

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: P650957

Luminaire Tested: **GALN-SA6C-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34997.4 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

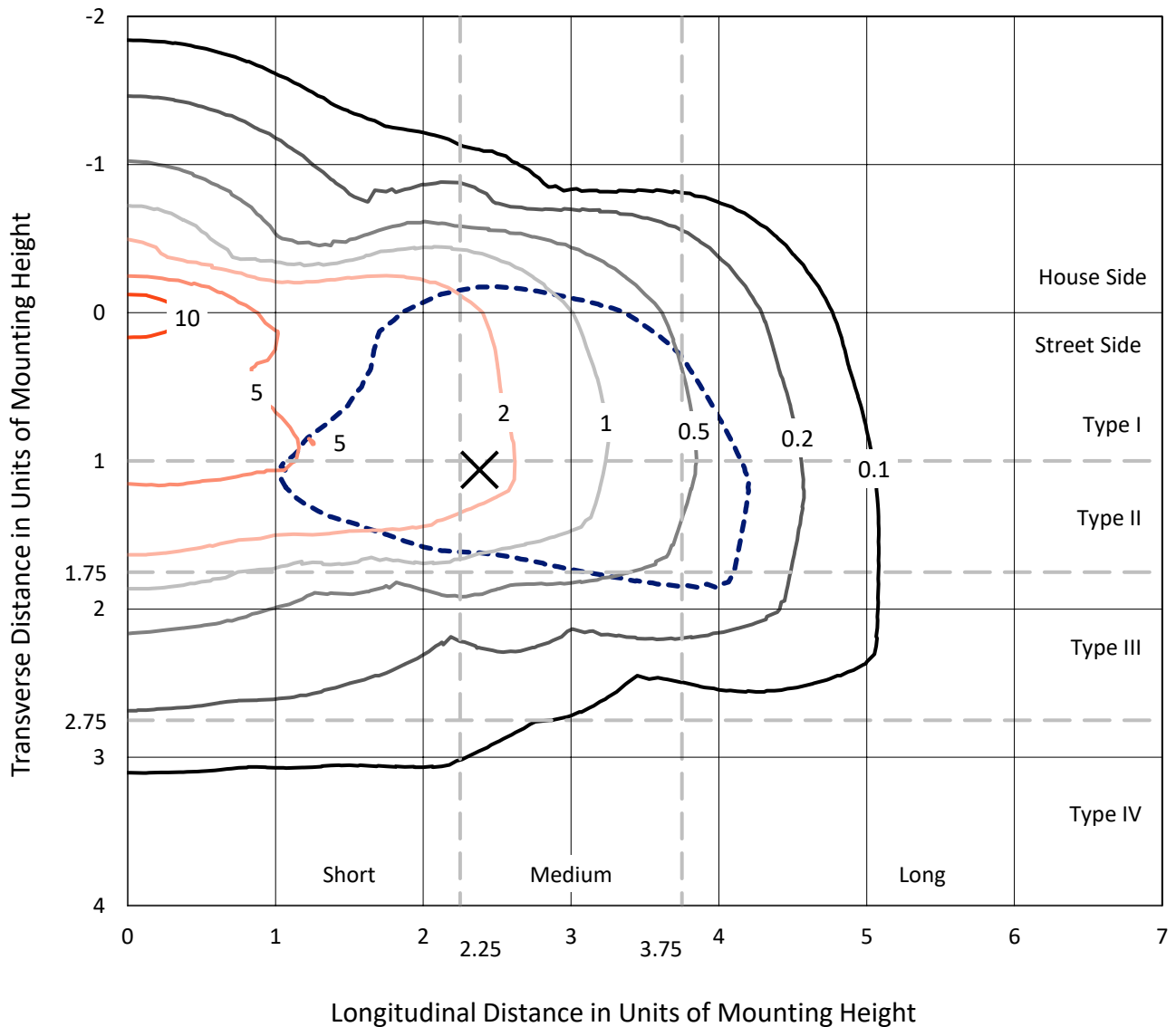
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

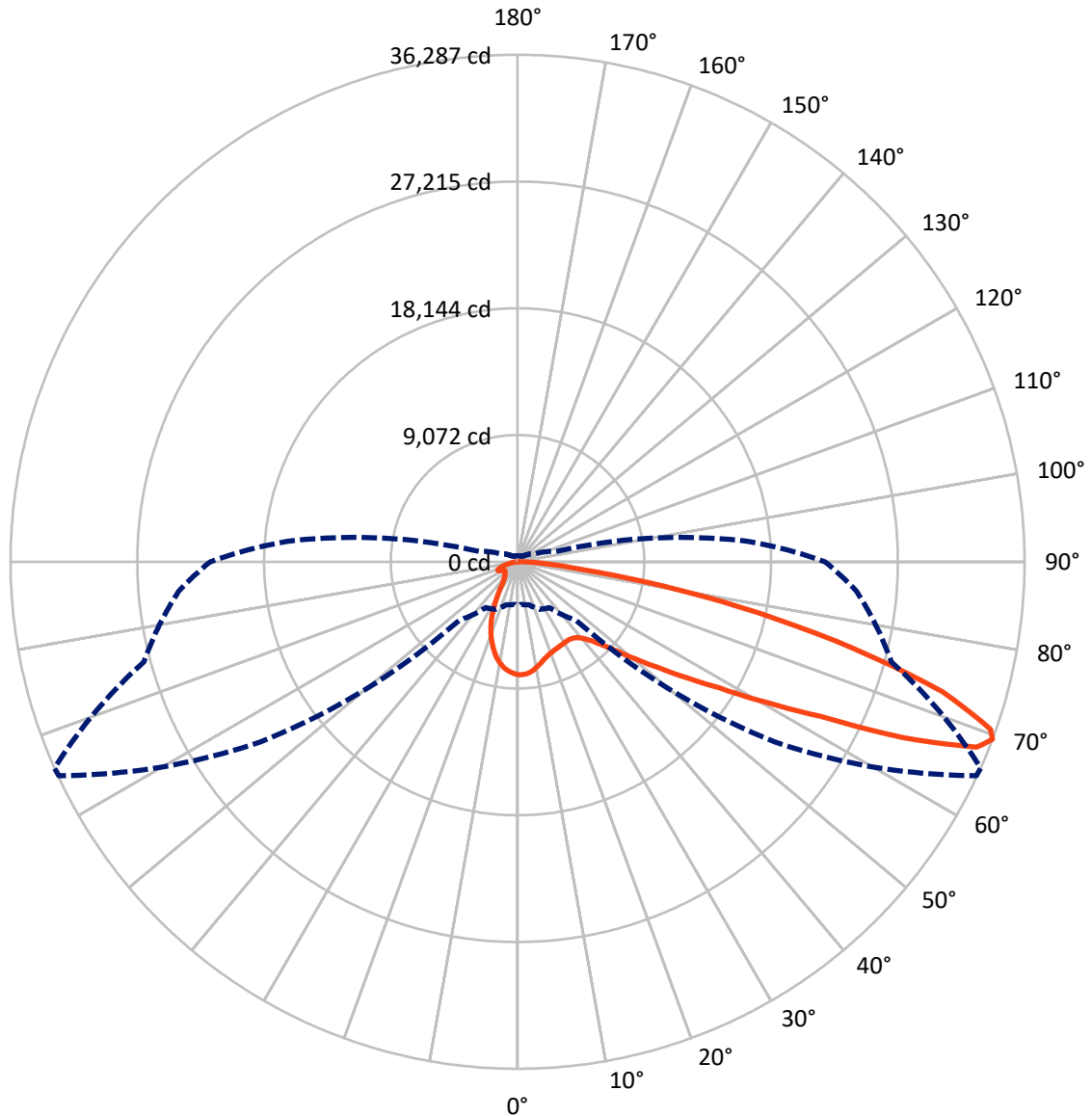
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6581.7	0.0	6581.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28415.7	0.0	28415.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	34997.4	0.0	34997.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.8	2.0
10°-20°	1664.7	4.8
20°-30°	2266.2	6.5
30°-40°	3045.3	8.7
40°-50°	4547.2	13.0
50°-60°	7233.0	20.7
60°-70°	8896.2	25.4
70°-80°	5788.3	16.5
80°-90°	854.8	2.4
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°	34997.4	100.0
0°-180°	34997.4	100.0

Coefficient of Utilization

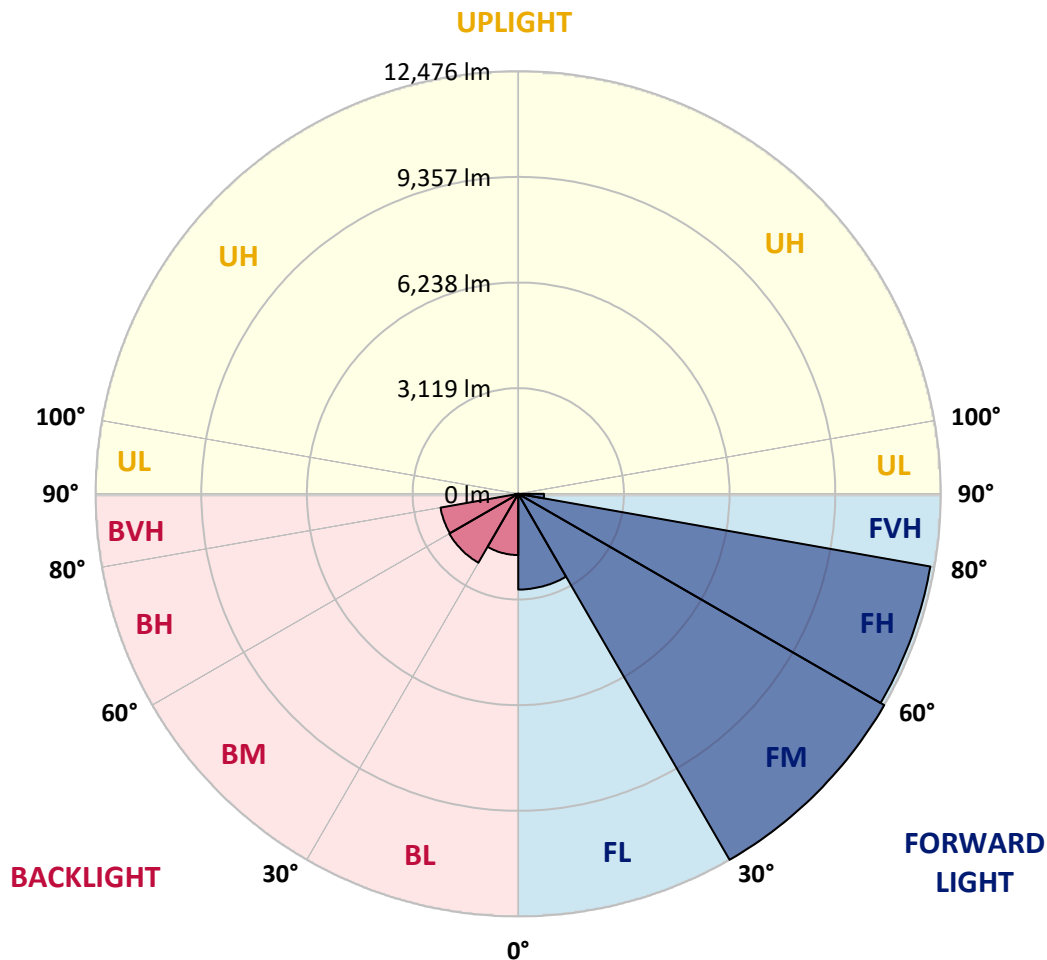


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.0	8.1			
FM (30°-60°)	12475.5	35.6			
FH (60°-80°)	12354.3	35.3			G5
FVH (80°-90°)	759.9	2.2			G5
BL (0°-30°)	1806.7	5.2	B3/2500		
BM (30°-60°)	2350.0	6.7	B2/2500		
BH (60°-80°)	2330.2	6.7	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8
2.5°	7798.9	7829.9	7864.8	7903.5	7977.2	8017.9	8046.9	8079.9	8083.8	8101.3	8087.6
5°	7223.3	7260.1	7312.4	7386.1	7496.6	7669.1	7847.4	7992.7	8010.2	8091.6	8114.8
7.5°	6742.6	6764.0	6806.6	6924.8	7081.8	7273.6	7533.4	7827.9	7870.6	8064.4	8132.2
