

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: P459289

Luminaire Tested: **GALN-SA7C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459289
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-SA7C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45236 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

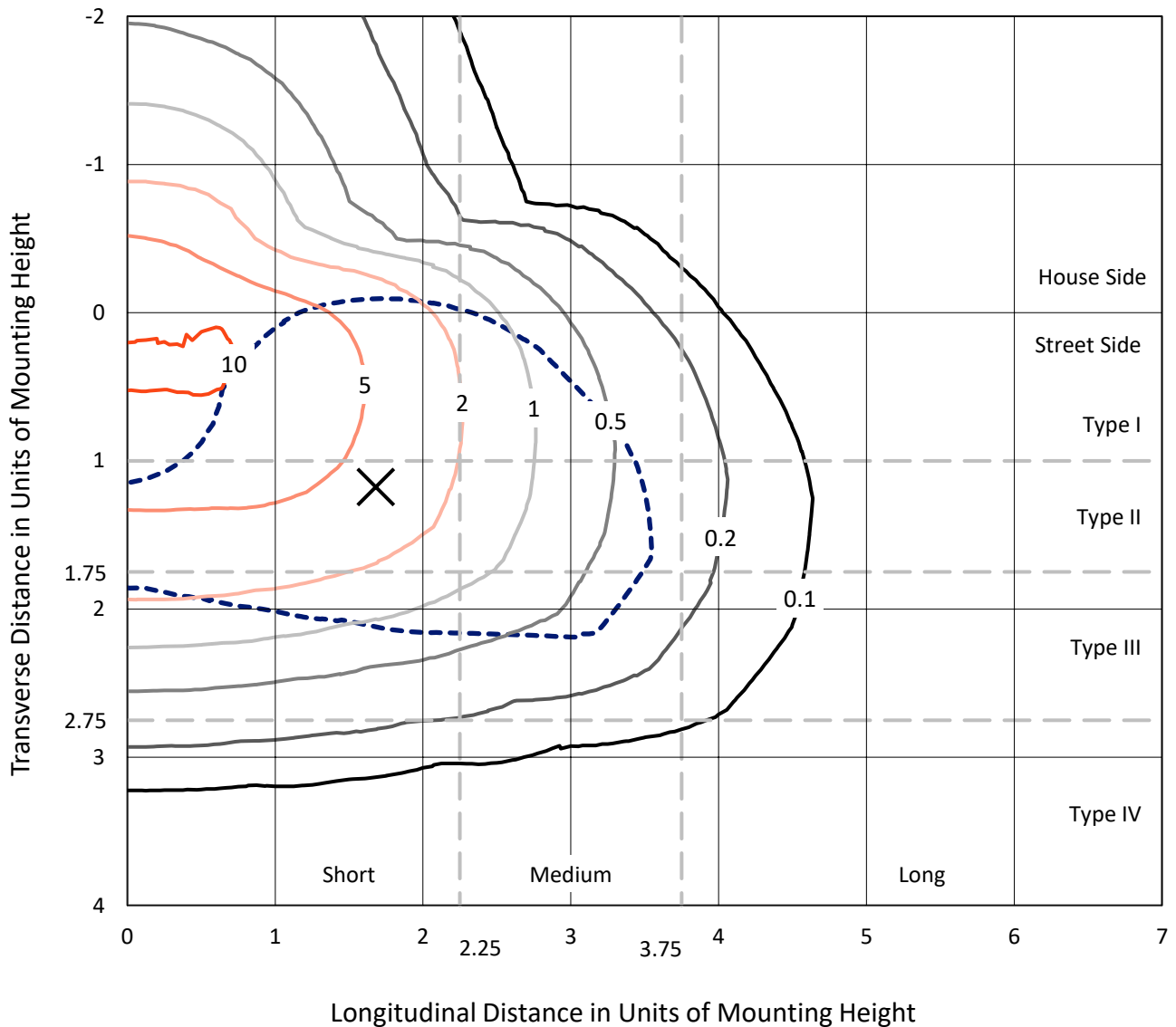
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

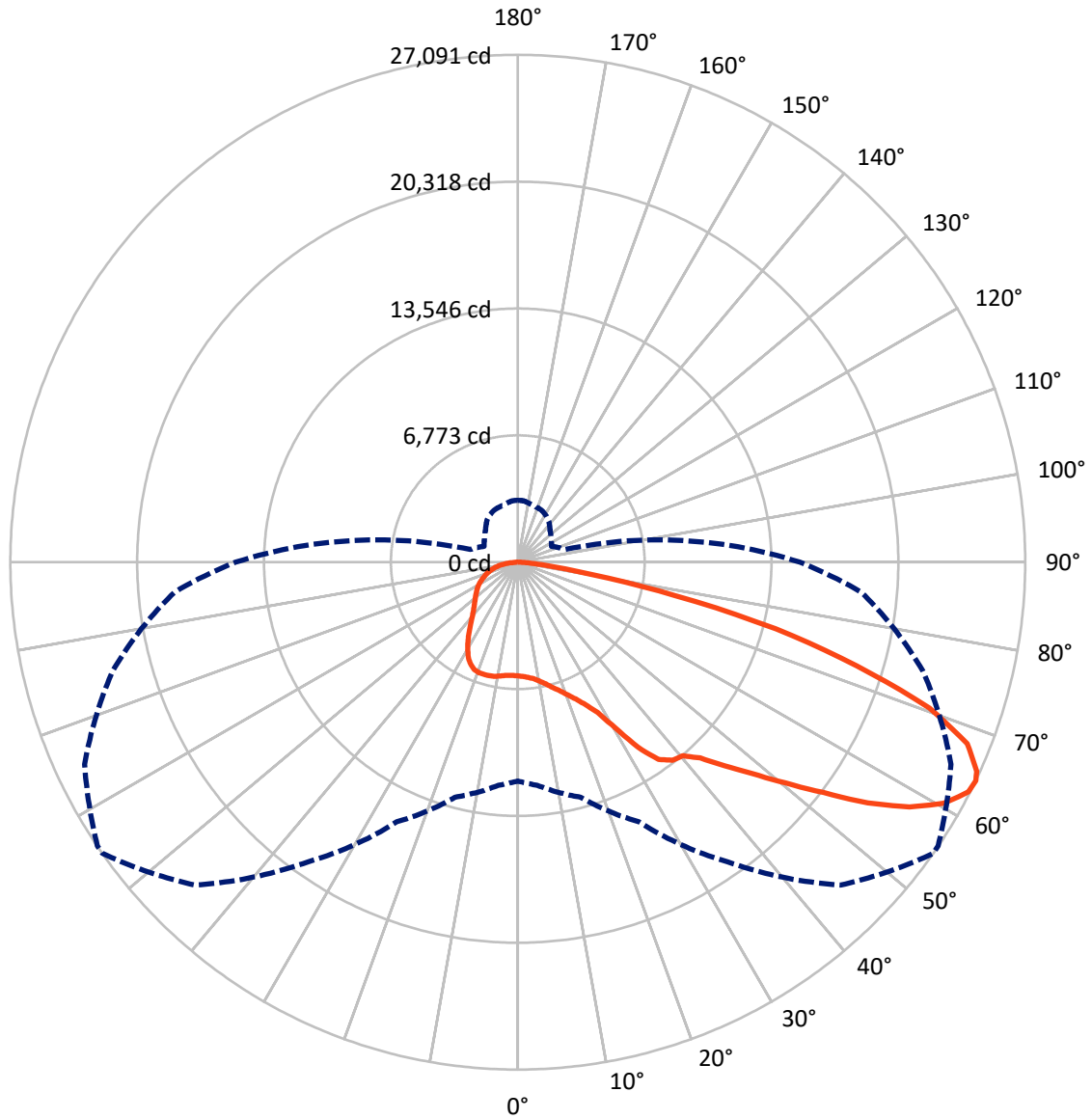
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	10988.7	0.0	10988.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	34247.3	0.0	34247.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	45236.0	0.0	45236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.4	1.3
10°-20°	1862.8	4.1
20°-30°	3316.3	7.3
30°-40°	5102.5	11.3
40°-50°	7233.3	16.0
50°-60°	10470.0	23.1
60°-70°	10835.3	24.0
70°-80°	5074.2	11.2
80°-90°	751.2	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°	45236.0	100.0
0°-180°	45236.0	100.0

Coefficient of Utilization



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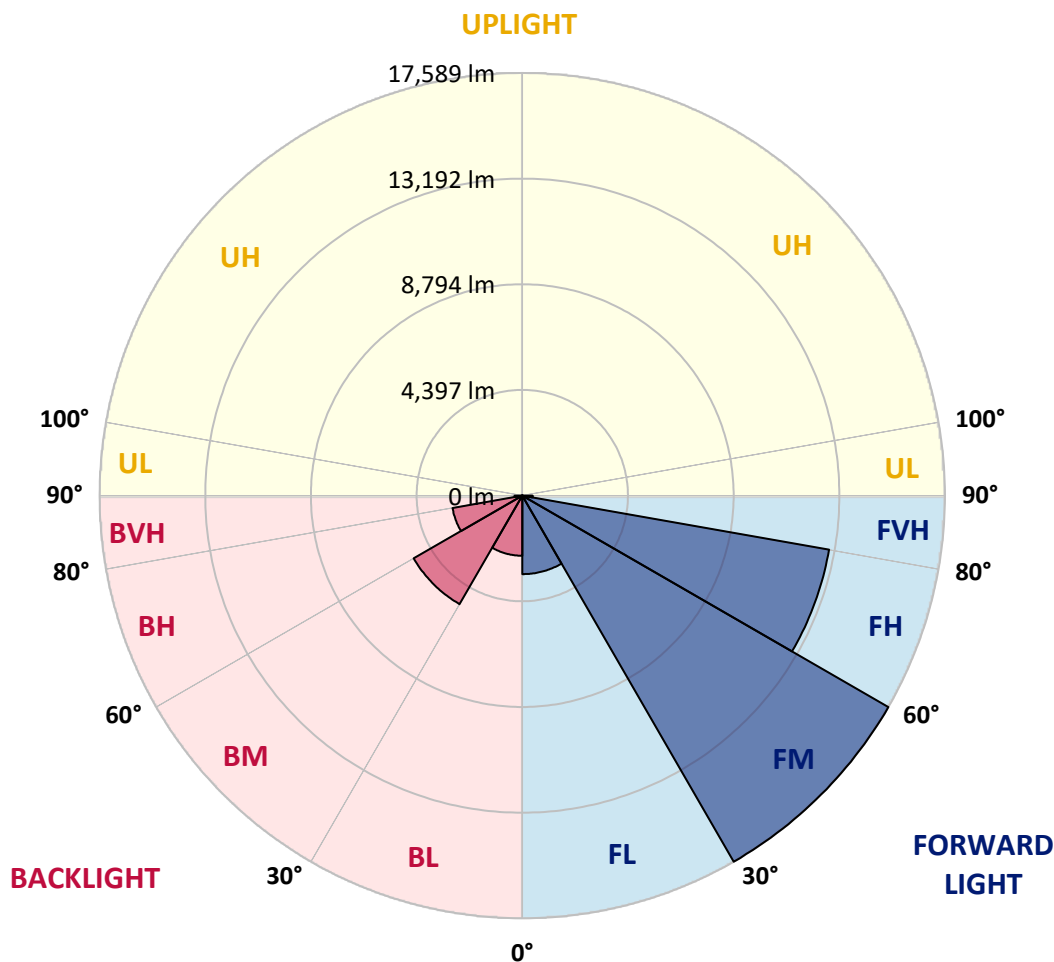
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3266.8	7.2			
FM	(30°-60°)	17589.0	38.9			
FH	(60°-80°)	12961.4	28.7			G5
FVH	(80°-90°)	430.1	1.0			G3/500
BL	(0°-30°)	2502.8	5.5	B4/5000		
BM	(30°-60°)	5216.8	11.5	B4/8500		
BH	(60°-80°)	2948.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	321.1	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3
2.5°	6137.4	6134.9	6142.4	6134.9	6139.9	6122.3	6114.7	6119.7	6112.2	6099.6	6076.9
