

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: P455301

Luminaire Tested: **GALN-SA6C-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455301  
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-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 34802 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

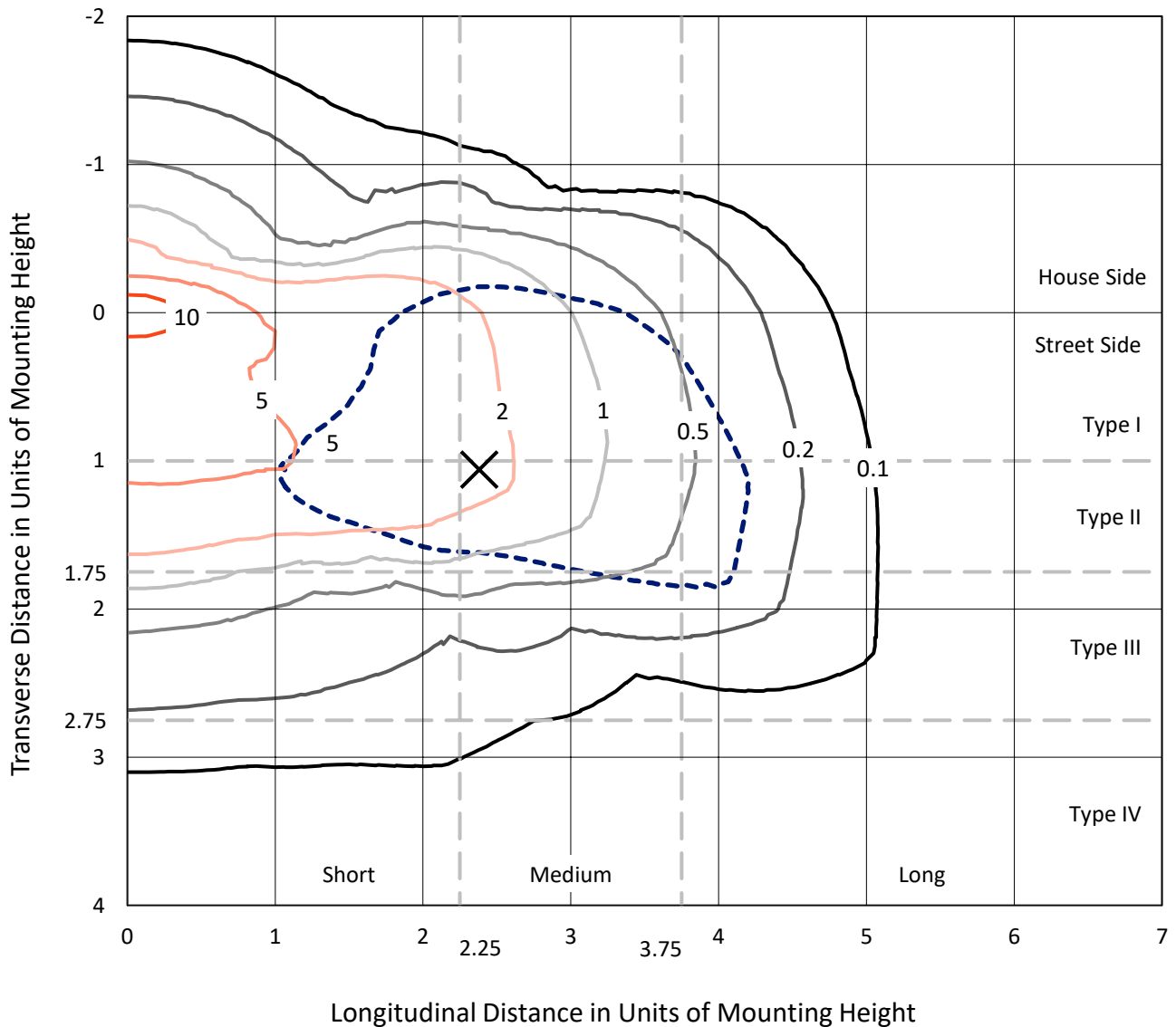
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P455301  
 CATALOG NUMBER: GALN-SA6C-727-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

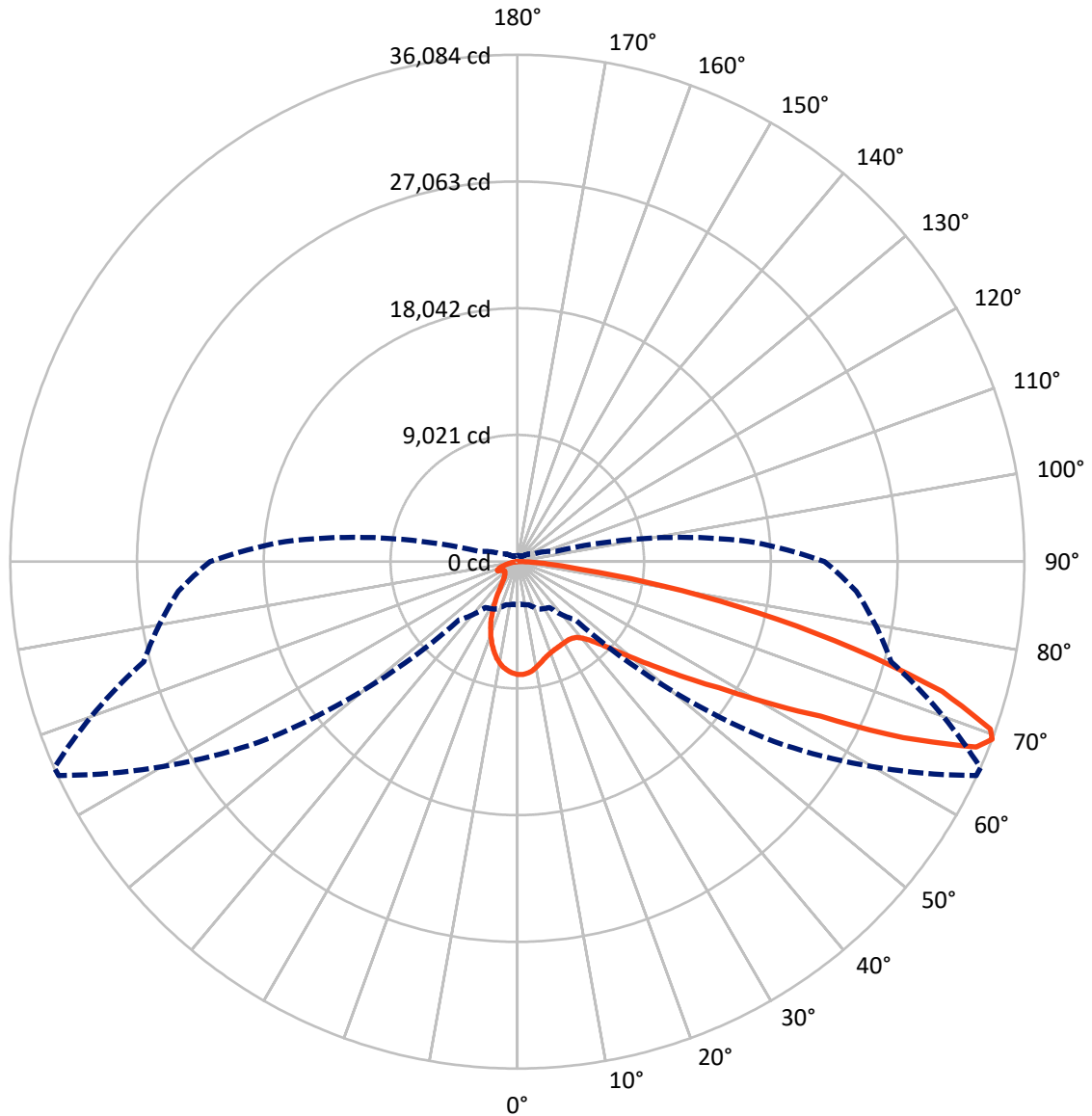
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P455301  
CATALOG NUMBER: GALN-SA6C-727-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P455301

CATALOG NUMBER: GALN-SA6C-727-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6544.9	0.0	6544.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	28257.1	0.0	28257.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	34802.0	0.0	34802.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	697.9	2.0
10°-20°	1655.4	4.8
20°-30°	2253.6	6.5
30°-40°	3028.3	8.7
40°-50°	4521.8	13.0
50°-60°	7192.6	20.7
60°-70°	8846.5	25.4
70°-80°	5756.0	16.5
80°-90°	850.0	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°	34802.0	100.0
0°-180°	34802.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455301

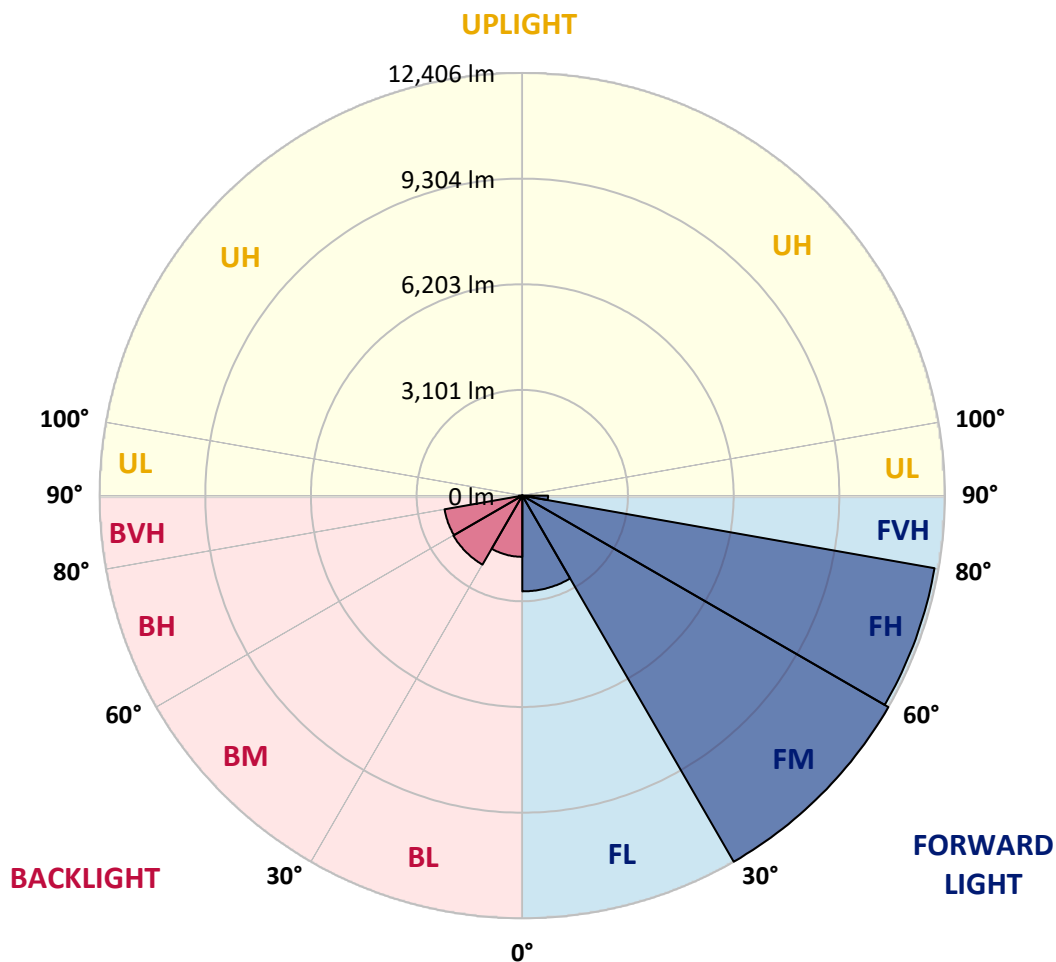
CATALOG NUMBER: GALN-SA6C-727-U-SL2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2810.2	8.1			
FM	(30°-60°)	12405.9	35.6			
FH	(60°-80°)	12285.3	35.3			G5
FVH	(80°-90°)	755.7	2.2			G5
BL	(0°-30°)	1796.6	5.2	B3/2500		
