

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: P456704

Luminaire Tested: **GALN-SA8A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456704
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-SA8A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31059 lumens
Efficiency: N/A
Efficacy: 127.3 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

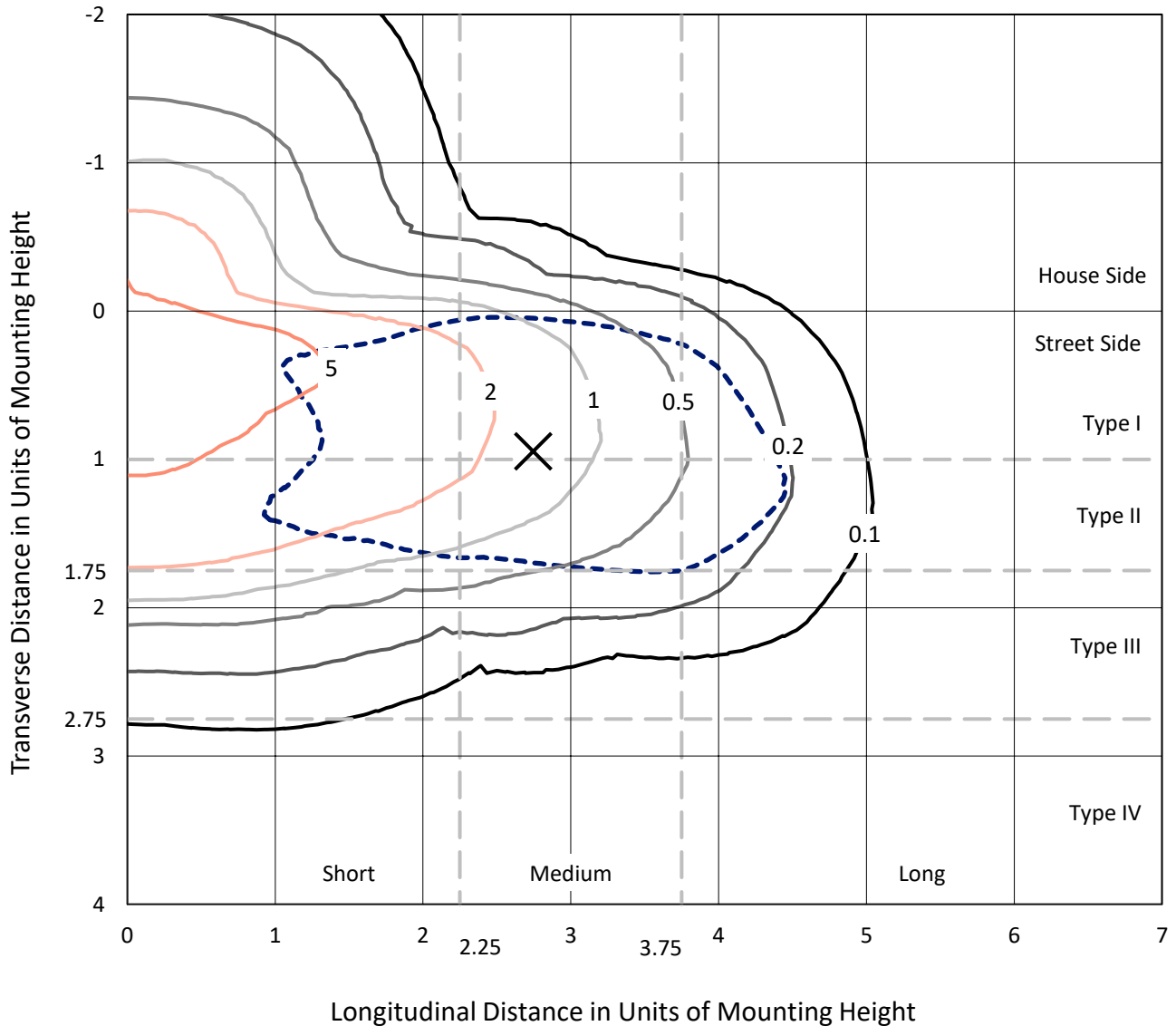
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

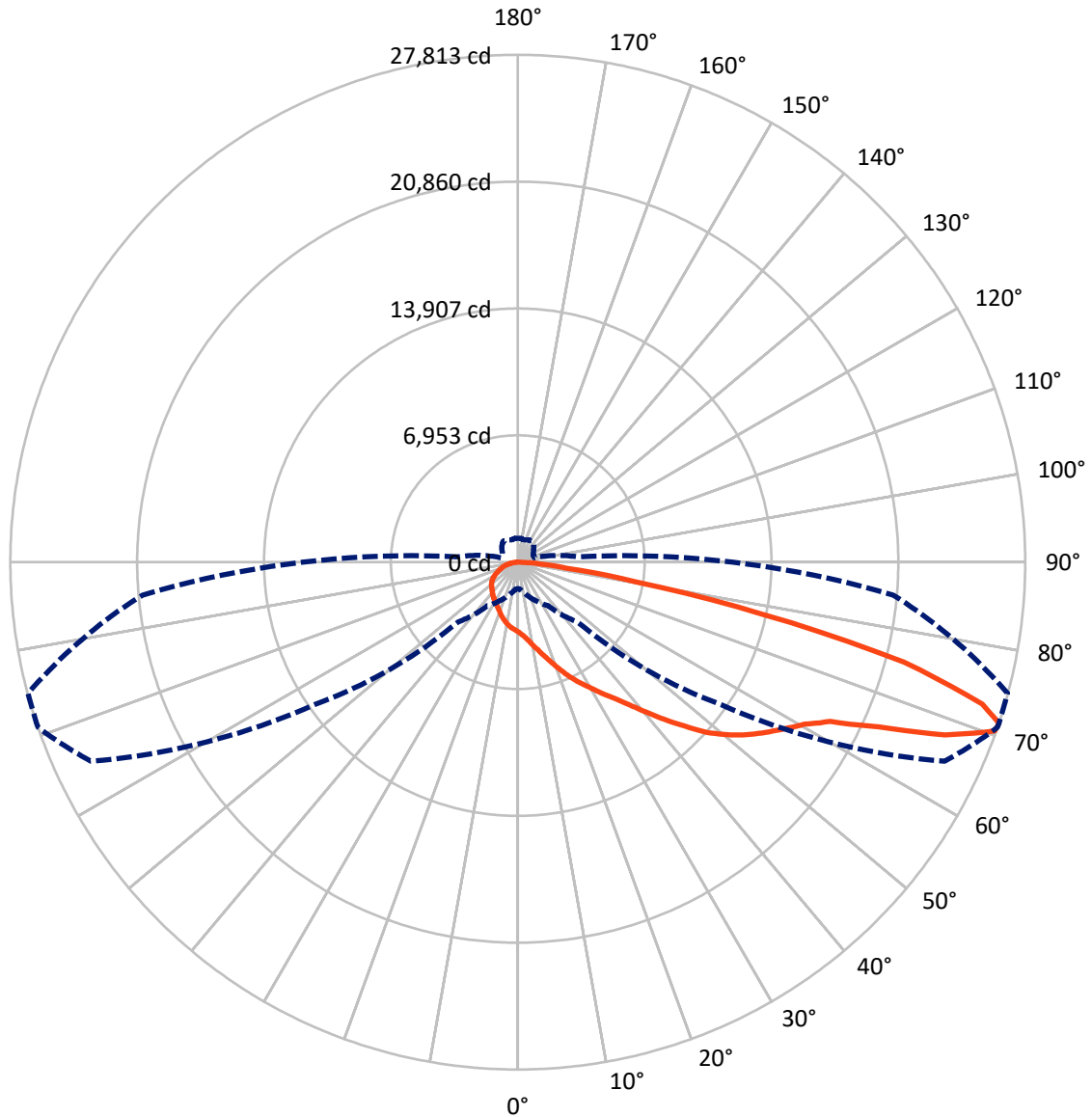
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	5585.9	0.0	5585.9
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25473.1	0.0	25473.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	31059.0	0.0	31059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	1.2
10°-20°	1243.5	4.0
20°-30°	2173.1	7.0
30°-40°	3232.2	10.4
40°-50°	4762.2	15.3
50°-60°	6667.2	21.5
60°-70°	7457.0	24.0
70°-80°	4555.1	14.7
80°-90°	586.0	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°	31059.0	100.0
0°-180°	31059.0	100.0

Coefficient of Utilization



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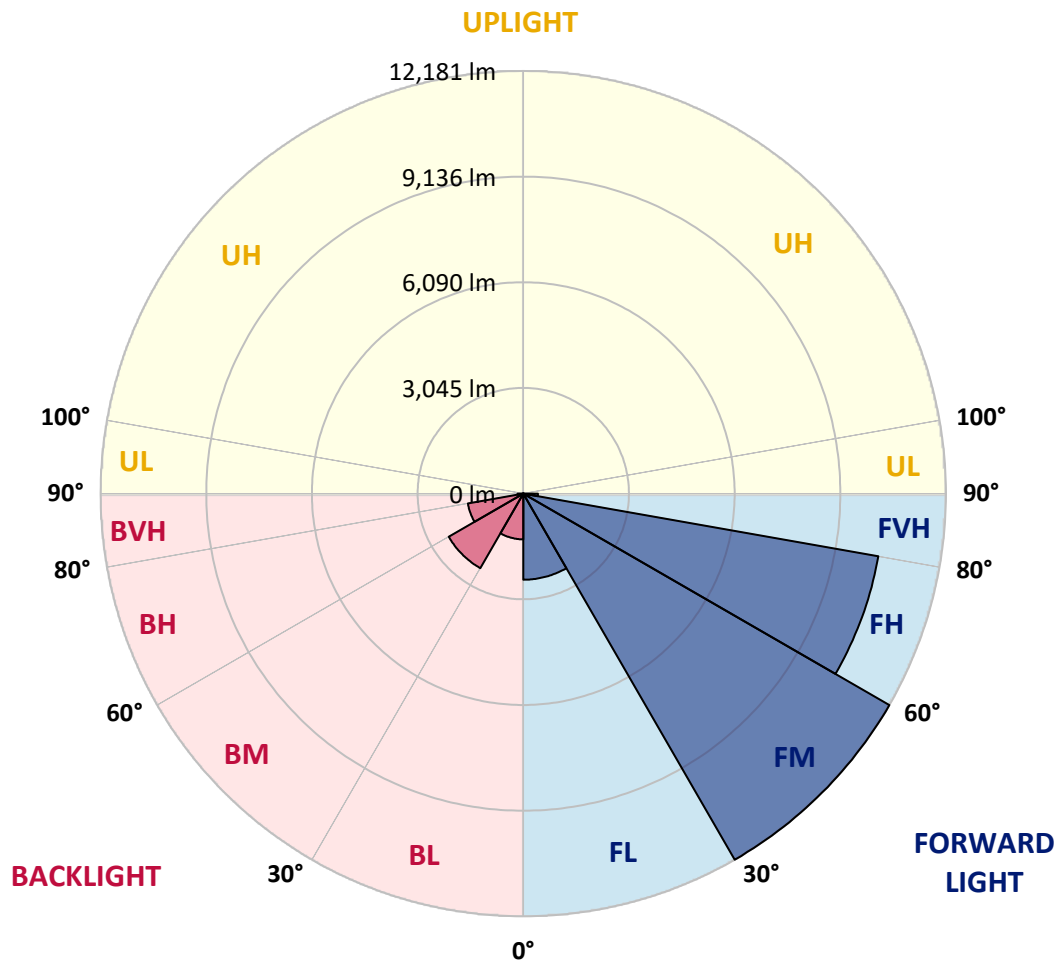
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.6	8.0			
FM (30°-60°)	12180.7	39.2			
FH (60°-80°)	10389.1	33.4			G4/12000
FVH (80°-90°)	421.6	1.4			G3/500
BL (0°-30°)	1317.7	4.2	B3/2500		
BM (30°-60°)	2480.9	8.0	B2/2500		
BH (60°-80°)	1622.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	164.3	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°	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9