5°	6213.0	6210.5	6213.0	6202.9	6208.0	6197.9	6180.3	6185.3	6172.7	6145.0	6112.2
7.5°	6341.6	6331.5	6331.5	6329.0	6318.9	6303.8	6291.2	6286.2	6273.5	6238.2	6187.8
10°	6508.1	6508.1	6510.6	6490.4	6503.0	6475.3	6462.7	6460.1	6417.3	6371.9	6301.3
12.5°	6727.4	6740.0	6732.5	6722.4	6717.3	6707.3	6664.4	6674.5	6626.6	6548.4	6462.7
15°	6999.7	7019.9	7007.3	7002.3	6989.7	6951.8	6934.2	6926.6	6863.6	6750.1	6636.6
17.5°	7360.3	7335.1	7325.0	7312.4	7259.5	7231.7	7201.5	7196.4	7141.0	7007.3	6830.8
20°	7675.5	7710.8	7690.6	7678.0	7625.1	7572.1	7549.4	7541.9	7494.0	7347.7	7065.3
22.5°	8051.2	8058.8	8066.4	8036.1	8010.9	7970.5	7930.2	7917.6	7899.9	7748.6	7403.2
25°	8452.1	8482.4	8457.2	8426.9	8396.7	8394.2	8432.0	8426.9	8419.4	8273.1	7852.0
27.5°	9105.2	9133.0	9140.5	9107.7	8991.8	9001.8	9087.6	9115.3	9231.3	8989.2	8429.5
30°	9473.4	9501.1	9564.1	9687.7	9871.8	10033.1	10239.9	10302.9	10413.9	9957.5	9115.3
32.5°	9700.3	9710.4	9823.9	10053.3	10605.5	11208.2	11770.5	11793.2	11863.8	11223.3	9743.2
35°	10058.4	10065.9	10156.7	10408.8	11056.9	12060.4	12930.4	12958.1	12900.1	11616.7	10035.7
37.5°	10499.6	10519.8	10577.8	10787.1	11561.2	12774.0	13412.0	13391.8	12877.4	11929.3	10552.6
40°	11142.6	11142.6	11074.5	11356.9	12093.2	13182.5	13580.9	13545.6	13409.5	12834.6	11339.3
42.5°	11710.0	11699.9	11861.2	12052.9	12758.9	13812.9	14289.5	14347.5	14571.9	13971.8	12234.4
45°	12448.8	12494.1	12584.9	12932.9	13891.1	14889.6	15504.8	15560.3	15878.0	15310.7	13280.9
47.5°	13195.1	13210.3	13495.2	13959.2	15293.0	16349.6	16853.9	16944.6	17234.6	16876.6	14408.0
