

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: P531206

Luminaire Tested: **GALN-SA6C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30638 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

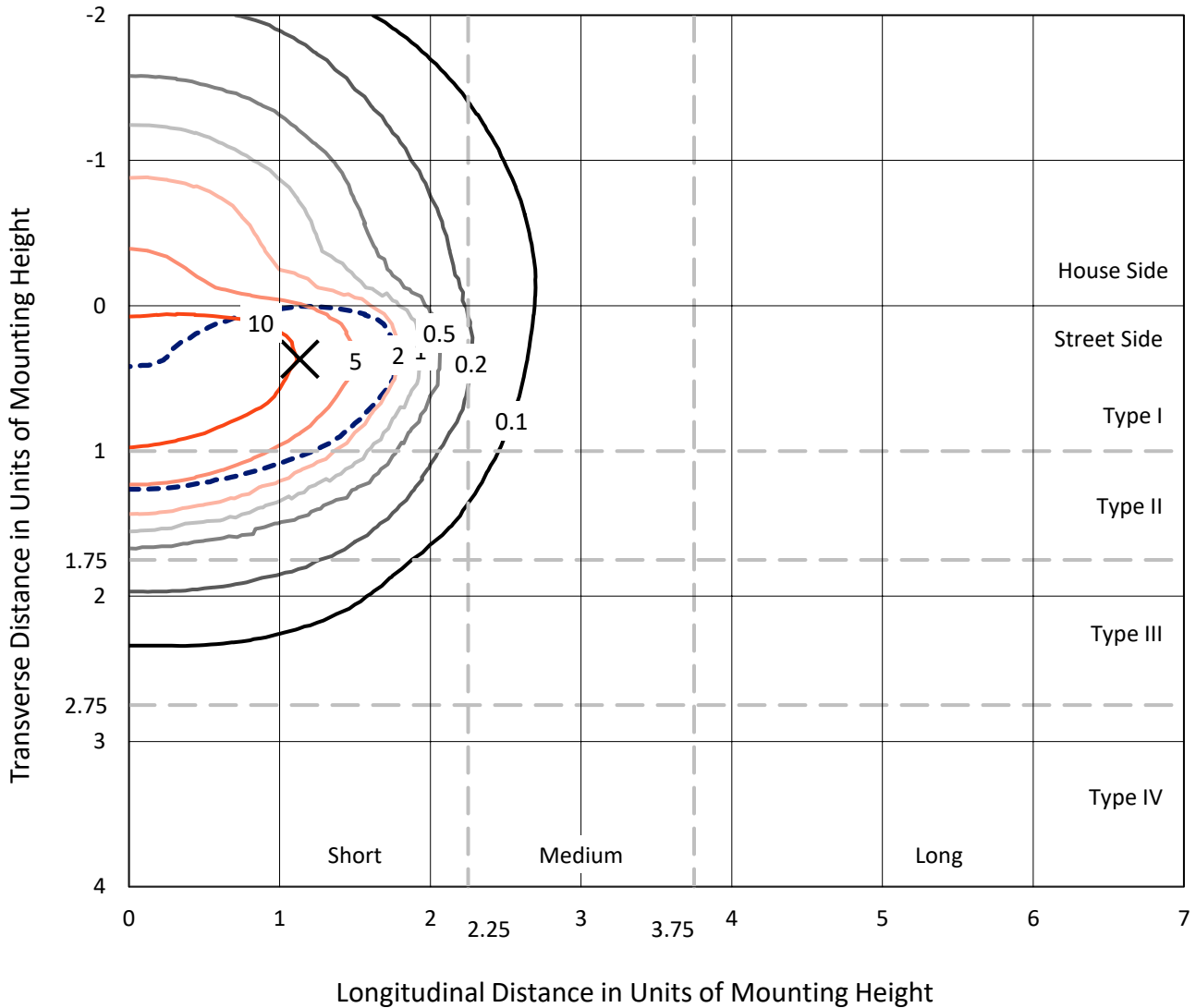
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

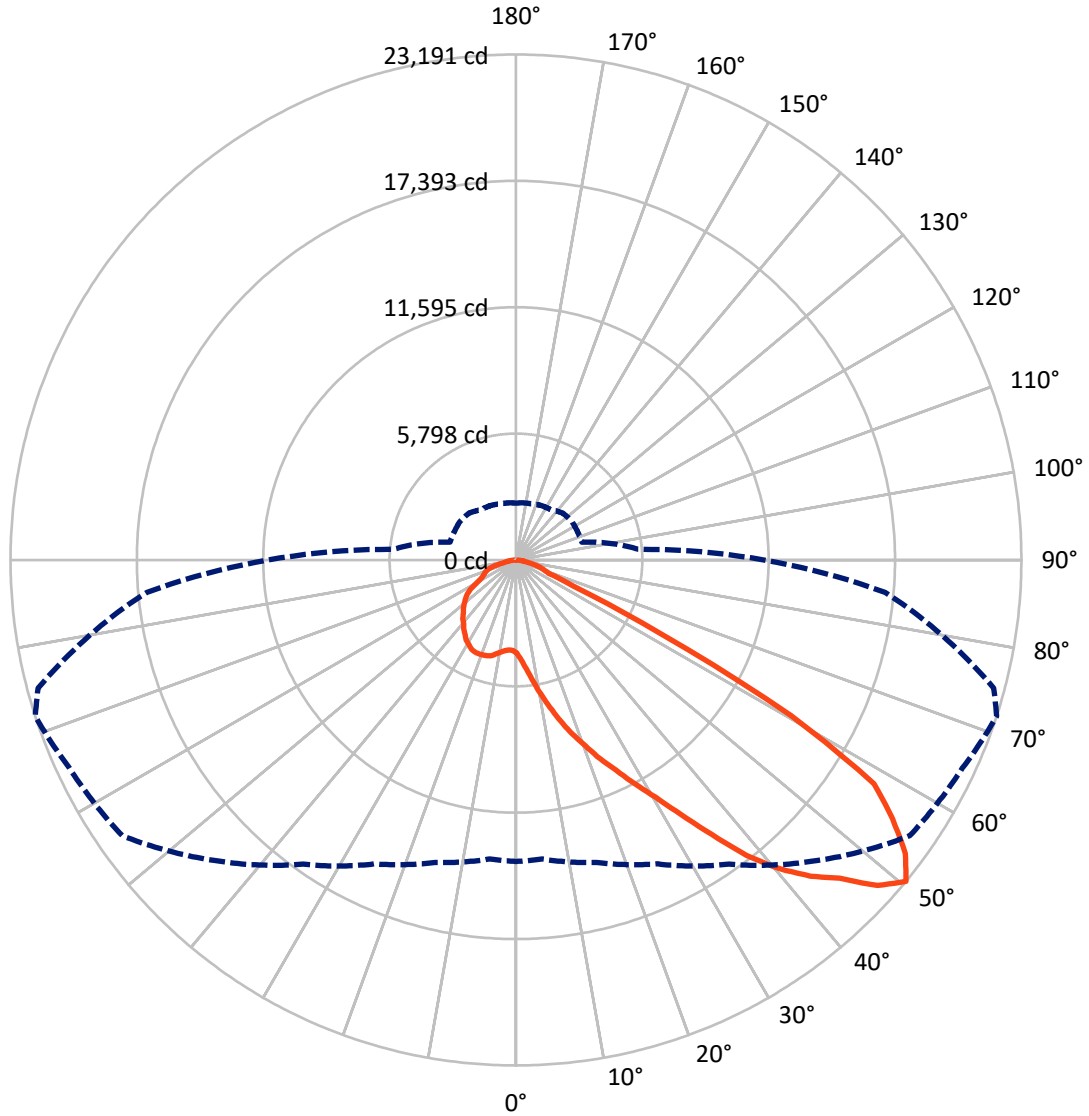
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7019.3	0.0	7019.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23618.6	0.0	23618.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	30638.0	0.0	30638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.7	1.6
10°-20°	1875.5	6.1
20°-30°	3636.4	11.9
30°-40°	6024.2	19.7
40°-50°	8429.2	27.5
50°-60°	7111.1	23.2
60°-70°	2167.4	7.1
70°-80°	760.4	2.5
80°-90°	132.2	0.4
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°	30638.0	100.0
0°-180°	30638.0	100.0

Coefficient of Utilization

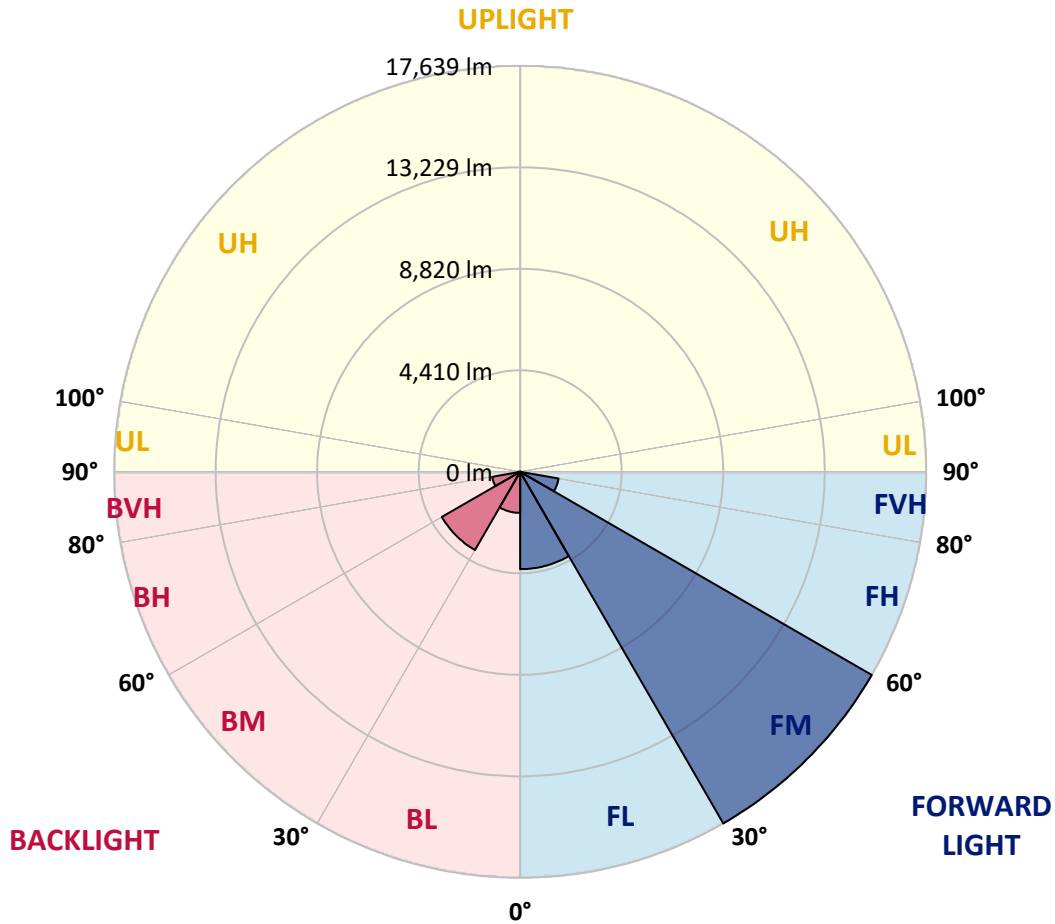


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4229.1	13.8			
FM (30°-60°)	17639.1	57.6			
FH (60°-80°)	1691.2	5.5			G1/1800
FVH (80°-90°)	59.2	0.2			G1/100
BL (0°-30°)	1784.3	5.8	B3/2500		
BM (30°-60°)	3925.3	12.8	B3/5000		
BH (60°-80°)	1236.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	73.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	5485.8	5451.7	5349.3	5315.2	5193.9	4974.0	4898.2	4674.5	4579.7	4492.5	4390.2
5°	6937.8	6778.6	6767.2	6573.9	6293.3	6130.3	5645.1	5319.0	5019.5	4867.9	4587.3
