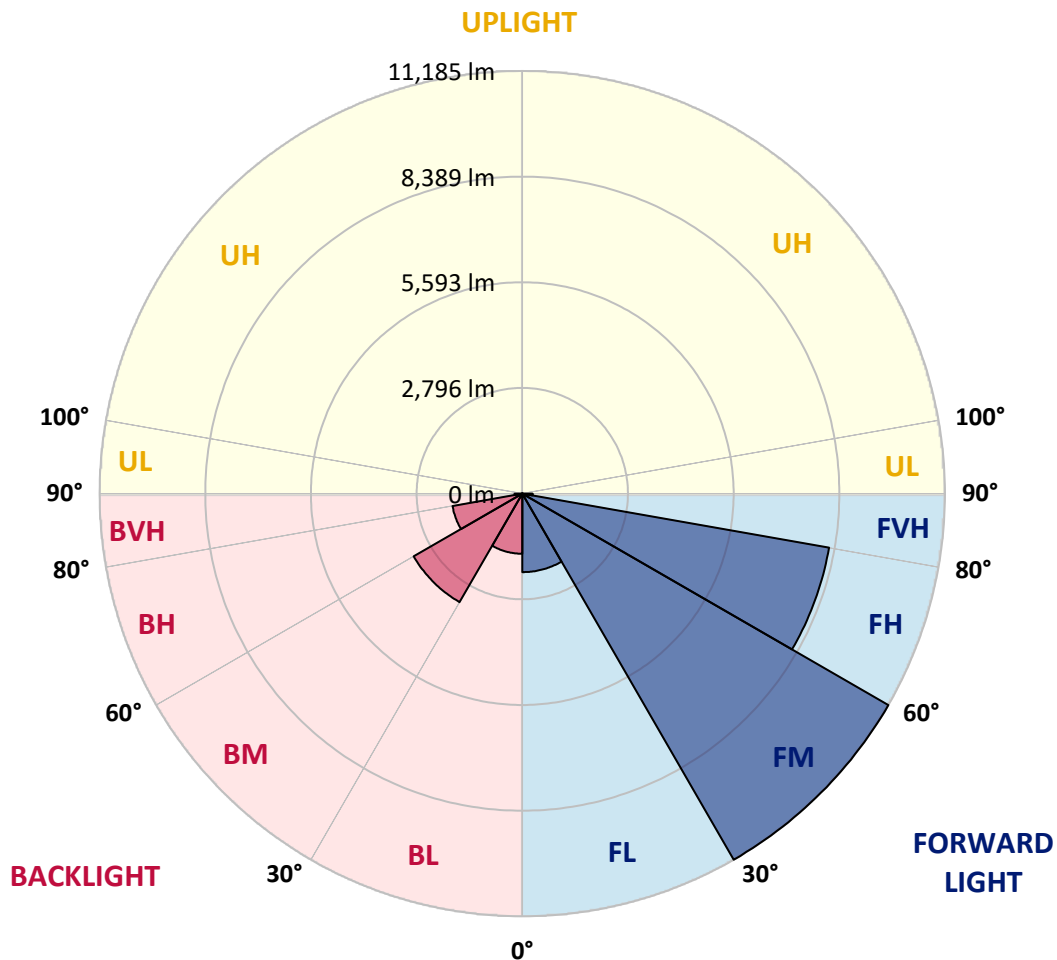
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2077.4	7.2			
FM	(30°-60°)	11185.4	38.9			
FH	(60°-80°)	8242.6	28.7			G4/12000
FVH	(80°-90°)	273.5	1.0			G3/500
BL	(0°-30°)	1591.6	5.5	B3/2500		
BM	(30°-60°)	3317.5	11.5	B3/5000		
BH	(60°-80°)	1874.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	204.2	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°	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7
2.5°	3903.0	3901.4	3906.2	3901.4	3904.6	3893.3	3888.5	3891.7	3886.9	3878.9	3864.5
5°	3951.1	3949.5	3951.1	3944.6	3947.9	3941.4	3930.2	3933.4	3925.4	3907.8	3886.9
7.5°	4032.8	4026.4	4026.4	4024.8	4018.4	4008.8	4000.8	3997.6	3989.5	3967.1	3935.0
10°	4138.7	4138.7	4140.3	4127.5	4135.5	4117.8	4109.8	4108.2	4080.9	4052.1	4007.2
12.5°	4278.2	4286.2	4281.4	4275.0	4271.8	4265.4	4238.1	4244.5	4214.0	4164.3	4109.8
15°	4451.4	4464.2	4456.2	4453.0	4444.9	4420.9	4409.7	4404.9	4364.8	4292.6	4220.5
17.5°	4680.7	4664.6	4658.2	4650.2	4616.5	4598.9	4579.6	4576.4	4541.2	4456.2	4343.9
20°	4881.1	4903.6	4890.7	4882.7	4849.0	4815.4	4800.9	4796.1	4765.6	4672.6	4493.1
22.5°	5120.0	5124.8	5129.6	5110.4	5094.4	5068.7	5043.1	5035.0	5023.8	4927.6	4707.9
25°	5375.0	5394.2	5378.2	5359.0	5339.7	5338.1	5362.2	5359.0	5354.1	5261.1	4993.3
27.5°	5790.3	5807.9	5812.7	5791.9	5718.1	5724.6	5779.1	5796.7	5870.5	5716.5	5360.6
30°	6024.4	6042.0	6082.1	6160.7	6277.8	6380.4	6511.9	6552.0	6622.5	6332.3	5796.7
32.5°	6168.7	6175.1	6247.3	6393.2	6744.4	7127.6	7485.2	7499.6	7544.5	7137.2	6196.0
35°	6396.4	6401.2	6459.0	6619.3	7031.4	7669.6	8222.8	8240.5	8203.6	7387.4	6382.0
37.5°	6677.0	6689.9	6726.7	6859.8	7352.1	8123.4	8529.1	8516.3	8189.2	7586.2	6710.7
40°	7085.9	7085.9	7042.6	7222.2	7690.5	8383.2	8636.5	8614.1	8527.5	8161.9	7211.0
42.5°	7446.7	7440.3	7542.9	7664.8	8113.8	8784.1	9087.1	9124.0	9266.7	8885.1	7780.3
45°	7916.6	7945.4	8003.1	8224.4	8833.8	9468.8	9860.0	9895.3	10097.3	9736.5	8445.7
47.5°	8391.2	8400.8	8582.0	8877.1	9725.3	10397.2	10717.9	10775.6	10960.0	10732.3	9162.5
50°	8727.9	8819.3	9109.6	9574.6	10644.1	11529.3	11779.4	11848.4	12173.9	11816.3	9997.9
52.5°	9083.9	9173.7	9528.1	10236.8	11699.3	12687.0	12994.9	13041.4	13379.7	12913.1	10852.6
