

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: P455834

Luminaire Tested: **GALN-SA7A-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32034 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

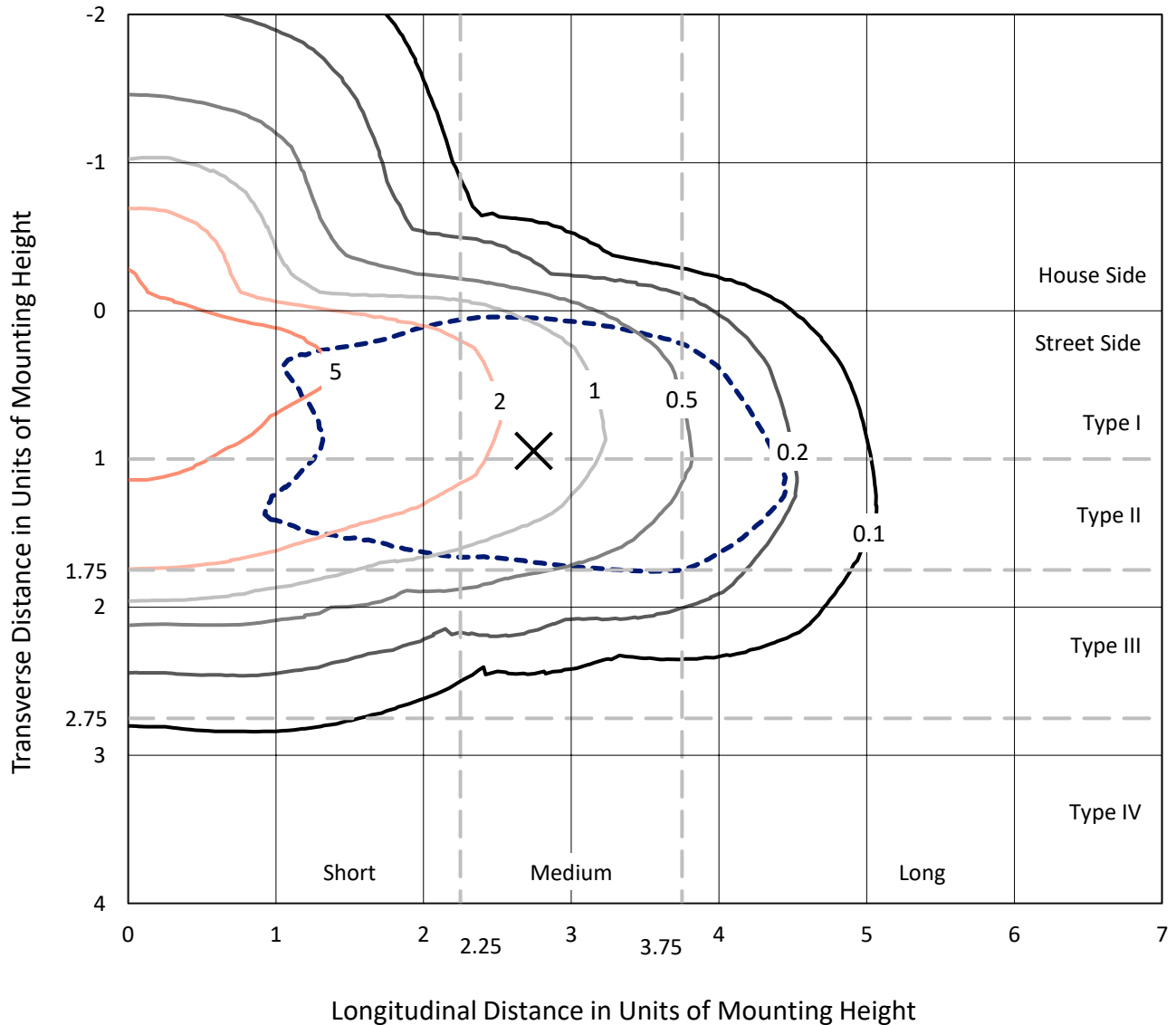
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

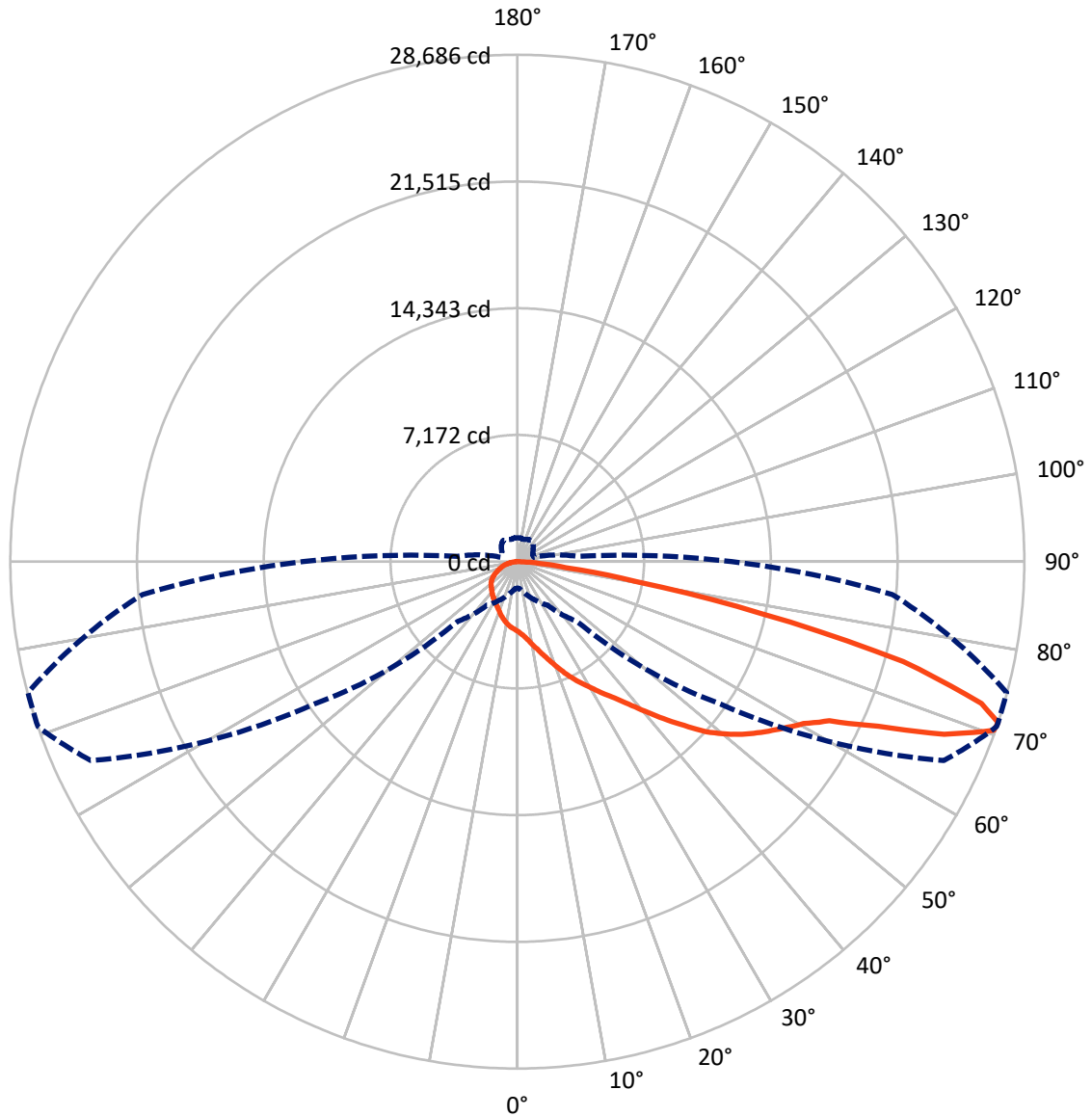
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5761.2	0.0	5761.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	26272.8	0.0	26272.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	32034.0	0.0	32034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.8	1.2
10°-20°	1282.5	4.0
20°-30°	2241.3	7.0
30°-40°	3333.7	10.4
40°-50°	4911.7	15.3
50°-60°	6876.5	21.5
60°-70°	7691.1	24.0
70°-80°	4698.0	14.7
80°-90°	604.4	1.9
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°	32034.0	100.0
0°-180°	32034.0	100.0

Coefficient of Utilization



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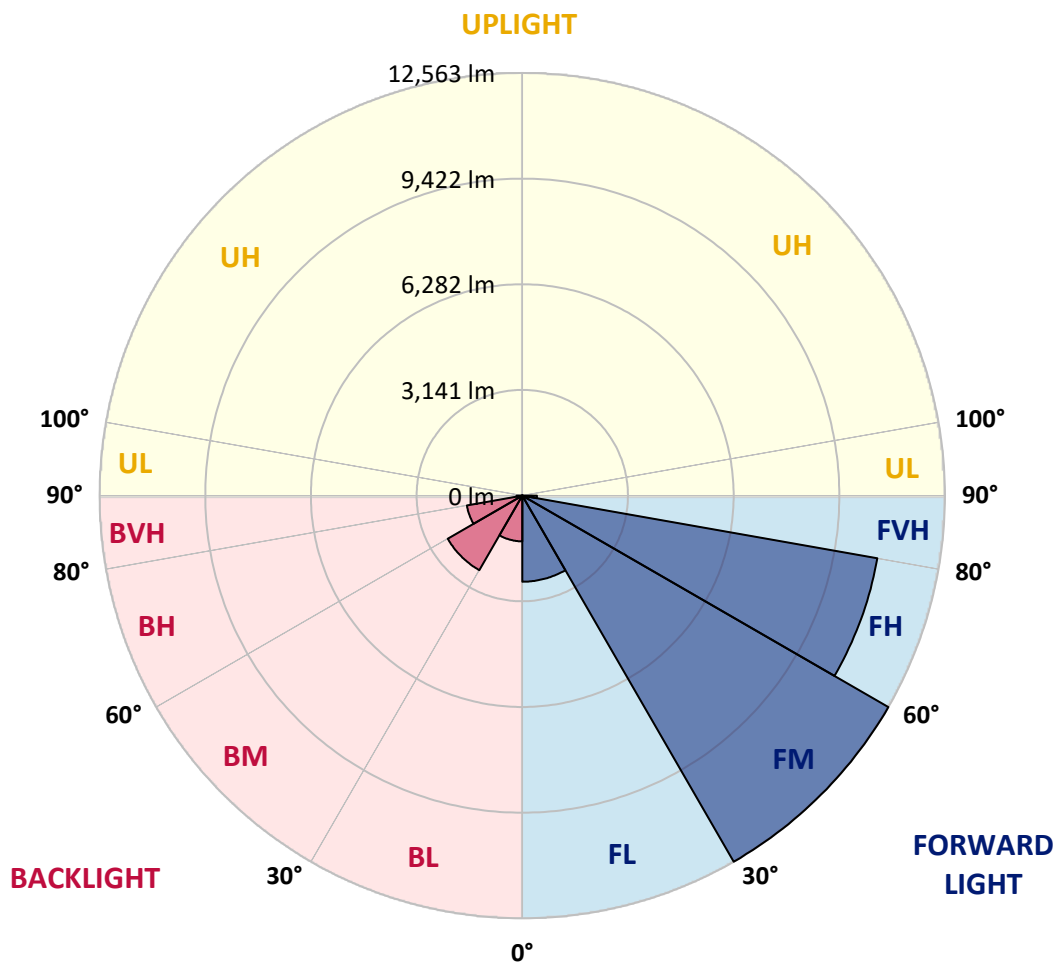
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2559.5	8.0			
FM	(30°-60°)	12563.1	39.2			
FH	(60°-80°)	10715.3	33.4			G4/12000
FVH	(80°-90°)	434.9	1.4			G3/500
BL	(0°-30°)	1359.1	4.2	B3/2500		
BM	(30°-60°)	2558.8	8.0	B3/5000		
BH	(60°-80°)	1673.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	169.5	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5
2.5°	4364.7	4343.5	4345.3	4315.4	4276.6	4234.4	4174.5	4121.7	4079.4	4054.8	3982.6
5°	4836.5	4815.4	4789.0	4723.8	4695.7	4591.8	4459.7	4340.0	4248.5	4197.4	4053.0