7.5°	7862.9	7866.7	7866.7	7707.5	7483.8	7070.5	6634.6	6046.9	5595.8	5372.1	4894.4
10°	8742.4	8666.6	8624.9	8609.8	8458.1	8056.2	7589.9	6862.0	6244.1	5982.5	5125.7
12.5°	9364.2	9299.8	9394.5	9345.2	9235.3	8973.7	8533.9	7703.7	6930.3	6577.7	5497.2
15°	9659.9	9705.4	9781.2	9917.7	9868.4	9769.9	9284.6	8568.1	7669.5	7271.5	5827.0
17.5°	10114.9	9989.7	10080.7	10251.3	10387.8	10342.3	10065.6	9193.6	8401.2	7912.2	6270.6
20°	10433.3	10361.3	10406.8	10603.9	10706.3	10964.1	10820.0	10012.5	9102.6	8587.0	6793.8
22.5°	11343.2	11237.0	11089.2	11119.5	11157.4	11339.4	11373.5	10911.0	9917.7	9371.8	7290.4
25°	12465.4	12366.8	12192.4	12014.2	11904.3	11870.2	11987.7	11616.2	10698.7	10133.8	7825.0
27.5°	13701.3	13534.5	13424.5	13056.8	12761.1	12715.6	12658.7	12457.8	11623.7	11013.4	8427.8
30°	14903.1	14770.4	14622.6	14034.9	13727.8	13678.6	13398.0	13454.9	12628.4	11949.8	9110.2
32.5°	15813.0	15824.4	15486.9	15043.4	14755.2	14493.7	14391.3	14554.3	13917.4	13371.5	9872.2
35°	16548.5	16582.6	16260.3	15858.5	15547.6	15729.6	15684.1	15759.9	15456.6	14789.4	10759.4
37.5°	17265.0	17094.4	16749.4	16556.1	16393.0	16692.5	17079.2	17143.7	17200.6	16415.8	11790.6
40°	17382.5	17397.7	17196.8	17333.2	17128.5	17579.7	18478.2	18394.8	18626.0	17939.8	12908.9
42.5°	17215.7	17249.8	17329.5	17522.8	18015.7	18557.8	19892.3	19551.1	19831.6	19221.3	13997.0
45°	16942.8	16802.5	16901.1	17636.5	18489.6	19695.1	21185.1	20919.7	20828.7	20316.9	15293.6