50°	13724.6	13868.4	14324.8	15056.0	16737.9	18129.8	18523.1	18631.5	19143.4	18581.1	15721.7
52.5°	14284.4	14425.6	14982.9	16097.4	18397.0	19950.3	20434.4	20507.5	21039.6	20305.8	17065.7
55°	14763.5	14894.6	15527.5	17020.3	19718.3	21808.7	22686.1	22600.4	22855.1	21634.7	18102.0
57.5°	14841.7	14947.6	15744.4	17610.3	20711.8	23402.3	24660.5	24710.9	24415.9	22628.1	18956.8
60°	14236.5	14453.4	15368.7	17547.3	21158.1	24511.7	26133.1	26168.4	25331.2	23137.5	19297.2
62.5°	13164.9	13142.2	14249.1	16533.6	20532.8	24763.9	27000.5	26962.6	25689.3	22892.9	18966.9
64°	11684.7	11957.1	12990.9	15288.0	19524.2	24375.6	27091.2	27071.1	25517.8	22383.6	18404.6
65°	10782.0	10766.9	11788.1	14269.3	18520.6	23790.6	26929.9	26902.1	25159.8	21927.2	17968.4
67.5°	7783.9	7819.2	8827.9	11011.5	15056.0	21503.5	25878.4	25775.0	23747.7	20414.3	16309.2
70°	4715.2	4735.4	5527.2	7304.9	10807.2	17383.4	23326.6	23331.7	21586.8	18155.0	13881.0
72.5°	2483.7	2536.7	2854.4	4147.9	6563.5	12196.6	18924.0	19372.9	18533.2	15494.8	10966.1
75°	1381.8	1389.4	1613.8	2045.0	3348.6	6825.8	14223.9	14352.5	14672.7	12471.5	8109.2
77.5°	1054.0	1069.1	1139.7	1321.3	1823.1	3164.5	8608.5	9254.0	10340.8	8792.6	4627.0
80°	854.8	869.9	930.4	1038.9	1212.9	1500.3	3999.1	4347.1	5534.7	3903.3	1805.4
82.5°	665.7	655.6	733.8	804.4	882.5	887.6	1641.5	1815.5	2254.2	1679.3	781.7
85°	494.2	494.2	557.3	542.1	569.9	519.4	723.7	799.3	902.7	713.6	363.1
87.5°	196.7	216.9	365.6	327.8	254.7	204.2	267.3	282.4	312.7	279.9	151.3
