

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: P648128

Luminaire Tested: **GALN-SA8A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648128
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-SA8A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28673.5 lumens
Efficiency: N/A
Efficacy: 117.5 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

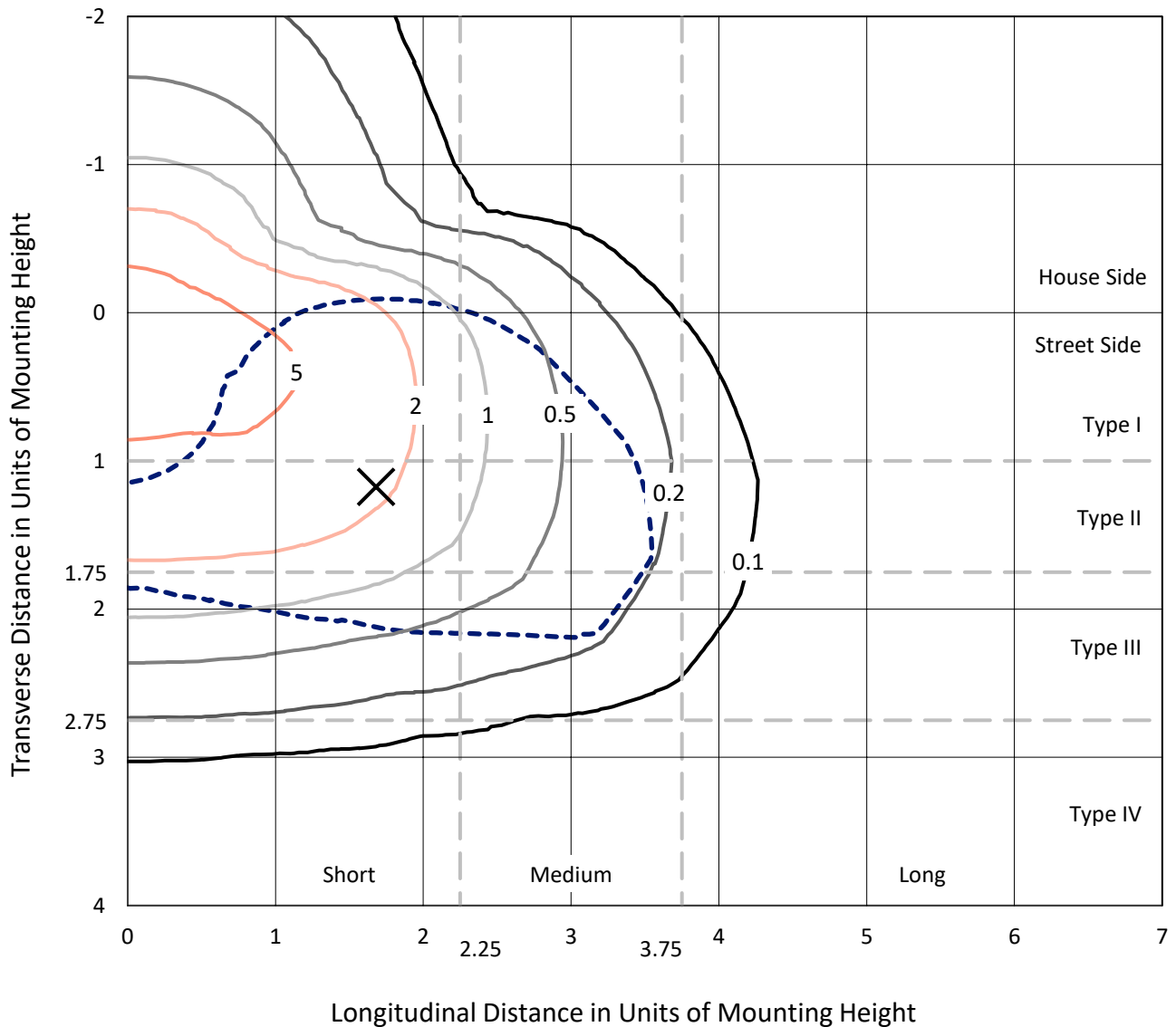
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

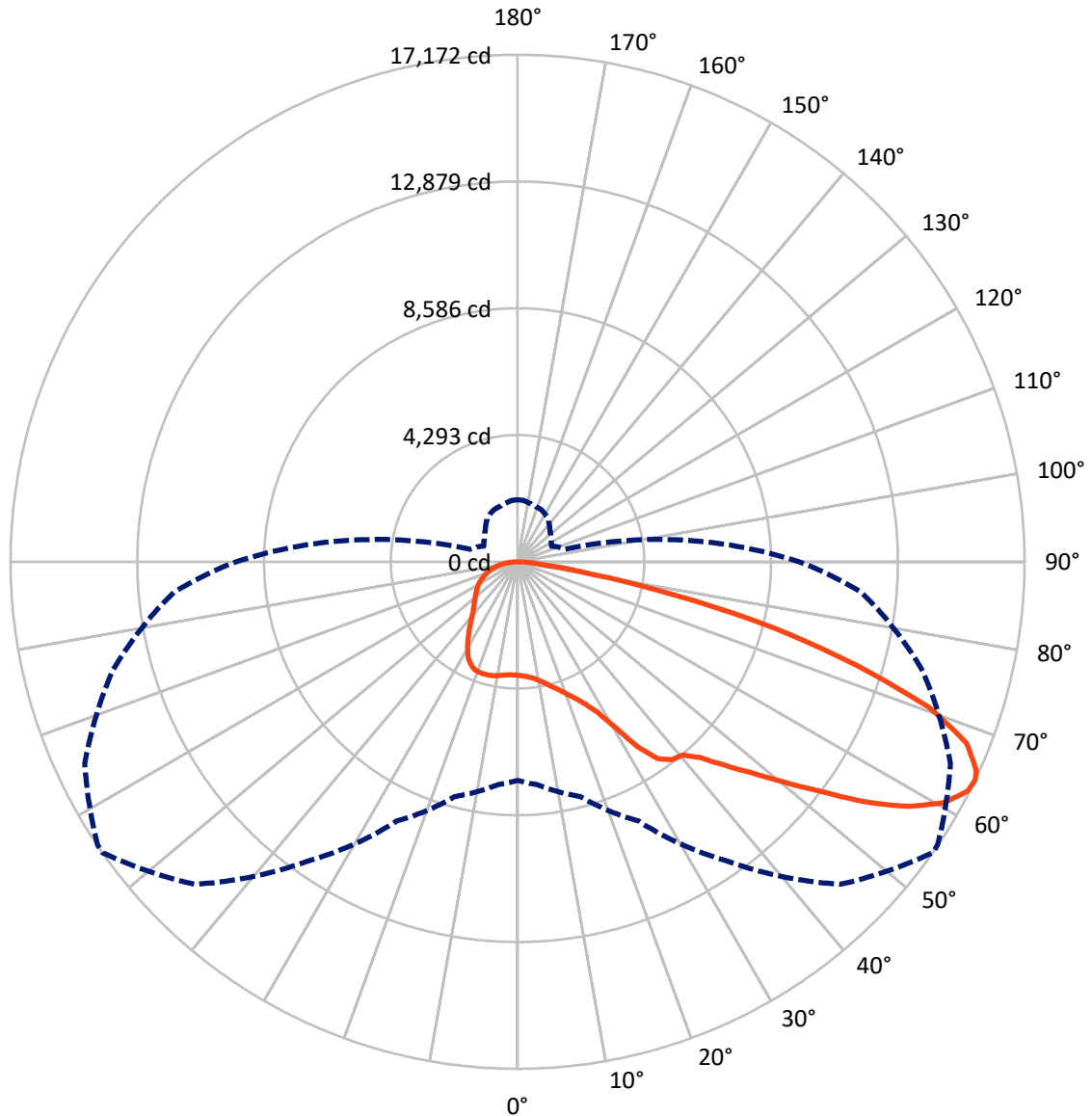
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	6965.4	0.0	6965.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	21708.1	0.0	21708.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	28673.5	0.0	28673.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.3
10°-20°	1180.8	4.1
20°-30°	2102.1	7.3
30°-40°	3234.3	11.3
40°-50°	4584.9	16.0
50°-60°	6636.5	23.1
60°-70°	6868.1	24.0
70°-80°	3216.4	11.2
80°-90°	476.1	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°	28673.5	100.0
0°-180°	28673.5	100.0

Coefficient of Utilization

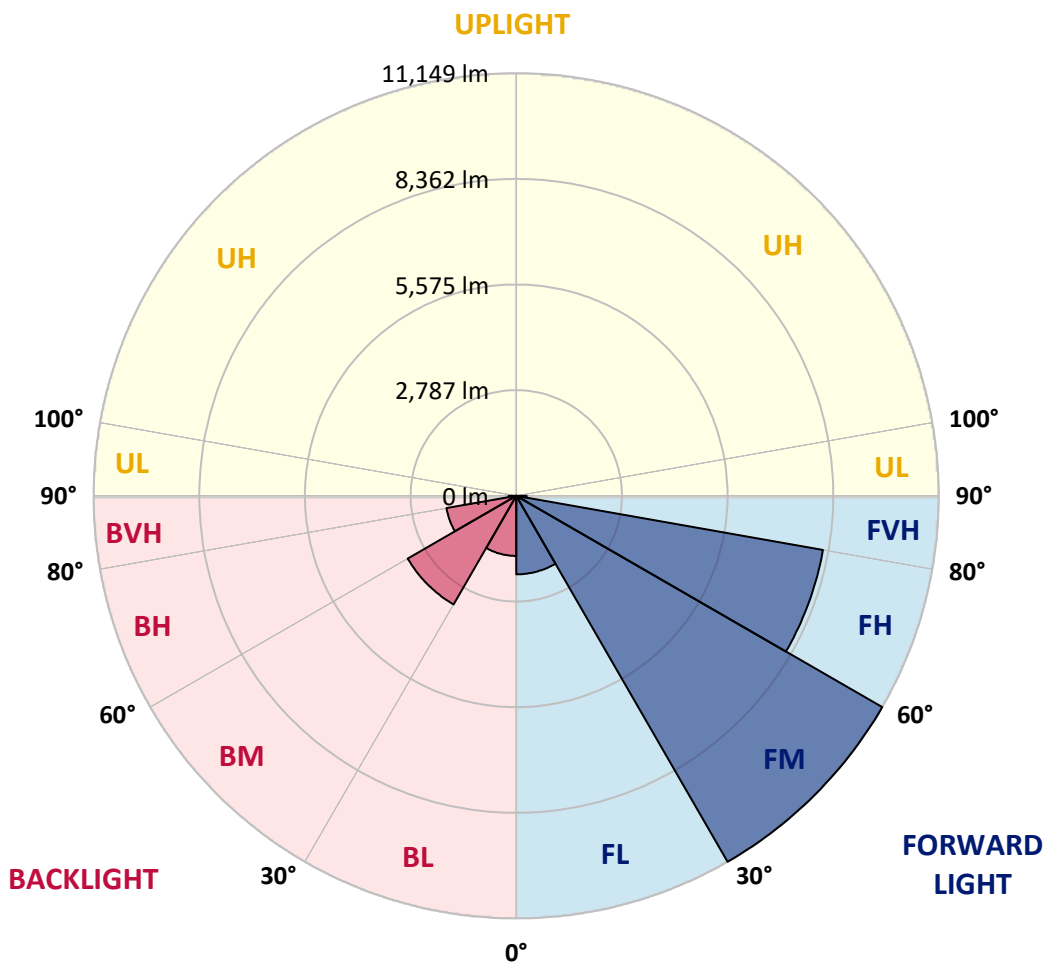


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.7	7.2			
FM (30°-60°)	11149.0	38.9			
FH (60°-80°)	8215.8	28.7			G4/12000
FVH (80°-90°)	272.6	1.0			G3/500
BL (0°-30°)	1586.4	5.5	B3/2500		
BM (30°-60°)	3306.7	11.5	B3/5000		
BH (60°-80°)	1868.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	203.5	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°	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1
