

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: P532154

Luminaire Tested: **GALN-SA7C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40242 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

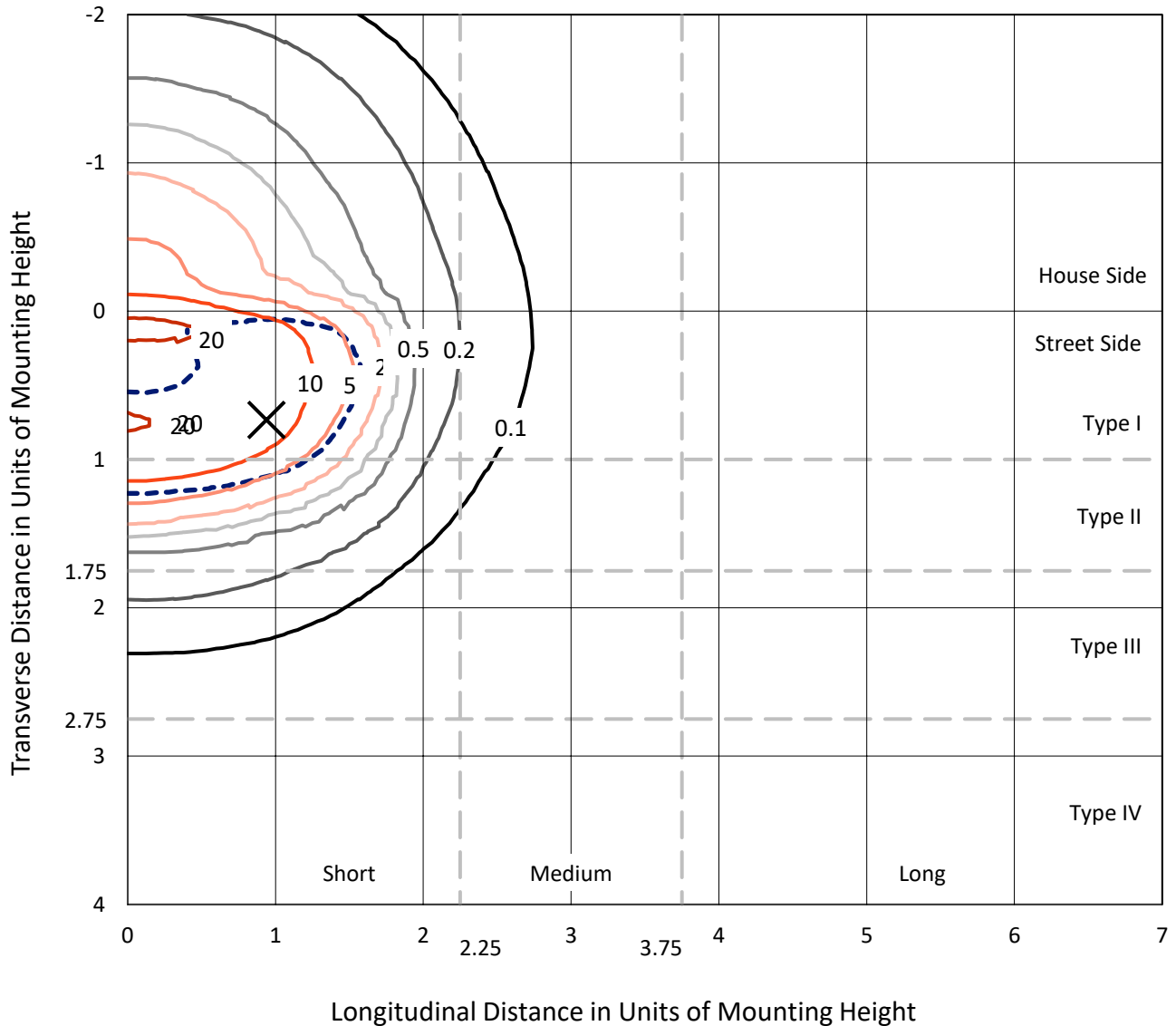
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

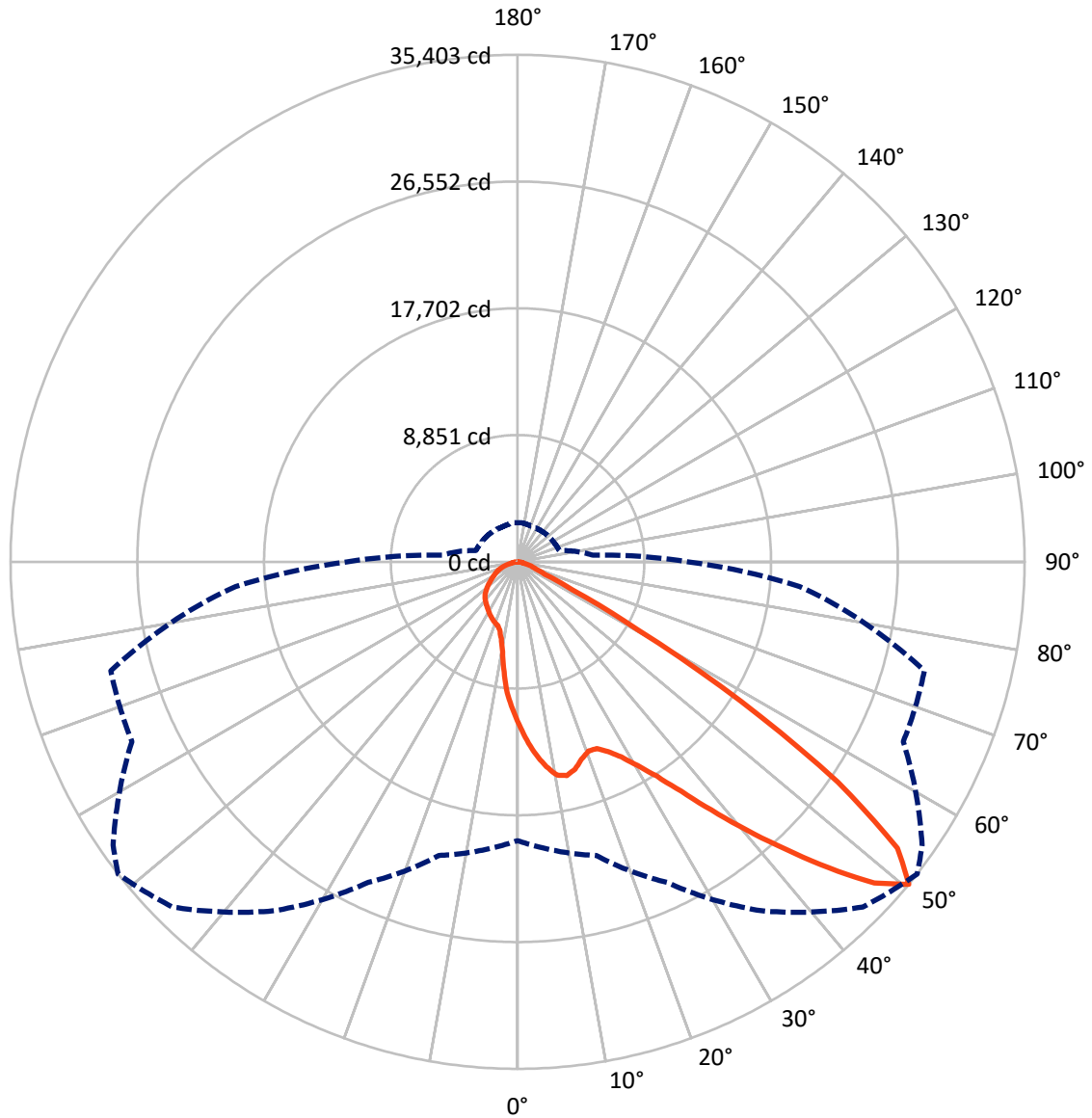
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7564.5	0.0	7564.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	32677.4	0.0	32677.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	40242.0	0.0	40242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1045.5	2.6
10°-20°	2802.3	7.0
20°-30°	4720.3	11.7
30°-40°	7921.1	19.7
40°-50°	12117.4	30.1
50°-60°	8834.5	22.0
60°-70°	1966.1	4.9
70°-80°	709.2	1.8
80°-90°	125.5	0.3
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°	40242.0	100.0
0°-180°	40242.0	100.0

Coefficient of Utilization

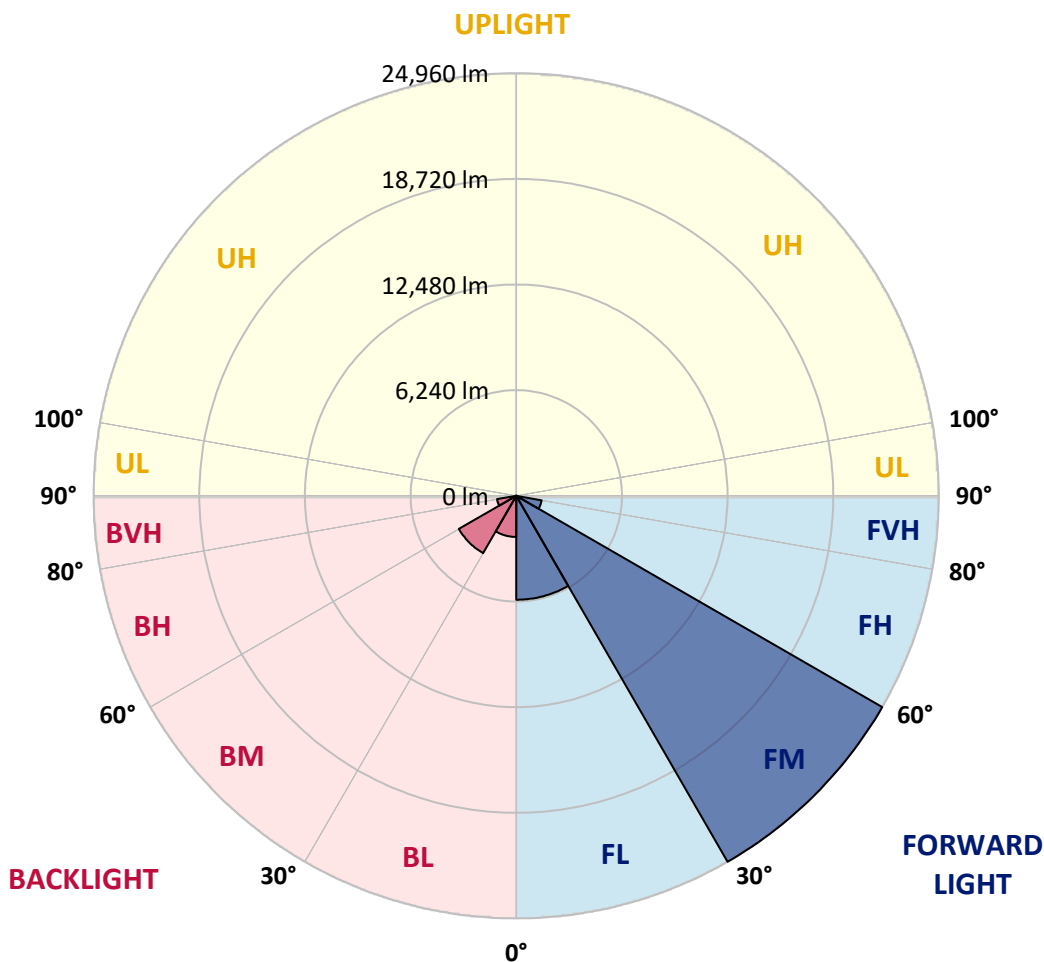


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6138.3	15.3			
FM (30°-60°)	24960.1	62.0			
FH (60°-80°)	1522.8	3.8			G1/1800
FVH (80°-90°)	56.2	0.1			G1/100
BL (0°-30°)	2429.9	6.0	B3/2500		
BM (30°-60°)	3912.9	9.7	B3/5000		
BH (60°-80°)	1152.5	2.9	B3/2500		G3/2500
BVH (80°-90°)	69.3	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°	52°	55°	65°	75°	85°
0°	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6
2.5°	13356.2	13099.2	13128.3	12944.0	12745.1	12686.9	12483.2	12289.3	12143.8	11833.4	11547.2