7.5°	5218.6	5213.3	5206.3	5169.3	5097.1	4952.7	4840.0	4632.3	4496.7	4399.9	4153.4
10°	5454.5	5463.3	5468.6	5475.6	5445.7	5370.0	5215.1	4952.7	4780.2	4656.9	4283.7
12.5°	5574.2	5583.0	5613.0	5678.1	5718.6	5709.8	5583.0	5326.0	5088.3	4926.3	4422.8
15°	5648.2	5662.3	5715.1	5801.4	5936.9	6023.2	5961.6	5723.9	5463.3	5271.4	4588.3
17.5°	5729.2	5745.0	5803.1	5926.4	6104.2	6290.8	6357.7	6153.5	5870.0	5641.1	4773.1
20°	5774.9	5796.1	5878.8	6040.8	6248.6	6519.7	6741.5	6634.1	6324.3	6070.7	4986.2
22.5°	5848.9	5866.5	5936.9	6109.5	6357.7	6697.5	7125.4	7102.5	6829.6	6502.1	5220.3
25°	6049.6	6077.8	6113.0	6216.9	6456.3	6878.9	7444.0	7602.5	7319.0	6952.8	5435.1
27.5°	6428.1	6451.0	6449.3	6463.4	6598.9	7035.6	7720.5	8097.3	7805.0	7408.8	5642.9
30°	6859.5	6868.3	6875.4	6843.7	6873.6	7195.8	7974.0	8586.7	8294.4	7877.2	5824.2
32.5°	7384.2	7401.8	7341.9	7260.9	7236.3	7433.5	8183.5	9076.2	8873.7	8352.5	6003.8
35°	8003.9	8049.7	7928.2	7785.6	7685.3	7775.1	8465.2	9576.2	9467.0	8960.0	6241.5
37.5°	8711.7	8768.1	8655.4	8375.4	8232.8	8257.5	8833.2	10194.2	10217.1	9651.9	6595.4
40°	9291.0	9364.9	9368.4	8972.3	8755.7	8783.9	9299.8	10859.7	11122.1	10507.6	7012.7
42.5°	9673.0	9745.2	9820.9	9588.5	9361.4	9521.6	9843.8	11581.6	12139.7	11546.4	7595.5
45°	10092.1	10157.2	10199.5	10093.8	9967.1	10382.6	10500.5	12349.2	13224.3	12706.6	8232.8
47.5°	10578.0	10650.2	10690.7	10590.3	10542.8	11137.9	11208.3	13065.8	14382.8	13833.5	8937.1