47.5°	15638.6	15782.7	16089.7	16995.8	18277.3	19892.3	22102.5	22041.9	22314.9	21954.7	16472.7
50°	13830.2	13773.3	14364.8	15384.6	17037.5	19505.6	22053.3	22603.0	23190.6	22690.2	16999.6
52.5°	10357.5	10660.8	11168.8	12435.1	14793.2	17397.7	20976.6	21894.0	22371.7	22265.6	16575.0
55°	6547.4	6638.3	6945.4	8450.5	10573.6	13962.9	17981.5	20108.4	20961.4	21359.5	16184.5
57.5°	3180.8	3010.2	3385.5	4594.9	6107.6	9390.7	13868.1	17515.2	19369.1	20089.4	15335.3
60°	1660.5	1725.0	1872.8	2305.0	3158.0	4875.4	8643.9	11673.0	14505.0	15612.1	11623.7
62.5°	1376.2	1398.9	1497.5	1713.6	2100.3	2805.5	4412.9	5690.6	7396.6	8393.7	6611.8
65°	1167.7	1179.1	1285.2	1429.3	1675.7	1975.2	2270.9	2377.1	2877.5	2953.3	2350.5
67.5°	974.3	985.7	1099.4	1235.9	1395.2	1474.8	1550.6	1543.0	1599.9	1577.1	1573.3
70°	750.7	762.0	879.6	1023.6	1103.2	1057.7	1292.8	1345.9	1368.6	1387.6	1417.9
72.5°	542.1	564.9	655.9	758.2	716.5	822.7	1065.3	1144.9	1175.3	1186.6	1224.5
75°	394.3	401.9	424.6	394.3	454.9	572.5	750.7	849.2	887.1	898.5	955.4
77.5°	174.4	178.2	182.0	227.5	291.9	356.4	447.4	527.0	580.0	595.2	610.4
80°	91.0	94.8	117.5	155.4	208.5	261.6	326.0	371.5	405.7	409.4	424.6
82.5°	56.9	60.7	83.4	109.9	147.9	193.3	238.8	276.8	303.3	307.1	310.9
85°	26.5	34.1	49.3	68.2	98.6	125.1	128.9	109.9	117.5	121.3	113.7
87.5°	7.6	11.4	15.2	11.4	15.2	15.2	19.0	22.7	22.7	22.7	26.5
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°	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1	4265.1