5°	14597.7	14520.1	14403.7	14258.2	14107.9	13739.3	13530.8	13288.3	12754.8	12274.7	11799.4
7.5°	14777.2	14762.6	14825.7	14825.7	14879.0	14738.4	14442.5	14272.8	13705.4	12924.6	12041.9
10°	13516.2	13559.9	13865.4	14263.1	14816.0	15199.1	15150.6	15107.0	14486.2	13419.2	12328.1
12.5°	12512.3	12415.3	12594.8	12934.3	13763.6	14689.9	15315.5	15320.3	15160.3	14209.8	12536.6
15°	11944.9	12012.8	12061.3	12221.4	12847.0	13918.8	15019.7	15344.6	16047.8	14767.5	12866.4
17.5°	12308.7	12080.7	12071.0	12109.8	12429.9	13235.0	14471.6	15029.4	16532.8	15485.2	13273.8
20°	12783.9	12779.1	12643.3	12594.8	12589.9	13307.7	14112.8	14869.3	16789.8	16416.4	13686.0
22.5°	13618.1	13618.1	13395.0	13288.3	13060.4	13647.2	14161.3	14675.3	17216.6	17056.6	13884.8
25°	15014.8	14786.9	14403.7	14141.9	14010.9	14219.5	14675.3	15136.1	17590.0	17735.5	14297.0
27.5°	16304.8	15946.0	15756.8	15305.8	15131.2	15010.0	15427.0	15892.6	18026.5	18792.8	14520.1
30°	17769.5	17706.4	17366.9	16785.0	16353.3	16130.3	16513.4	16974.1	18826.7	19874.3	15034.2
32.5°	20388.3	19816.1	19355.3	18642.4	17939.2	17463.9	17842.2	18147.7	20155.5	21004.2	15596.8
35°	23215.7	23031.4	22236.1	20950.9	19874.3	19447.5	19670.6	19898.5	21702.6	22730.8	16542.5
37.5°	25994.6	25742.4	25087.7	24006.2	22696.8	21828.7	21988.7	22255.5	23438.8	25058.6	17696.7
40°	27992.7	27682.3	27352.6	27192.5	25892.8	24704.6	24612.5	24680.4	25786.1	27241.0	18977.1
42.5°	28138.2	28521.3	28623.2	29268.2	28962.7	27987.9	27420.5	27435.0	28026.7	29399.2	20271.9