2.5°	3890.3	3888.7	3893.5	3888.7	3891.9	3880.7	3875.8	3879.1	3874.3	3866.3	3851.9
5°	3938.3	3936.6	3938.3	3931.8	3935.0	3928.6	3917.4	3920.6	3912.7	3895.0	3874.3
7.5°	4019.8	4013.3	4013.3	4011.7	4005.4	3995.7	3987.7	3984.5	3976.5	3954.2	3922.2
10°	4125.2	4125.2	4126.8	4114.0	4122.0	4104.4	4096.4	4094.9	4067.7	4038.9	3994.2
12.5°	4264.3	4272.3	4267.4	4261.1	4257.9	4251.5	4224.3	4230.7	4200.3	4150.8	4096.4
15°	4436.9	4449.7	4441.6	4438.5	4430.5	4406.5	4395.3	4390.5	4350.6	4278.6	4206.7
17.5°	4665.4	4649.5	4643.0	4635.0	4601.5	4583.9	4564.7	4561.5	4526.4	4441.6	4329.8
20°	4865.2	4887.6	4874.8	4866.8	4833.3	4799.7	4785.3	4780.5	4750.1	4657.4	4478.4
22.5°	5103.4	5108.1	5113.0	5093.8	5077.8	5052.2	5026.6	5018.6	5007.4	4911.6	4692.6
25°	5357.5	5376.7	5360.7	5341.5	5322.4	5320.7	5344.8	5341.5	5336.7	5244.1	4977.1
27.5°	5771.5	5789.0	5793.8	5773.1	5699.5	5706.0	5760.3	5777.8	5851.4	5698.0	5343.1
30°	6004.8	6022.4	6062.4	6140.7	6257.3	6359.7	6490.7	6530.7	6601.0	6311.7	5777.8
32.5°	6148.7	6155.1	6227.0	6372.4	6722.4	7104.5	7460.9	7475.2	7520.0	7114.0	6175.8
35°	6375.7	6380.4	6438.0	6597.8	7008.6	7644.7	8196.1	8213.7	8176.9	7363.4	6361.2
37.5°	6655.3	6668.1	6704.9	6837.5	7328.3	8097.0	8501.3	8488.6	8162.5	7561.6	6688.9
40°	7062.9	7062.9	7019.8	7198.7	7665.5	8355.9	8608.5	8586.1	8499.8	8135.4	7187.5
42.5°	7422.5	7416.1	7518.4	7639.9	8087.4	8755.5	9057.6	9094.3	9236.6	8856.2	7755.0
45°	7890.8	7919.6	7977.1	8197.7	8805.1	9438.0	9828.0	9863.1	10064.5	9704.9	8418.3