10°	6351.1	6372.4	6422.9	6544.9	6700.0	6940.4	7225.2	7612.8	7647.7	7981.1	8136.2
12.5°	6058.5	6077.9	6132.2	6252.3	6430.6	6655.4	6969.4	7380.3	7430.7	7870.6	8099.3
15°	5835.6	5872.5	5917.0	6015.8	6203.9	6421.0	6725.2	7167.1	7207.8	7754.4	8074.1
17.5°	5740.7	5758.1	5789.1	5880.2	6017.8	6231.0	6537.2	7000.4	7048.8	7672.9	8068.3
20°	5744.5	5761.9	5767.7	5818.2	5917.0	6101.1	6403.5	6868.6	6926.7	7601.2	8078.0
22.5°	5876.3	5878.3	5856.9	5839.5	5878.3	6031.4	6308.5	6769.8	6837.6	7570.2	8085.7
25°	6079.8	6114.7	6083.7	6002.3	5930.6	6004.2	6271.7	6715.5	6779.5	7525.6	8076.0
27.5°	6409.3	6415.1	6389.9	6279.4	6093.4	6039.1	6256.2	6674.8	6729.1	7492.7	8027.6
30°	6851.2	6833.7	6810.5	6688.4	6395.7	6172.9	6289.2	6638.0	6694.2	7444.2	7969.5
32.5°	7298.9	7353.1	7331.8	7188.4	6808.6	6432.6	6395.7	6634.1	6680.7	7407.4	7905.5
35°	7773.7	7798.9	7899.7	7826.0	7436.5	6853.1	6595.4	6694.2	6731.0	7409.4	7860.9
37.5°	8145.8	8213.6	8450.1	8514.0	8147.8	7409.4	6919.0	6864.7	6880.2	7504.3	7878.4
40°	8595.4	8711.8	9016.0	9277.7	9037.4	8132.2	7469.4	7180.6	7200.1	7733.0	7992.7
42.5°	9165.3	9246.6	9655.6	10010.3	9971.5	9087.8	8136.2	7698.1	7707.8	8188.5	8312.5
45°	9832.0	9948.3	10407.5	10940.6	11031.6	10169.2	9099.4	8481.1	8475.3	8895.8	8909.5
47.5°	10684.7	10756.5	11211.9	11793.3	12161.5	11527.8	10268.0	9605.2	9543.2	9926.9	9816.5
50°	11469.6	11582.1	11927.1	12562.8	13479.5	13119.0	11804.9	11062.7	10917.3	11275.9	11089.8