BM	(30°-60°)	2336.8	6.7	B2/2500		
BH	(60°-80°)	2317.2	6.7	B3/2500		G3/2500
BVH	(80°-90°)	94.3	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





REPORT NUMBER: P455301

CATALOG NUMBER: GALN-SA6C-727-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7
2.5°	7755.4	7786.2	7820.9	7859.4	7932.7	7973.1	8002.1	8034.8	8038.7	8056.0	8042.5
5°	7183.0	7219.6	7271.6	7344.9	7454.7	7626.2	7803.5	7948.1	7965.4	8046.4	8069.5
7.5°	6705.0	6726.2	6768.6	6886.2	7042.3	7233.1	7491.3	7784.3	7826.7	8019.4	8086.9
10°	6315.7	6336.9	6387.0	6508.4	6662.6	6901.6	7184.9	7570.3	7605.0	7936.5	8090.7
12.5°	6024.7	6043.9	6097.9	6217.4	6394.7	6618.3	6930.5	7339.1	7389.2	7826.7	8054.1
15°	5803.0	5839.7	5884.0	5982.3	6169.2	6385.1	6687.7	7127.1	7167.5	7711.0	8029.0
17.5°	5708.6	5725.9	5756.8	5847.4	5984.2	6196.2	6500.7	6961.3	7009.5	7630.1	8023.3
20°	5712.5	5729.8	5735.6	5785.7	5884.0	6067.1	6367.7	6830.3	6888.1	7558.8	8032.9
22.5°	5843.5	5845.4	5824.2	5806.9	5845.4	5997.7	6273.3	6732.0	6799.4	7527.9	8040.6
25°	6045.9	6080.6	6049.7	5968.8	5897.5	5970.7	6236.7	6678.0	6741.6	7483.6	8031.0
27.5°	6373.5	6379.3	6354.2	6244.4	6059.4	6005.4	6221.3	6637.5	6691.5	7450.9	7982.8
30°	6812.9	6795.6	6772.5	6651.0	6360.0	6138.4	6254.0	6600.9	6656.8	7402.7	7925.0
32.5°	7258.1	7312.1	7290.9	7148.3	6770.5	6396.6	6360.0	6597.1	6643.3	7366.1	7861.4
35°	7730.3	7755.4	7855.6	7782.3	7395.0	6814.9	6558.5	6656.8	6693.4	7368.0	7817.0
37.5°	8100.3	8167.8	8402.9	8466.5	8102.3	7368.0	6880.4	6826.4	6841.8	7462.4	7834.4
40°	8547.5	8663.1	8965.7	9225.9	8986.9	8086.9	7427.7	7140.6	7159.8	7689.8	7948.1