47.5°	8363.9	8373.5	8554.1	8848.2	9693.7	10363.4	10683.0	10740.6	10924.4	10697.4	9132.7
50°	8699.5	8790.7	9080.0	9543.4	10609.5	11491.8	11741.2	11809.8	12134.3	11777.9	9965.4
52.5°	9054.4	9143.9	9497.1	10203.6	11661.2	12645.8	12952.6	12999.0	13336.2	12871.1	10817.3
55°	9358.0	9441.2	9842.3	10788.6	12498.7	13823.7	14380.0	14325.6	14487.0	13713.5	11474.2
57.5°	9407.6	9474.8	9979.8	11162.5	13128.5	14833.9	15631.4	15663.4	15476.4	14343.2	12016.0
60°	9024.0	9161.5	9741.6	11122.6	13411.4	15537.1	16564.8	16587.2	16056.5	14666.0	12231.8
62.5°	8344.7	8330.3	9032.0	10480.1	13014.9	15697.0	17114.6	17090.6	16283.5	14510.9	12022.4
64°	7406.6	7579.1	8234.4	9690.5	12375.6	15450.8	17172.1	17159.4	16174.8	14188.1	11666.0
65°	6834.3	6824.8	7472.1	9044.8	11739.5	15080.0	17069.9	17052.3	15947.8	13898.8	11389.5
67.5°	4934.0	4956.3	5595.6	6979.8	9543.4	13630.3	16403.4	16337.8	15052.8	12939.9	10337.8
70°	2988.8	3001.6	3503.5	4630.3	6850.3	11018.7	14785.9	14789.1	13683.1	11507.8	8798.6
72.5°	1574.3	1607.9	1809.3	2629.2	4160.4	7731.0	11995.2	12279.8	11747.5	9821.6	6951.0
75°	875.9	880.6	1022.9	1296.3	2122.6	4326.6	9016.0	9097.5	9300.6	7905.2	5140.2
77.5°	668.1	677.7	722.4	837.5	1155.6	2005.9	5456.6	5865.8	6554.6	5573.3	2932.9
80°	541.8	551.4	589.8	658.5	768.7	951.0	2534.9	2755.5	3508.3	2474.2	1144.4
82.5°	422.0	415.5	465.1	509.9	559.4	562.6	1040.5	1150.8	1428.9	1064.5	495.5
85°	313.3	313.3	353.2	343.7	361.2	329.3	458.7	506.7	572.2	452.3	230.1
87.5°	124.7	137.4	231.8	207.8	161.5	129.4	169.4	179.0	198.2	177.4	95.9