2.5°	4231.8	4211.3	4213.0	4184.0	4146.5	4105.5	4047.5	3996.2	3955.3	3931.4	3861.4
5°	4689.3	4668.8	4643.2	4580.1	4552.7	4452.0	4324.0	4207.9	4119.2	4069.6	3929.7
7.5°	5059.7	5054.6	5047.8	5011.9	4942.0	4802.0	4692.7	4491.3	4359.8	4266.0	4027.0
10°	5288.5	5297.0	5302.1	5309.0	5280.0	5206.6	5056.3	4802.0	4634.7	4515.2	4153.3
12.5°	5404.6	5413.1	5442.1	5505.3	5544.6	5536.0	5413.1	5163.9	4933.4	4776.4	4288.2
15°	5476.3	5489.9	5541.1	5624.8	5756.2	5839.9	5780.1	5549.7	5297.0	5111.0	4448.6
17.5°	5554.8	5570.2	5626.5	5746.0	5918.4	6099.3	6164.2	5966.2	5691.4	5469.4	4627.9
20°	5599.2	5619.7	5699.9	5856.9	6058.4	6321.3	6536.4	6432.2	6131.8	5886.0	4834.4
22.5°	5670.9	5687.9	5756.2	5923.5	6164.2	6493.7	6908.5	6886.3	6621.7	6304.2	5061.5
25°	5865.5	5892.8	5926.9	6027.7	6259.8	6669.5	7217.5	7371.1	7096.3	6741.2	5269.7
27.5°	6232.5	6254.7	6253.0	6266.6	6398.1	6821.4	7485.5	7850.8	7567.4	7183.3	5471.1
30°	6650.7	6659.3	6666.1	6635.4	6664.4	6976.8	7731.3	8325.4	8042.0	7637.4	5647.0
32.5°	7159.4	7176.5	7118.5	7039.9	7016.0	7207.2	7934.4	8799.9	8603.6	8098.3	5821.1
35°	7760.3	7804.7	7686.9	7548.6	7451.3	7538.4	8207.6	9284.7	9178.9	8687.3	6051.6
37.5°	8446.6	8501.2	8391.9	8120.5	7982.2	8006.1	8564.4	9883.9	9906.1	9358.1	6394.7
40°	9008.2	9079.9	9083.3	8699.2	8489.2	8516.6	9016.7	10529.2	10783.5	10187.8	6799.2
42.5°	9378.6	9448.6	9522.0	9296.7	9076.5	9231.8	9544.2	11229.1	11770.2	11194.9	7364.3
45°	9784.9	9848.1	9889.0	9786.6	9663.7	10066.6	10180.9	11973.4	12821.8	12319.9	7982.2