45°	27832.7	27478.7	28230.4	29990.8	30999.6	31455.4	30500.0	30378.8	29413.7	30650.4	20916.9
47.5°	24627.0	24724.0	25994.6	28778.4	31693.1	33730.0	33506.9	33104.4	30155.7	30606.7	20815.1
50°	19466.9	20053.7	21232.2	24699.7	29753.2	34088.9	35403.1	34472.0	29714.4	29404.0	19777.3
52.5°	12963.4	13205.9	13981.8	18458.1	23923.8	30470.9	33220.8	33434.1	29307.0	27827.8	18463.0
55°	5771.2	5751.8	6843.0	9641.3	15010.0	23186.6	27144.0	28443.8	27740.5	26222.6	17182.6
57.5°	2444.3	2526.7	2972.9	4165.9	7381.3	13991.5	18390.2	19529.9	21334.0	21532.9	13181.6
60°	1653.8	1663.5	1784.7	2085.4	3089.3	6571.4	9646.1	11013.8	12303.8	12216.5	6993.3
62.5°	1299.7	1333.7	1425.8	1547.1	1833.2	2982.6	4316.3	5077.7	5160.1	4340.5	2652.8
65°	1110.6	1115.4	1207.6	1309.4	1435.5	1736.2	2080.5	2119.3	2143.6	2066.0	1949.6
67.5°	916.6	926.3	999.0	1115.4	1231.8	1328.8	1425.8	1474.3	1585.9	1804.1	1775.0
70°	727.5	742.0	805.1	902.1	1008.7	1066.9	1188.2	1231.8	1333.7	1503.4	1571.3
72.5°	552.9	557.7	611.1	679.0	776.0	834.2	936.0	984.5	1052.4	1197.9	1260.9
75°	397.7	412.2	451.0	485.0	499.5	538.3	635.3	688.7	785.7	848.7	853.6
77.5°	208.5	218.2	227.9	227.9	276.4	349.2	412.2	441.3	509.2	557.7	533.5
80°	82.4	87.3	111.5	150.3	194.0	252.2	295.8	310.4	368.6	397.7	412.2
82.5°	48.5	53.3	72.7	106.7	140.6	179.4	213.4	227.9	266.7	300.7	310.4
85°	24.2	29.1	43.6	67.9	92.1	111.5	106.7	101.8	101.8	97.0	101.8
87.5°	9.7	9.7	14.5	14.5	14.5	19.4	24.2	24.2	24.2	29.1	29.1