2.5°	4333.3	4299.2	4166.5	4117.2	3988.3	4011.1	3942.8	3939.0	3923.9	3920.1	3916.3
5°	4439.5	4333.3	4174.1	4052.8	3980.7	3973.2	3923.9	3923.9	3939.0	3950.4	3923.9
7.5°	4613.9	4492.5	4223.4	4109.6	4045.2	4033.8	3999.7	3973.2	4007.3	3995.9	3965.6
10°	4814.8	4602.5	4318.1	4219.6	4113.4	4086.9	4086.9	4098.3	4041.4	4060.3	4030.0
12.5°	5038.5	4754.1	4439.5	4325.7	4200.6	4185.5	4177.9	4094.5	4124.8	4109.6	4033.8
15°	5322.8	4928.5	4594.9	4401.6	4295.4	4227.2	4128.6	4113.4	4094.5	4056.6	4022.4
17.5°	5629.9	5118.1	4666.9	4424.3	4265.1	4215.8	4140.0	4060.3	4003.5	4011.1	3984.5
20°	5891.5	5292.5	4693.5	4447.0	4242.3	4147.5	4030.0	3980.7	3920.1	3916.3	3912.5
22.5°	6202.4	5527.5	4731.4	4386.4	4174.1	4075.5	3995.9	3908.7	3867.0	3813.9	3840.5
25°	6573.9	5618.5	4739.0	4352.3	4124.8	3950.4	3908.7	3813.9	3798.8	3722.9	3738.1
27.5°	6843.1	5667.8	4678.3	4246.1	4011.1	3878.4	3802.5	3734.3	3707.8	3650.9	3635.7
30°	7203.2	5743.6	4549.4	4113.4	3897.3	3749.5	3704.0	3688.8	3613.0	3552.3	3544.7
32.5°	7612.7	5792.9	4466.0	3976.9	3779.8	3666.1	3688.8	3616.8	3522.0	3468.9	3453.8
35°	7938.7	5811.9	4257.5	3821.5	3700.2	3628.2	3601.6	3586.5	3450.0	3400.7	3362.8
37.5°	8435.4	5770.2	4083.1	3711.6	3613.0	3586.5	3563.7	3461.3	3305.9	3233.9	3180.8
40°	9015.4	5758.8	3859.4	3556.1	3529.6	3559.9	3491.7	3332.4	3116.3	3036.7	2998.8
42.5°	9572.7	5838.4	3719.1	3472.7	3438.6	3450.0	3355.2	3116.3	3010.2	2964.7	2904.0