47.5°	10256.1	10326.0	10365.3	10268.0	10221.9	10798.9	10867.2	12668.1	13945.0	13412.4	8665.1
50°	10884.3	10937.2	10916.7	10855.2	10845.0	11360.5	11526.1	13318.5	14872.0	14588.6	9373.5
52.5°	11666.1	11729.3	11751.4	11664.4	11625.1	11761.7	12057.0	13910.9	15715.3	15599.2	10129.7
55°	12139.0	12239.7	12577.7	12714.2	12808.1	12280.6	12628.9	14564.7	16471.5	16664.4	10942.3
57.5°	11532.9	11662.7	12418.9	13101.7	13984.3	13578.0	13439.7	15247.5	17227.7	17697.2	11915.3
60°	10054.6	10083.6	11058.4	12316.5	14091.8	15245.8	15131.4	16333.2	18047.1	18738.5	13197.3
62.5°	6975.1	7036.5	8188.8	10196.3	12763.7	15846.7	18009.6	18207.6	19221.6	20297.0	15076.8
65°	3596.8	3516.6	4566.4	6408.3	9622.7	14419.6	20341.4	21654.1	21768.5	22734.7	17722.8
67.5°	2214.1	2249.9	2741.5	3741.9	5689.7	10479.7	20097.3	25865.5	25262.9	25727.2	20179.2
70°	1662.7	1707.1	2045.1	2560.6	3468.8	5991.8	16162.5	26886.3	27727.9	27608.4	20926.9
71°	1445.9	1492.0	1843.6	2330.1	2914.0	4624.4	13617.3	25817.7	27813.2	27792.8	20645.3
72.5°	1232.5	1261.5	1536.4	1973.4	2456.5	3241.7	10230.4	23154.7	26626.8	27307.9	19639.8
75°	967.9	990.1	1113.0	1505.6	1934.1	1990.4	5489.9	17359.2	21869.2	23166.6	16350.3
77.5°	788.7	804.0	867.2	1118.1	1492.0	1410.0	2879.8	11299.1	13700.9	15006.8	9631.3
80°	626.5	643.6	681.1	757.9	1118.1	1005.5	1374.2	5725.5	6618.3	6604.6	3844.3
82.5°	486.5	491.6	536.0	556.5	764.8	713.6	744.3	2424.0	2685.2	2774.0	1387.8
85°	307.3	322.6	474.6	426.8	457.5	418.2	367.0	962.8	1186.4	1169.3	554.8
87.5°	93.9	99.0	160.5	180.9	203.1	182.7	134.9	283.4	346.5	375.6	138.3