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°	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3	6069.3
2.5°	6079.4	6087.0	6069.3	6056.7	6051.7	6044.1	6036.5	6039.0	6049.1	6059.2	6056.7
5°	6109.7	6112.2	6081.9	6066.8	6056.7	6046.6	6046.6	6054.2	6074.3	6089.5	6089.5
7.5°	6185.3	6185.3	6142.4	6114.7	6099.6	6081.9	6076.9	6079.4	6094.5	6114.7	6117.2
10°	6303.8	6293.7	6238.2	6195.4	6167.6	6124.8	6087.0	6066.8	6074.3	6087.0	6087.0
12.5°	6447.5	6419.8	6349.2	6291.2	6223.1	6142.4	6064.3	6023.9	6021.4	6034.0	6029.0
15°	6601.3	6571.1	6472.7	6366.8	6248.3	6129.8	6036.5	5978.5	5933.1	5920.5	5948.3
17.5°	6780.4	6717.3	6581.2	6434.9	6258.4	6104.6	5958.4	5839.8	5759.2	5736.5	5744.0
20°	6997.2	6914.0	6729.9	6500.5	6250.9	6013.8	5786.9	5628.0	5496.9	5456.6	5461.6
22.5°	7297.3	7153.6	6883.8	6533.3	6187.8	5842.4	5527.2	5320.4	5161.6	5098.5	5136.3
25°	7637.7	7481.4	7030.0	6525.7	6023.9	5567.5	5219.6	4949.7	4806.0	4712.7	4732.9
27.5°	8106.7	7829.3	7186.3	6457.6	5789.4	5232.2	4828.7	4574.0	4442.9	4395.0	4417.7
30°	8706.8	8280.7	7355.3	6273.5	5418.8	4808.5	4435.4	4268.9	4190.8	4130.3	4150.4
32.5°	9140.5	8598.4	7393.1	5963.4	5017.8	4422.8	4168.1	4044.5	3958.8	3900.8	3913.4
35°	9450.7	8868.2	7375.5	5582.7	4599.3	4105.0	3956.3	3855.4	3716.7	3590.6	3568.0
37.5°	9866.7	9206.1	7246.9	5166.6	4185.7	3890.7	3784.8	3598.2	3399.0	3230.1	3222.5
40°	10504.7	9602.0	6972.0	4677.4	3832.7	3731.9	3603.3	3361.2	3146.9	3010.7	3000.6
42.5°	11162.8	9967.6	6598.8	4163.0	3542.7	3565.4	3409.1	3169.6	3038.4	2950.2	2940.1
45°	11967.1	10363.5	6195.4	3716.7	3328.4	3409.1	3240.2	3101.5	3023.3	2965.3	2950.2