55°	9388.6	9472.0	9874.5	10823.7	12539.5	13868.8	14426.8	14372.3	14534.3	13758.2	11511.6
57.5°	9438.3	9505.6	10012.4	11199.0	13171.3	14882.2	15682.4	15714.5	15526.8	14390.0	12055.2
60°	9053.5	9191.4	9773.4	11158.9	13455.1	15587.8	16618.8	16641.3	16108.9	14713.9	12271.7
62.5°	8372.0	8357.5	9061.5	10514.3	13057.4	15748.1	17170.4	17146.4	16336.6	14558.3	12061.6
64°	7430.7	7603.9	8261.3	9722.1	12416.0	15501.2	17228.2	17215.3	16227.6	14234.4	11704.1
65°	6856.6	6847.0	7496.4	9074.3	11777.8	15129.2	17125.6	17107.9	15999.9	13944.2	11426.7
67.5°	4950.1	4972.5	5613.9	7002.6	9574.6	13674.8	16456.9	16391.1	15101.9	12982.1	10371.5
70°	2998.6	3011.4	3514.9	4645.4	6872.7	11054.6	14834.1	14837.3	13727.7	11545.3	8827.4
72.5°	1579.5	1613.1	1815.2	2637.8	4174.0	7756.2	12034.4	12319.8	11785.8	9853.6	6973.7
75°	878.7	883.5	1026.3	1300.5	2129.5	4340.7	9045.4	9127.2	9330.9	7931.0	5156.9
77.5°	670.3	679.9	724.8	840.2	1159.3	2012.4	5474.4	5884.9	6576.0	5591.5	2942.5
80°	543.6	553.2	591.7	660.6	771.3	954.1	2543.2	2764.5	3519.7	2482.2	1148.1
82.5°	423.3	416.9	466.6	511.5	561.2	564.4	1043.9	1154.5	1433.5	1067.9	497.1
85°	314.3	314.3	354.4	344.8	362.4	330.3	460.2	508.3	574.1	453.8	230.9
87.5°	125.1	137.9	232.5	208.5	162.0	129.9	170.0	179.6	198.8	178.0	96.2
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°	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7	3859.7
2.5°	3866.1	3870.9	3859.7	3851.6	3848.4	3843.6	3838.8	3840.4	3846.8	3853.2	3851.6
5°	3885.3	3886.9	3867.7	3858.1	3851.6	3845.2	3845.2	3850.0	3862.9	3872.5	3872.5
7.5°	3933.4	3933.4	3906.2	3888.5	3878.9	3867.7	3864.5	3866.1	3875.7	3888.5	3890.1
10°	4008.8	4002.4	3967.1	3939.8	3922.2	3894.9	3870.9	3858.1	3862.9	3870.9	3870.9
12.5°	4100.2	4082.6	4037.7	4000.8	3957.5	3906.2	3856.5	3830.8	3829.2	3837.2	3834.0
15°	4198.0	4178.8	4116.2	4048.9	3973.5	3898.1	3838.8	3801.9	3773.1	3765.1	3782.7
17.5°	4311.9	4271.8	4185.2	4092.2	3979.9	3882.1	3789.1	3713.7	3662.4	3648.0	3652.8
20°	4449.8	4396.8	4279.8	4133.9	3975.1	3824.4	3680.1	3579.0	3495.7	3470.0	3473.2
22.5°	4640.6	4549.2	4377.6	4154.7	3935.0	3715.3	3514.9	3383.4	3282.4	3242.3	3266.4
25°	4857.1	4757.6	4470.6	4149.9	3830.8	3540.6	3319.3	3147.7	3056.3	2997.0	3009.8