50°	11225.9	11280.5	11259.4	11196.0	11185.4	11717.2	11887.9	13736.6	15338.8	15046.6	9667.8
52.5°	12032.3	12097.5	12120.3	12030.6	11990.1	12130.9	12435.5	14347.6	16208.6	16088.9	10447.7
55°	12520.0	12623.9	12972.5	13113.4	13210.2	12666.1	13025.3	15021.9	16988.6	17187.5	11285.8
57.5°	11895.0	12028.8	12808.8	13513.0	14423.3	14004.2	13861.6	15726.2	17768.5	18252.7	12289.4
60°	10370.3	10400.2	11405.5	12703.1	14534.2	15724.4	15606.4	16845.9	18613.6	19326.7	13611.6
62.5°	7194.0	7257.4	8445.9	10516.4	13164.4	16344.2	18574.9	18779.1	19825.0	20934.2	15550.1
65°	3709.7	3626.9	4709.8	6609.5	9924.8	14872.2	20980.0	22333.9	22451.9	23448.4	18279.1
67.5°	2283.6	2320.5	2827.6	3859.4	5868.3	10808.7	20728.2	26677.4	26055.9	26534.8	20812.7
70°	1714.9	1760.7	2109.3	2641.0	3577.7	6179.9	16669.9	27730.3	28598.3	28475.1	21583.9
71°	1491.3	1538.8	1901.5	2403.3	3005.4	4769.6	14044.7	26628.1	28686.3	28665.2	21293.4
72.5°	1271.2	1301.1	1584.6	2035.3	2533.6	3343.5	10551.6	23881.5	27462.7	28165.2	20256.3
75°	998.3	1021.2	1147.9	1552.9	1994.8	2052.9	5662.3	17904.1	22555.7	23893.8	16863.5
77.5°	813.4	829.3	894.4	1153.2	1538.8	1454.3	2970.2	11653.8	14131.0	15477.9	9933.6
80°	646.2	663.8	702.5	781.7	1153.2	1037.0	1417.3	5905.2	6826.1	6812.0	3965.0
82.5°	501.8	507.1	552.8	574.0	788.8	736.0	767.6	2500.1	2769.5	2861.1	1431.4
85°	316.9	332.8	489.5	440.2	471.9	431.4	378.5	993.0	1223.7	1206.0	572.2
87.5°	96.8	102.1	165.5	186.6	209.5	188.4	139.1	292.3	357.4	387.3	142.6
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°	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5	3931.5