42.5°	9114.1	9195.0	9601.7	9954.4	9915.8	9037.0	8090.7	7655.1	7664.8	8142.7	8266.1
45°	9777.1	9892.7	10349.5	10879.5	10970.1	10112.4	9048.6	8433.8	8428.0	8846.2	8859.7
47.5°	10625.1	10696.4	11149.3	11727.5	12093.7	11463.4	10210.7	9551.6	9489.9	9871.5	9761.7
50°	11405.6	11517.4	11860.5	12492.6	13404.2	13045.7	11739.0	11000.9	10856.4	11212.9	11027.9
52.5°	11733.3	11850.8	12139.9	12924.3	14527.8	15092.5	13679.8	12729.7	12488.8	12762.4	12695.0
55°	11164.7	11317.0	11586.8	12540.8	15021.2	17453.4	16297.1	14728.3	14552.9	14435.3	14454.6
57.5°	9636.4	9780.9	10145.2	11197.5	14431.5	19166.8	20034.1	17297.3	16921.5	16379.9	16472.4
60°	7335.2	7425.8	7614.7	8780.7	12683.4	19612.0	24277.9	20544.8	20305.8	18316.8	18382.4
62.5°	5209.4	5311.6	5442.6	6024.7	9285.6	18357.3	27600.5	25079.7	24225.9	20323.1	20259.5
65°	4230.4	4161.0	4319.0	4590.8	5448.4	14227.2	28348.3	31374.2	30198.5	22965.4	22082.8
67.5°	3478.7	3405.5	3561.6	4045.4	4143.6	8258.4	25654.0	35460.0	35224.9	25839.0	23934.9
69°	3079.8	3041.2	3178.1	3729.3	3977.9	5864.7	22348.7	36028.5	36084.4	27533.1	24220.1
70°	2775.3	2790.7	2923.7	3569.3	3902.7	4835.5	19101.3	35244.1	35718.2	28379.2	23911.7
72.5°	2042.9	2075.7	2260.7	2956.4	3831.4	4103.2	11367.1	30784.4	31622.8	28429.3	21874.6
75°	1428.1	1412.7	1576.5	2226.0	3619.4	4066.6	6676.1	23807.7	24757.8	24572.8	18380.4
77.5°	934.7	959.8	1090.8	1572.7	3045.1	4035.7	4351.8	16890.7	17507.4	16433.9	10871.8
80°	659.1	657.2	730.4	1073.5	2258.8	3877.7	3563.5	10646.3	10490.2	6458.3	3224.3
82.5°	377.7	404.7	489.5	755.5	1511.0	3413.2	3278.3	5091.9	4648.6	1840.6	1088.9