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°	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1	3847.1
2.5°	3853.5	3858.3	3847.1	3839.1	3835.9	3831.1	3826.4	3827.9	3834.4	3840.7	3839.1
5°	3872.7	3874.3	3855.1	3845.5	3839.1	3832.7	3832.7	3837.6	3850.3	3859.9	3859.9
7.5°	3920.6	3920.6	3893.5	3875.8	3866.3	3855.1	3851.9	3853.5	3863.1	3875.8	3877.5
10°	3995.7	3989.4	3954.2	3927.1	3909.4	3882.3	3858.3	3845.5	3850.3	3858.3	3858.3
12.5°	4086.9	4069.3	4024.5	3987.7	3944.6	3893.5	3843.9	3818.4	3816.7	3824.7	3821.5
15°	4184.4	4165.2	4102.8	4035.7	3960.6	3885.5	3826.4	3789.6	3760.8	3752.8	3770.4
17.5°	4297.8	4257.9	4171.6	4078.9	3967.0	3869.5	3776.8	3701.6	3650.5	3636.2	3641.0
20°	4435.3	4382.5	4265.9	4120.5	3962.2	3812.0	3668.1	3567.4	3484.3	3458.7	3462.0
22.5°	4625.5	4534.4	4363.3	4141.2	3922.2	3703.3	3503.5	3372.4	3271.7	3231.8	3255.7
25°	4841.3	4742.2	4456.1	4136.4	3818.4	3529.1	3308.5	3137.5	3046.3	2987.2	3000.0
27.5°	5138.5	4962.7	4555.2	4093.3	3669.7	3316.5	3060.7	2899.3	2816.2	2785.8	2800.2
30°	5519.0	5248.8	4662.2	3976.5	3434.8	3048.0	2811.4	2705.9	2656.4	2618.0	2630.8
32.5°	5793.8	5450.2	4686.3	3780.0	3180.6	2803.5	2642.0	2563.7	2509.4	2472.6	2480.5
35°	5990.4	5621.2	4675.1	3538.6	2915.3	2602.1	2507.7	2443.8	2355.9	2275.9	2261.6
37.5°	6254.1	5835.4	4593.5	3274.9	2653.2	2466.2	2399.0	2280.8	2154.5	2047.4	2042.6
40°	6658.6	6086.3	4419.3	2964.8	2429.4	2365.5	2284.0	2130.5	1994.7	1908.4	1902.0
42.5°	7075.7	6318.1	4182.8	2638.8	2245.6	2260.0	2160.9	2009.1	1925.9	1870.0	1863.6