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°	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6	11343.6
2.5°	11358.1	11164.1	10984.7	10654.9	10296.0	10194.2	9777.1	9626.7	9520.0	9394.0	9355.2
5°	11416.3	11159.3	10582.1	9917.7	9389.1	8710.1	8264.0	7783.8	7434.7	7347.4	7323.1
7.5°	11537.5	11096.2	10102.0	9098.1	8016.6	7095.2	6392.0	6013.7	5679.1	5659.7	5625.7
10°	11673.3	10907.1	9578.2	8002.1	6619.9	5766.3	5344.4	5179.5	5097.1	5077.7	5068.0
12.5°	11784.9	10868.3	8991.4	6935.1	5630.6	5116.5	4990.4	4975.8	5009.8	5019.5	5038.9
15°	11833.4	10713.1	8283.4	5979.7	5014.6	4825.5	4878.8	4937.0	4961.3	5024.3	4975.8
17.5°	11925.5	10514.2	7410.4	5223.2	4670.3	4704.3	4796.4	4864.3	4903.1	4946.7	4883.7
20°	11974.0	10334.8	6590.8	4772.1	4549.1	4612.1	4738.2	4791.5	4840.0	4859.4	4786.7
22.5°	11930.4	9966.2	5868.2	4408.4	4432.7	4515.1	4626.7	4684.9	4655.8	4578.2	4534.5
25°	11814.0	9447.3	5116.5	4175.6	4267.8	4413.3	4500.6	4456.9	4403.6	4359.9	4345.4
27.5°	11809.1	8812.0	4573.3	3962.2	4127.1	4326.0	4296.9	4258.1	4282.3	4248.4	4209.6
30°	11833.4	8196.1	4127.1	3841.0	4025.3	4122.3	4156.2	4117.4	4146.5	4083.5	4102.9
32.5°	11707.3	7594.7	3836.1	3700.4	3904.0	3899.2	4010.7	4039.8	3971.9	3841.0	3860.4
35°	11760.6	7109.7	3588.8	3637.3	3768.3	3768.3	3855.5	3821.6	3642.2	3564.6	3584.0
37.5°	12129.2	6634.5	3467.6	3550.0	3637.3	3676.1	3647.0	3501.5	3457.9	3457.9	3467.6
40°	12478.4	6227.1	3394.8	3530.6	3516.1	3540.3	3326.9	3341.5	3341.5	3346.3	3322.1
42.5°	12788.8	5950.6	3336.6	3414.2	3438.5	3312.4	3181.4	3166.9	3200.8	3196.0	3176.6