52.5°	11799.1	11917.4	12208.0	12996.9	14609.3	15177.3	13756.6	12801.1	12558.9	12834.1	12766.2
55°	11227.4	11380.5	11651.8	12611.2	15105.5	17551.4	16388.6	14810.9	14634.6	14516.3	14535.8
57.5°	9690.5	9835.8	10202.2	11260.3	14512.5	19274.4	20146.5	17394.4	17016.5	16471.9	16564.9
60°	7376.4	7467.5	7657.4	8830.0	12754.6	19722.0	24414.2	20660.1	20419.8	18419.7	18485.6
62.5°	5238.7	5341.4	5473.2	6058.5	9337.8	18460.4	27755.5	25220.5	24361.9	20437.2	20373.3
65°	4254.1	4184.3	4343.3	4616.6	5479.0	14307.0	28507.5	31550.3	30368.1	23094.4	22206.7
67.5°	3498.3	3424.6	3581.6	4068.1	4166.9	8304.7	25798.0	35659.1	35422.6	25984.0	24069.3
69°	3097.1	3058.3	3195.9	3750.2	4000.2	5897.6	22474.2	36230.8	36287.0	27687.7	24356.0
70°	2790.9	2806.3	2940.1	3589.4	3924.6	4862.7	19208.5	35442.0	35918.8	28538.5	24046.0
72.5°	2054.4	2087.4	2273.4	2973.0	3853.0	4126.2	11430.9	30957.2	31800.3	28588.9	21997.4
75°	1436.1	1420.6	1585.4	2238.5	3639.8	4089.4	6713.5	23941.3	24896.8	24710.8	18483.7
77.5°	940.0	965.1	1097.0	1581.5	3062.2	4058.4	4376.2	16985.5	17605.7	16526.2	10932.8
80°	662.8	660.9	734.5	1079.5	2271.5	3899.5	3583.5	10706.0	10549.1	6494.5	3242.5
82.5°	379.9	407.0	492.2	759.8	1519.4	3432.4	3296.7	5120.4	4674.7	1850.9	1095.1
85°	211.3	220.9	292.7	459.4	887.7	2585.4	2878.1	2329.6	2197.8	773.3	471.0
87.5°	67.9	73.7	122.1	232.5	403.1	1221.0	1629.9	1075.6	992.3	279.1	189.9
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°	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8	8081.8