45°	7585.5	6569.1	3927.1	2355.9	2109.8	2160.9	2053.8	1965.9	1916.4	1879.6	1870.0
47.5°	8136.9	6826.4	3639.3	2101.7	1994.7	2069.8	2009.1	1969.1	1941.9	1916.4	1905.2
50°	8731.5	7114.0	3369.2	1897.2	1890.8	1975.5	2004.2	1989.9	1973.9	1965.9	1956.3
52.5°	9383.6	7408.1	3142.3	1753.4	1799.7	1908.4	2005.9	2017.1	2017.1	2012.2	2005.9
55°	9824.8	7612.7	2912.1	1636.6	1707.0	1854.1	2002.7	2045.8	2061.8	2055.5	2049.0
57.5°	10150.8	7724.6	2622.8	1535.9	1628.6	1801.3	1985.1	2049.0	2065.0	2073.0	2069.8
60°	10217.9	7620.7	2244.0	1430.5	1544.0	1724.6	1921.2	2001.1	2021.9	2071.4	2076.2
62.5°	9915.8	7301.0	1866.8	1326.6	1440.1	1607.9	1834.9	1946.7	1988.3	2065.0	2073.0
64°	9545.1	6943.0	1657.5	1261.0	1372.9	1542.4	1791.7	1932.4	1986.7	2089.0	2095.4
65°	9273.4	6682.5	1526.4	1219.5	1329.8	1499.2	1767.7	1937.1	2001.1	2125.8	2135.3
67.5°	8272.8	5785.8	1262.7	1122.0	1227.5	1425.7	1772.6	1977.1	1997.9	2140.1	2138.5
70°	6845.5	4606.3	1058.1	1032.5	1128.4	1366.6	1753.4	1913.2	1914.7	2009.1	1986.7
72.5°	5125.8	3404.4	917.4	939.8	1018.1	1225.9	1655.8	1826.9	1799.7	1812.5	1790.1
75°	3521.1	2252.0	789.6	840.7	903.0	1083.7	1518.4	1659.0	1615.9	1599.9	1583.9
77.5°	1879.6	1245.0	656.9	743.2	784.8	936.6	1325.0	1460.8	1416.1	1353.7	1333.0
80°	760.8	586.5	529.1	615.4	639.3	754.4	1102.9	1187.6	1154.0	1045.3	1010.1
82.5°	382.0	351.6	415.5	484.3	485.9	538.6	820.0	899.8	824.7	692.1	661.7
85°	199.8	206.2	286.1	340.4	300.5	290.9	492.3	545.0	500.3	434.7	391.6
87.5°	72.0	83.1	150.3	148.6	105.5	55.9	108.7	52.8	28.7	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)