27.5°	5155.3	4978.9	4570.0	4106.6	3681.7	3327.3	3070.7	2908.8	2825.4	2794.9	2809.4
30°	5536.9	5265.9	4677.5	3989.5	3446.0	3057.9	2820.6	2714.8	2665.0	2626.6	2639.4
32.5°	5812.7	5468.0	4701.5	3792.3	3191.0	2812.6	2650.6	2572.0	2517.5	2480.6	2488.7
35°	6010.0	5639.6	4690.3	3550.2	2924.8	2610.5	2515.9	2451.8	2363.6	2283.4	2269.0
37.5°	6274.6	5854.4	4608.5	3285.6	2661.8	2474.2	2406.9	2288.2	2161.5	2054.1	2049.3
40°	6680.2	6106.2	4433.7	2974.5	2437.3	2373.2	2291.4	2137.5	2001.2	1914.6	1908.2
42.5°	7098.8	6338.7	4196.4	2647.4	2252.9	2267.4	2168.0	2015.6	1932.2	1876.1	1869.7
45°	7610.3	6590.5	3939.8	2363.6	2116.6	2168.0	2060.5	1972.3	1922.6	1885.7	1876.1
47.5°	8163.5	6848.6	3651.2	2108.6	2001.2	2076.6	2015.6	1975.5	1948.3	1922.6	1911.4
50°	8760.0	7137.2	3380.2	1903.4	1897.0	1981.9	2010.8	1996.4	1980.3	1972.3	1962.7
52.5°	9414.2	7432.3	3152.5	1759.1	1805.6	1914.6	2012.4	2023.6	2023.6	2018.8	2012.4
55°	9856.8	7637.5	2921.6	1642.0	1712.6	1860.1	2009.2	2052.5	2068.5	2062.1	2055.7
57.5°	10183.9	7749.8	2631.4	1541.0	1634.0	1807.2	1991.6	2055.7	2071.7	2079.8	2076.6
60°	10251.3	7645.6	2251.3	1435.1	1549.0	1730.2	1927.4	2007.6	2028.4	2078.2	2083.0
62.5°	9948.2	7324.9	1872.9	1330.9	1444.8	1613.1	1840.8	1953.1	1994.8	2071.7	2079.8
64°	9576.2	6965.7	1662.8	1265.2	1377.4	1547.4	1797.5	1938.7	1993.2	2095.8	2102.2
65°	9303.6	6704.3	1531.4	1223.5	1334.1	1504.1	1773.5	1943.5	2007.6	2132.7	2142.3
67.5°	8299.8	5804.7	1266.8	1125.7	1231.5	1430.3	1778.3	1983.5	2004.4	2147.1	2145.5
70°	6867.9	4621.3	1061.5	1035.9	1132.1	1371.0	1759.1	1919.4	1921.0	2015.6	1993.2
72.5°	5142.5	3415.5	920.4	942.9	1021.4	1229.9	1661.2	1832.8	1805.6	1818.4	1795.9
75°	3532.5	2259.4	792.1	843.4	906.0	1087.2	1523.3	1664.4	1621.2	1605.1	1589.1
77.5°	1885.7	1249.1	659.0	745.6	787.3	939.7	1329.3	1465.6	1420.7	1358.2	1337.3
80°	763.3	588.5	530.8	617.4	641.4	756.9	1106.4	1191.4	1157.7	1048.7	1013.4
82.5°	383.2	352.8	416.9	485.9	487.5	540.4	822.6	902.8	827.4	694.3	663.9
85°	200.4	206.9	287.0	341.5	301.5	291.8	493.9	546.8	501.9	436.2	392.9
87.5°	72.2	83.4	150.7	149.1	105.8	56.1	109.0	52.9	28.9	17.6	22.4
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)