85°	210.1	219.7	291.0	456.8	882.7	2571.0	2862.0	2316.6	2185.5	769.0	468.3
87.5°	67.5	73.2	121.4	231.3	400.9	1214.2	1620.8	1069.6	986.8	277.5	188.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455301  
 CATALOG NUMBER: GALN-SA6C-727-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7	8036.7
2.5°	8048.3	8071.4	8009.8	7950.0	7896.1	7820.9	7753.4	7697.5	7659.0	7653.2	7633.9
5°	8075.3	8077.2	7959.7	7801.6	7647.4	7477.8	7302.5	7177.2	7059.6	6994.1	6961.3
7.5°	8094.6	8077.2	7865.2	7608.9	7312.1	7003.7	6695.4	6448.7	6257.9	6182.7	6211.6
10°	8086.9	8032.9	7722.6	7312.1	6880.4	6419.8	5976.5	5629.6	5311.6	5147.8	5151.6
12.5°	8044.5	7955.8	7510.6	6978.7	6344.6	5727.9	5049.5	4581.1	4213.0	3995.2	3927.8
15°	8007.8	7853.7	7262.0	6525.8	5737.5	4856.7	4029.9	3451.8	3143.4	2971.9	2969.9
17.5°	7969.3	7755.4	6990.2	6045.9	5039.8	3906.6	3039.3	2598.0	2453.4	2470.8	2441.9
20°	7928.8	7639.7	6706.9	5512.0	4189.9	2914.0	2276.1	2096.9	2137.4	2216.4	2227.9
22.5°	7882.6	7516.4	6402.4	4924.2	3295.6	2193.2	1846.3	1819.4	1923.4	2046.8	2064.1
25°	7811.3	7362.2	6018.9	4309.4	2542.1	1767.3	1617.0	1636.3	1738.4	1842.5	1854.0
27.5°	7711.0	7171.4	5631.5	3542.3	1909.9	1516.8	1478.2	1503.3	1553.4	1617.0	1632.4
30°	7576.1	6955.5	5186.3	2879.4	1530.3	1391.5	1376.1	1389.6	1418.5	1445.5	1453.2
32.5°	7441.2	6747.4	4737.2	2204.8	1364.5	1308.6	1293.2	1293.2	1293.2	1297.1	1299.0
35°	7315.9	6550.8	4255.4	1717.2	1277.8	1243.1	1221.9	1198.8	1194.9	1181.4	1181.4
37.5°	7246.6	6371.6	3742.8	1437.7	1214.2	1189.1	1160.2	1121.7	1100.5	1102.4	1098.5
40°	7260.1	6254.0	3276.4	1279.7	1162.1	1135.2	1090.8	1046.5	1033.0	1033.0	1029.2
