

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: P456726

Luminaire Tested: **GALN-SA8A-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32919 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

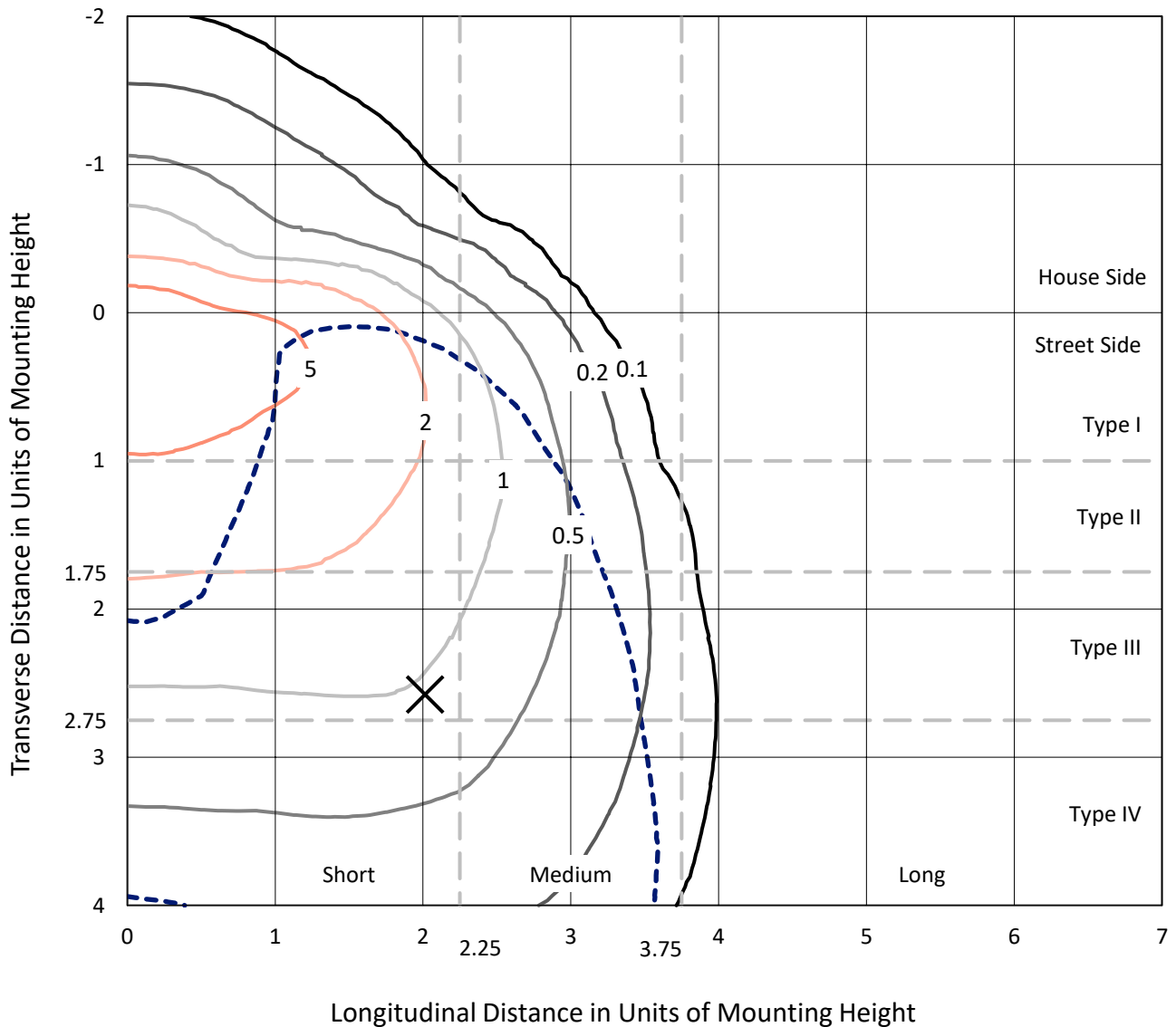
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456726  
 CATALOG NUMBER: GALN-SA8A-730-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