45°	12900.3	5722.7	3254.2	3283.3	3302.7	3094.1	3031.1	3002.0	3040.8	3055.3	3074.7
47.5°	12473.5	5533.6	3162.0	3103.8	3065.0	2929.2	2846.8	2793.5	2842.0	2924.4	2943.8
50°	11925.5	5286.2	3016.5	2905.0	2822.6	2764.4	2706.2	2652.8	2686.8	2745.0	2730.4
52.5°	11115.6	4898.2	2832.3	2715.9	2575.2	2589.8	2536.4	2507.3	2526.7	2526.7	2512.2
55°	9961.4	4025.3	2521.9	2439.4	2323.0	2361.8	2371.5	2332.7	2293.9	2327.9	2298.8
57.5°	6799.3	2842.0	2250.3	2250.3	2133.9	2187.2	2182.4	2090.2	1998.1	2007.8	1988.4
60°	3933.1	2264.8	2075.7	2056.3	1935.0	1978.7	1988.4	1925.3	1784.7	1794.4	1775.0
62.5°	2235.7	1935.0	1813.8	1784.7	1760.5	1799.3	1799.3	1716.8	1595.6	1605.3	1585.9
65°	1901.1	1794.4	1619.8	1615.0	1605.3	1615.0	1576.2	1488.9	1382.2	1338.5	1343.4
67.5°	1726.5	1658.6	1488.9	1445.2	1416.1	1411.3	1338.5	1256.1	1207.6	1168.8	1163.9
70°	1513.1	1459.8	1333.7	1275.5	1246.4	1178.5	1105.7	1052.4	984.5	965.1	984.5
72.5°	1197.9	1193.0	1144.5	1081.5	1018.4	965.1	902.1	829.3	766.3	751.7	717.8
75°	829.3	839.0	848.7	839.0	785.7	717.8	645.0	586.8	509.2	465.6	455.9
77.5°	543.2	557.7	572.3	552.9	518.9	455.9	407.4	334.6	276.4	242.5	237.6
80°	397.7	417.1	426.8	412.2	373.4	324.9	271.6	213.4	169.7	140.6	140.6
82.5°	305.5	324.9	334.6	310.4	271.6	232.8	194.0	150.3	116.4	92.1	87.3
85°	106.7	101.8	121.2	126.1	150.3	140.6	116.4	87.3	67.9	48.5	43.6
87.5°	29.1	29.1	33.9	33.9	29.1	24.2	24.2	24.2	19.4	14.5	14.5
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)