42.5°	7412.3	6215.5	2829.2	1196.8	1112.0	1081.2	1025.3	984.8	977.1	975.2	979.1
45°	7763.1	6309.9	2428.4	1142.9	1069.6	1023.4	967.5	930.9	923.2	923.2	921.2
47.5°	8447.3	6616.3	2141.2	1108.2	1038.8	979.1	921.2	884.6	871.1	867.3	867.3
50°	9511.1	7281.3	1927.3	1077.3	1000.3	938.6	878.8	836.4	815.2	813.3	811.4
52.5°	10989.3	8318.1	1844.4	1054.2	957.9	896.2	830.7	790.2	763.2	757.4	753.6
55°	12718.1	9765.5	1958.1	1036.9	913.5	848.0	780.5	738.1	713.1	701.5	699.6
57.5°	14720.5	11503.9	2389.8	1013.7	873.1	796.0	730.4	688.0	661.1	647.6	643.7
60°	16518.7	13290.5	3143.4	1000.3	838.4	740.1	672.6	634.1	609.0	595.5	593.6
62.5°	18494.2	14994.2	4043.4	1036.9	822.9	686.1	618.7	584.0	562.8	549.3	549.3
65°	20604.5	16699.9	4639.0	1160.2	846.1	643.7	560.8	531.9	512.7	503.0	501.1
67.5°	22026.9	17289.6	3821.8	1287.4	903.9	597.5	504.9	481.8	470.3	460.6	460.6
69°	21872.7	16543.8	2819.6	1320.2	921.2	574.3	474.1	456.8	441.3	437.5	433.6
70°	21385.1	15693.8	2362.8	1299.0	907.7	553.1	454.8	433.6	420.1	416.3	414.4
72.5°	19047.3	13610.4	1759.6	1129.4	772.8	479.9	402.8	383.5	372.0	366.2	366.2
75°	15824.9	11124.2	1374.1	898.1	605.2	404.7	345.0	329.6	319.9	316.1	314.1
77.5°	8869.3	6211.6	986.8	703.5	458.7	327.6	289.1	275.6	266.0	262.1	262.1
80°	2470.8	1775.0	580.1	464.5	312.2	248.6	229.3	219.7	206.2	196.6	202.4
82.5°	930.9	769.0	331.5	279.5	198.5	165.7	160.0	152.3	146.5	133.0	133.0
85°	452.9	373.9	212.0	148.4	109.9	86.7	82.9	79.0	75.2	65.5	67.5
87.5°	156.1	165.7	92.5	54.0	32.8	21.2	17.3	9.6	9.6	9.6	9.6
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)