47.5°	12837.1	10769.4	5741.5	3315.8	3146.9	3265.4	3169.6	3106.5	3063.7	3023.3	3005.7
50°	13775.1	11223.3	5315.4	2993.0	2983.0	3116.6	3162.0	3139.3	3114.1	3101.5	3086.3
52.5°	14803.9	11687.3	4957.3	2766.1	2839.2	3010.7	3164.5	3182.2	3182.2	3174.6	3164.5
55°	15499.8	12010.0	4594.2	2582.0	2693.0	2925.0	3159.5	3227.5	3252.8	3242.7	3232.6
57.5°	16014.2	12186.5	4137.8	2423.2	2569.4	2841.8	3131.7	3232.6	3257.8	3270.4	3265.4
60°	16120.1	12022.6	3540.2	2256.8	2435.8	2720.7	3030.9	3156.9	3189.7	3267.9	3275.5
62.5°	15643.5	11518.3	2945.1	2092.9	2271.9	2536.7	2894.7	3071.2	3136.8	3257.8	3270.4
64°	15058.5	10953.5	2614.8	1989.5	2166.0	2433.3	2826.6	3048.5	3134.3	3295.6	3305.7
65°	14629.9	10542.5	2408.1	1923.9	2097.9	2365.2	2788.8	3056.1	3156.9	3353.6	3368.8
67.5°	13051.4	9127.9	1992.0	1770.1	1936.5	2249.2	2796.4	3119.1	3151.9	3376.3	3373.8
70°	10799.7	7267.0	1669.2	1628.9	1780.2	2155.9	2766.1	3018.3	3020.8	3169.6	3134.3
72.5°	8086.5	5370.8	1447.4	1482.7	1606.2	1934.0	2612.3	2882.1	2839.2	2859.4	2824.1
75°	5554.9	3552.8	1245.6	1326.3	1424.7	1709.6	2395.4	2617.3	2549.3	2524.0	2498.8
77.5°	2965.3	1964.3	1036.3	1172.5	1238.1	1477.6	2090.3	2304.7	2234.1	2135.7	2103.0
80°	1200.2	925.4	834.6	970.8	1008.6	1190.2	1739.9	1873.5	1820.5	1649.1	1593.6
82.5°	602.6	554.7	655.6	764.0	766.5	849.8	1293.5	1419.6	1301.1	1091.8	1043.9
85°	315.2	325.3	451.4	537.1	474.0	458.9	776.6	859.8	789.2	685.9	617.8
87.5°	113.5	131.1	237.0	234.5	166.4	88.3	171.5	83.2	45.4	27.7	35.3
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)