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°	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9	3811.9
2.5°	3834.1	3815.3	3748.7	3694.1	3642.9	3586.5	3538.7	3525.1	3513.1	3508.0	3506.3
5°	3869.9	3813.6	3682.1	3574.6	3489.2	3410.7	3361.2	3339.0	3316.8	3316.8	3323.7
7.5°	3921.1	3818.7	3615.6	3455.1	3347.6	3274.2	3238.3	3234.9	3240.0	3245.1	3246.8
10°	3977.5	3815.3	3518.3	3318.5	3222.9	3188.8	3190.5	3219.5	3246.8	3267.3	3270.7
12.5°	4032.1	3794.8	3403.9	3190.5	3129.1	3135.9	3183.7	3248.5	3301.5	3330.5	3332.2
15°	4093.5	3762.4	3265.6	3069.3	3048.8	3101.7	3190.5	3289.5	3369.7	3417.5	3422.7
17.5°	4144.8	3707.7	3120.5	2951.5	2977.1	3074.4	3197.3	3325.4	3422.7	3482.4	3492.7
20°	4202.8	3637.8	2970.3	2838.9	2912.3	3043.7	3183.7	3322.0	3422.7	3480.7	3494.4
22.5°	4248.9	3538.7	2826.9	2746.7	2854.2	3006.1	3137.6	3248.5	3330.5	3361.2	3381.7
25°	4267.7	3414.1	2692.0	2671.6	2808.1	2944.7	3033.5	3096.6	3122.2	3118.8	3127.3
27.5°	4257.4	3270.7	2576.0	2611.8	2750.1	2849.1	2893.5	2888.4	2842.3	2799.6	2820.1
30°	4214.7	3100.0	2478.7	2550.4	2675.0	2729.6	2722.8	2656.2	2569.1	2488.9	2494.0
32.5°	4137.9	2915.7	2388.2	2480.4	2569.1	2593.0	2546.9	2459.9	2335.3	2231.1	2215.8
35°	4073.1	2739.8	2308.0	2400.1	2463.3	2451.3	2407.0	2294.3	2181.6	2089.4	2074.1
37.5°	4062.8	2589.6	2231.1	2309.7	2345.5	2328.4	2273.8	2178.2	2137.2	2067.3	2058.7
40°	4117.4	2483.8	2152.6	2214.1	2231.1	2217.5	2157.7	2103.1	2140.7	2123.6	2123.6
42.5°	4266.0	2427.4	2082.6	2118.5	2132.1	2142.4	2099.7	2053.6	2099.7	2021.2	1995.6