2.5°	8093.5	8116.7	8054.8	7994.6	7940.4	7864.8	7797.0	7740.7	7702.0	7696.2	7676.8
5°	8120.6	8122.5	8004.3	7845.4	7690.4	7519.8	7343.4	7217.5	7099.2	7033.4	7000.4
7.5°	8140.0	8122.5	7909.4	7651.6	7353.1	7043.0	6733.0	6484.9	6293.0	6217.4	6246.5
10°	8132.2	8078.0	7766.0	7353.1	6919.0	6455.8	6010.0	5661.2	5341.4	5176.7	5180.6
12.5°	8089.6	8000.4	7552.8	7017.8	6380.2	5760.0	5077.8	4606.8	4236.7	4017.7	3949.8
15°	8052.8	7897.7	7302.7	6562.4	5769.7	4884.0	4052.5	3471.1	3161.1	2988.6	2986.6
17.5°	8014.1	7798.9	7029.5	6079.8	5068.1	3928.6	3056.4	2612.6	2467.2	2484.7	2455.6
20°	7973.4	7682.6	6744.6	5542.9	4213.4	2930.4	2288.9	2108.6	2149.3	2228.8	2240.4
22.5°	7926.8	7558.6	6438.4	4951.8	3314.1	2205.5	1856.7	1829.6	1934.2	2058.3	2075.7
25°	7855.1	7403.5	6052.7	4333.6	2556.4	1777.2	1626.1	1645.4	1748.2	1852.8	1864.4
27.5°	7754.4	7211.7	5663.1	3562.2	1920.7	1525.3	1486.6	1511.7	1562.1	1626.1	1641.5
30°	7618.6	6994.6	5215.5	2895.5	1538.9	1399.3	1383.8	1397.4	1426.4	1453.6	1461.3
32.5°	7483.0	6785.3	4763.8	2217.2	1372.2	1316.0	1300.4	1300.4	1300.4	1304.3	1306.2
35°	7357.0	6587.6	4279.3	1726.8	1285.0	1250.1	1228.8	1205.5	1201.6	1188.1	1188.1
37.5°	7287.3	6407.3	3763.8	1445.8	1221.0	1195.8	1166.7	1127.9	1106.7	1108.6	1104.7
40°	7300.8	6289.2	3294.8	1286.9	1168.7	1141.6	1097.0	1052.4	1038.8	1038.8	1034.9
42.5°	7454.0	6250.4	2845.1	1203.6	1118.3	1087.2	1031.1	990.4	982.6	980.7	984.6