2.5°	3954.4	3935.1	3866.4	3810.1	3757.2	3699.1	3649.8	3635.8	3623.4	3618.1	3616.4
5°	3991.4	3933.3	3797.7	3686.8	3598.8	3517.8	3466.7	3443.8	3421.0	3421.0	3428.0
7.5°	4044.2	3938.6	3729.1	3563.6	3452.6	3376.9	3340.0	3336.4	3341.7	3347.0	3348.8
10°	4102.3	3935.1	3628.7	3422.7	3324.1	3288.9	3290.7	3320.6	3348.8	3369.9	3373.4
12.5°	4158.7	3913.9	3510.7	3290.7	3227.3	3234.3	3283.6	3350.5	3405.1	3435.0	3436.8
15°	4222.0	3880.5	3368.1	3165.7	3144.5	3199.1	3290.7	3392.8	3475.5	3524.8	3530.1
17.5°	4274.9	3824.1	3218.5	3044.2	3070.6	3170.9	3297.7	3429.8	3530.1	3591.7	3602.3
20°	4334.7	3752.0	3063.5	2928.0	3003.7	3139.2	3283.6	3426.2	3530.1	3590.0	3604.1
22.5°	4382.3	3649.8	2915.6	2832.9	2943.8	3100.5	3236.1	3350.5	3435.0	3466.7	3487.9
25°	4401.6	3521.3	2776.6	2755.4	2896.3	3037.1	3128.7	3193.8	3220.2	3216.7	3225.5
27.5°	4391.1	3373.4	2656.8	2693.8	2836.4	2938.5	2984.3	2979.0	2931.5	2887.5	2908.6
30°	4347.1	3197.3	2556.5	2630.4	2758.9	2815.3	2808.2	2739.6	2649.8	2567.0	2572.3
32.5°	4267.8	3007.2	2463.2	2558.2	2649.8	2674.4	2626.9	2537.1	2408.6	2301.2	2285.3
35°	4200.9	2825.9	2380.4	2475.5	2540.6	2528.3	2482.5	2366.3	2250.1	2155.0	2139.2
37.5°	4190.4	2670.9	2301.2	2382.2	2419.1	2401.5	2345.2	2246.6	2204.3	2132.2	2123.3
40°	4246.7	2561.8	2220.2	2283.6	2301.2	2287.1	2225.5	2169.1	2207.9	2190.3	2190.3
42.5°	4399.9	2503.7	2148.0	2185.0	2199.1	2209.6	2165.6	2118.1	2165.6	2084.6	2058.2
45°	4642.8	2505.4	2082.9	2088.1	2130.4	2167.4	2137.4	2067.0	2042.4	1880.4	1848.7