45°	4501.5	2429.2	2019.5	2024.6	2065.6	2101.4	2072.4	2004.1	1980.2	1823.1	1792.4
47.5°	4848.1	2487.2	1968.2	1935.8	2009.2	2069.0	2028.0	1929.0	1823.1	1719.0	1700.2
50°	5252.6	2591.3	1922.2	1843.6	1934.1	2028.0	1997.3	1881.2	1771.9	1708.8	1696.8
52.5°	5701.6	2722.8	1865.8	1741.2	1841.9	2009.2	2004.1	1874.4	1724.1	1681.5	1671.2
55°	6256.4	2852.5	1795.8	1621.7	1760.0	1993.9	1985.3	1818.0	1713.9	1683.2	1679.8
57.5°	6901.7	3040.3	1695.1	1500.5	1666.1	1930.7	1911.9	1783.9	1679.8	1657.6	1655.9
60°	7941.3	3332.2	1551.7	1389.6	1570.5	1819.7	1843.6	1725.8	1625.1	1620.0	1618.3
62.5°	9308.6	3741.9	1403.2	1275.2	1459.5	1676.3	1744.6	1647.3	1567.1	1592.7	1596.1
65°	11196.6	4086.7	1249.6	1177.9	1336.6	1538.1	1650.7	1573.9	1502.2	1551.7	1551.7
67.5°	12427.4	4093.5	1109.6	1077.2	1212.0	1422.0	1551.7	1486.9	1418.6	1502.2	1505.6
70°	12171.4	3586.5	993.5	971.3	1090.8	1297.4	1442.5	1391.3	1312.7	1387.8	1360.5
71°	11758.3	3304.9	947.4	930.4	1043.0	1237.6	1391.3	1348.6	1270.1	1319.6	1304.2
72.5°	11099.3	2869.6	872.3	875.7	971.3	1162.5	1319.6	1275.2	1196.7	1224.0	1218.8
75°	9382.0	2506.0	746.0	761.4	834.8	1034.5	1176.2	1142.0	1061.8	1061.8	1056.7
77.5°	5865.5	1751.5	619.7	628.2	708.4	886.0	1010.6	981.6	904.7	879.1	872.3
80°	2188.5	904.7	484.8	495.0	544.6	698.2	836.5	809.1	730.6	701.6	674.3
82.5°	827.9	454.1	356.8	348.2	401.2	532.6	655.5	623.1	561.6	491.6	471.2
85°	312.4	225.3	218.5	211.7	235.6	315.8	406.3	399.5	334.6	285.1	280.0
87.5°	81.9	73.4	85.4	63.2	66.6	59.7	61.5	25.6	11.9	5.1	3.4
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)