45°	10505.3	6005.2	3487.9	3343.8	3328.7	3321.1	3207.3	2957.1	2896.5	2839.6	2828.2
47.5°	11347.0	5895.3	3340.0	3211.1	3226.3	3184.6	2942.0	2862.3	2794.1	2737.2	2718.3
50°	11396.3	5633.7	3131.5	3108.8	3112.6	3040.5	2809.3	2756.2	2669.0	2631.1	2604.5
52.5°	11138.5	5205.3	2938.2	2945.7	2957.1	2839.6	2646.2	2608.3	2536.3	2483.2	2468.1
55°	10414.4	4538.0	2748.6	2778.9	2809.3	2585.6	2524.9	2430.1	2373.3	2297.5	2301.2
57.5°	9174.6	3654.7	2483.2	2532.5	2597.0	2350.5	2305.0	2187.5	2104.1	2043.4	2035.9
60°	6149.3	2600.7	2085.1	2104.1	2248.2	2149.6	2145.8	2028.3	1914.5	1861.5	1831.1
62.5°	3628.2	1986.6	1800.8	1781.9	1778.1	1834.9	1929.7	1888.0	1740.1	1637.8	1668.1
65°	1899.4	1717.4	1675.7	1611.2	1573.3	1558.2	1630.2	1649.2	1550.6	1440.6	1433.1
67.5°	1596.1	1596.1	1562.0	1539.2	1486.1	1421.7	1376.2	1315.5	1300.4	1270.0	1232.1
70°	1452.0	1489.9	1478.6	1425.5	1380.0	1308.0	1190.4	1091.9	997.1	963.0	985.7
72.5°	1266.3	1304.2	1304.2	1277.6	1217.0	1107.0	993.3	879.6	799.9	739.3	731.7
75°	974.3	993.3	1038.8	1008.5	928.8	860.6	743.1	625.5	549.7	492.9	481.5
77.5°	621.8	652.1	652.1	648.3	591.4	527.0	451.1	367.7	310.9	269.2	257.8
80°	413.2	432.2	447.4	432.2	394.3	345.0	288.1	231.3	189.6	155.4	147.9
82.5°	303.3	326.0	337.4	322.2	284.3	246.4	204.7	163.0	121.3	94.8	87.2
85°	117.5	121.3	136.5	163.0	159.2	155.4	125.1	91.0	68.2	49.3	45.5
87.5°	30.3	26.5	30.3	30.3	26.5	22.7	22.7	22.7	22.7	11.4	15.2
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)