47.5°	5000.3	2565.3	2030.0	1996.6	2072.3	2133.9	2091.7	1989.5	1880.4	1773.0	1753.6
50°	5417.5	2672.7	1982.5	1901.5	1994.8	2091.7	2060.0	1940.2	1827.6	1762.4	1750.1
52.5°	5880.6	2808.2	1924.4	1795.9	1899.7	2072.3	2067.0	1933.2	1778.3	1734.2	1723.7
55°	6452.8	2942.1	1852.2	1672.6	1815.2	2056.4	2047.6	1875.1	1767.7	1736.0	1732.5
57.5°	7118.3	3135.7	1748.3	1547.6	1718.4	1991.3	1971.9	1839.9	1732.5	1709.6	1707.8
60°	8190.6	3436.8	1600.4	1433.2	1619.8	1876.9	1901.5	1780.0	1676.1	1670.9	1669.1
62.5°	9600.8	3859.4	1447.3	1315.2	1505.4	1729.0	1799.4	1699.0	1616.3	1642.7	1646.2
65°	11548.1	4215.0	1288.8	1214.9	1378.6	1586.3	1702.6	1623.3	1549.4	1600.4	1600.4
67.5°	12817.6	4222.0	1144.4	1111.0	1250.1	1466.6	1600.4	1533.5	1463.1	1549.4	1552.9
70°	12553.5	3699.1	1024.7	1001.8	1125.1	1338.1	1487.8	1434.9	1353.9	1431.4	1403.2
71°	12127.4	3408.6	977.2	959.6	1075.8	1276.5	1434.9	1390.9	1309.9	1361.0	1345.1
72.5°	11447.8	2959.7	899.7	903.2	1001.8	1199.0	1361.0	1315.2	1234.2	1262.4	1257.1
75°	9676.6	2584.6	769.4	785.3	861.0	1067.0	1213.1	1177.9	1095.1	1095.1	1089.8
77.5°	6049.6	1806.4	639.1	647.9	730.7	913.8	1042.3	1012.4	933.1	906.7	899.7
80°	2257.2	933.1	500.0	510.6	561.6	720.1	862.7	834.6	753.6	723.6	695.5
82.5°	853.9	468.3	368.0	359.2	413.8	549.3	676.1	642.6	579.3	507.1	485.9
85°	322.2	232.4	225.4	218.3	243.0	325.7	419.0	412.0	345.1	294.0	288.7
87.5°	84.5	75.7	88.0	65.1	68.7	61.6	63.4	26.4	12.3	5.3	3.5
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)