45°	7806.7	6345.3	2442.0	1149.3	1075.6	1029.1	973.0	936.1	928.4	928.4	926.4
47.5°	8494.7	6653.5	2153.2	1114.4	1044.6	984.6	926.4	889.6	876.0	872.1	872.1
50°	9564.5	7322.2	1938.1	1083.4	1005.8	943.9	883.8	841.2	819.8	817.9	815.9
52.5°	11051.0	8364.8	1854.7	1060.2	963.2	901.2	835.3	794.7	767.5	761.7	757.8
55°	12789.5	9820.4	1969.1	1042.7	918.6	852.8	784.9	742.3	717.1	705.4	703.5
57.5°	14803.2	11568.5	2403.2	1019.5	877.9	800.5	734.5	691.9	664.7	651.2	647.3
60°	16611.4	13365.1	3161.1	1005.8	843.1	744.2	676.4	637.6	612.4	598.9	596.9
62.5°	18598.0	15078.4	4066.2	1042.7	827.5	690.0	622.1	587.3	565.9	552.4	552.4
65°	20720.2	16793.6	4665.0	1166.7	850.8	647.3	564.0	534.9	515.5	505.9	503.9
67.5°	22150.5	17386.7	3843.3	1294.6	909.0	600.8	507.8	484.5	472.9	463.2	463.2
69°	21995.4	16636.7	2835.4	1327.6	926.4	577.5	476.8	459.4	443.8	439.9	436.1
70°	21505.1	15782.0	2376.1	1306.2	912.8	556.2	457.4	436.1	422.5	418.6	416.7
72.5°	19154.2	13686.9	1769.5	1135.7	777.2	482.6	405.0	385.7	374.1	368.3	368.3
75°	15913.7	11186.7	1381.8	903.1	608.5	407.0	346.9	331.4	321.7	317.8	315.9
77.5°	8919.1	6246.5	992.3	707.4	461.3	329.5	290.7	277.1	267.4	263.6	263.6
80°	2484.7	1785.0	583.4	467.1	313.9	250.0	230.6	220.9	207.4	197.7	203.5
82.5°	936.1	773.3	333.4	281.1	199.7	166.7	160.9	153.1	147.3	133.7	133.7
85°	455.5	376.0	213.2	149.2	110.5	87.2	83.3	79.5	75.6	65.9	67.9
87.5°	157.0	166.7	93.0	54.2	33.0	21.3	17.4	9.7	9.7	9.7	9.7
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)