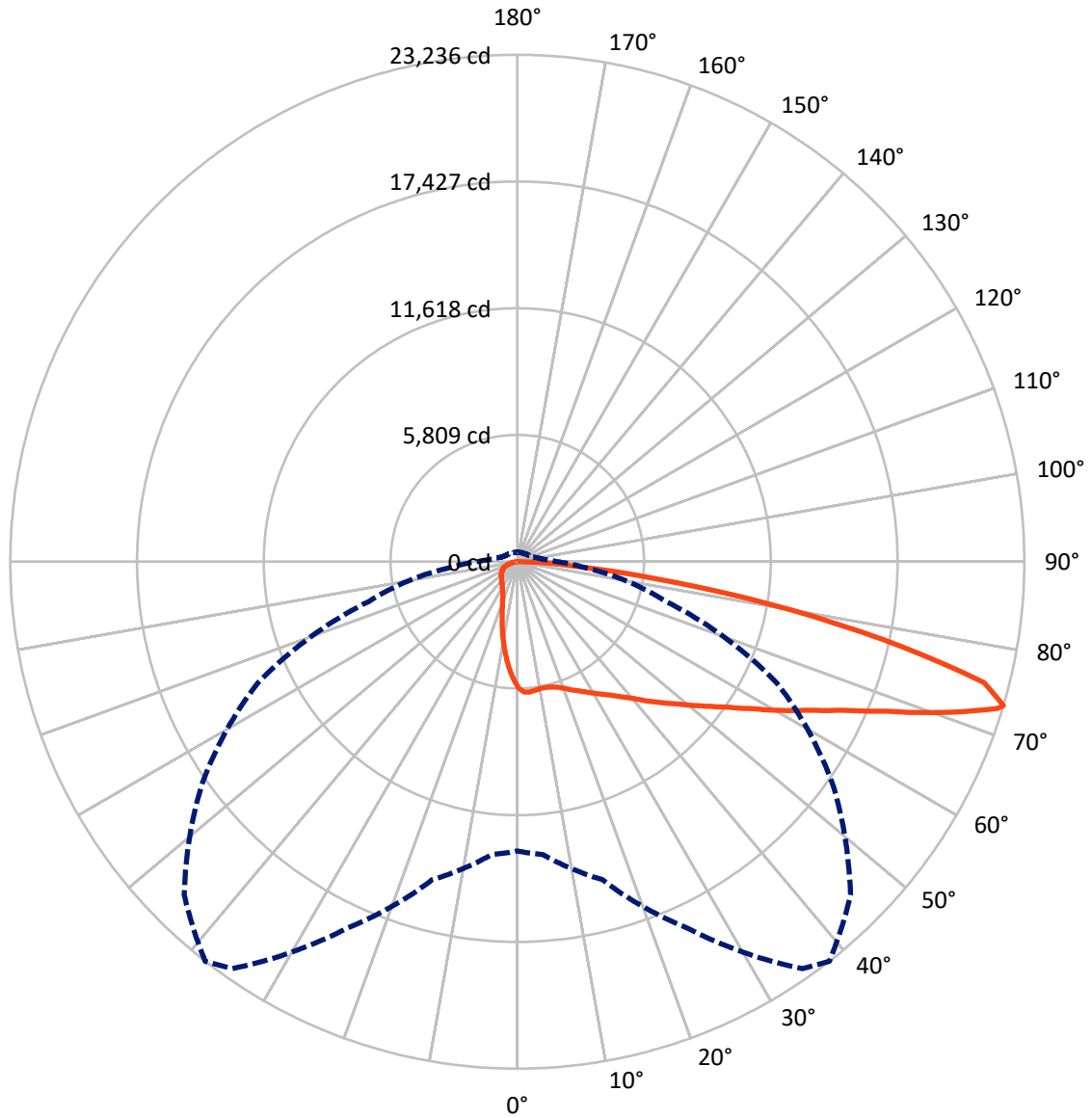
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P456726  
CATALOG NUMBER: GALN-SA8A-730-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P456726

CATALOG NUMBER: GALN-SA8A-730-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4425.3	0.0	4425.3
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28493.7	0.0	28493.7
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	32919.0	0.0	32919.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.8	1.5
10°-20°	1294.5	3.9
20°-30°	2015.8	6.1
30°-40°	2956.7	9.0
40°-50°	4386.0	13.3
50°-60°	6214.1	18.9
60°-70°	7882.7	23.9
70°-80°	6561.8	19.9
80°-90°	1102.5	3.3
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°	32919.0	100.0
0°-180°	32919.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456726

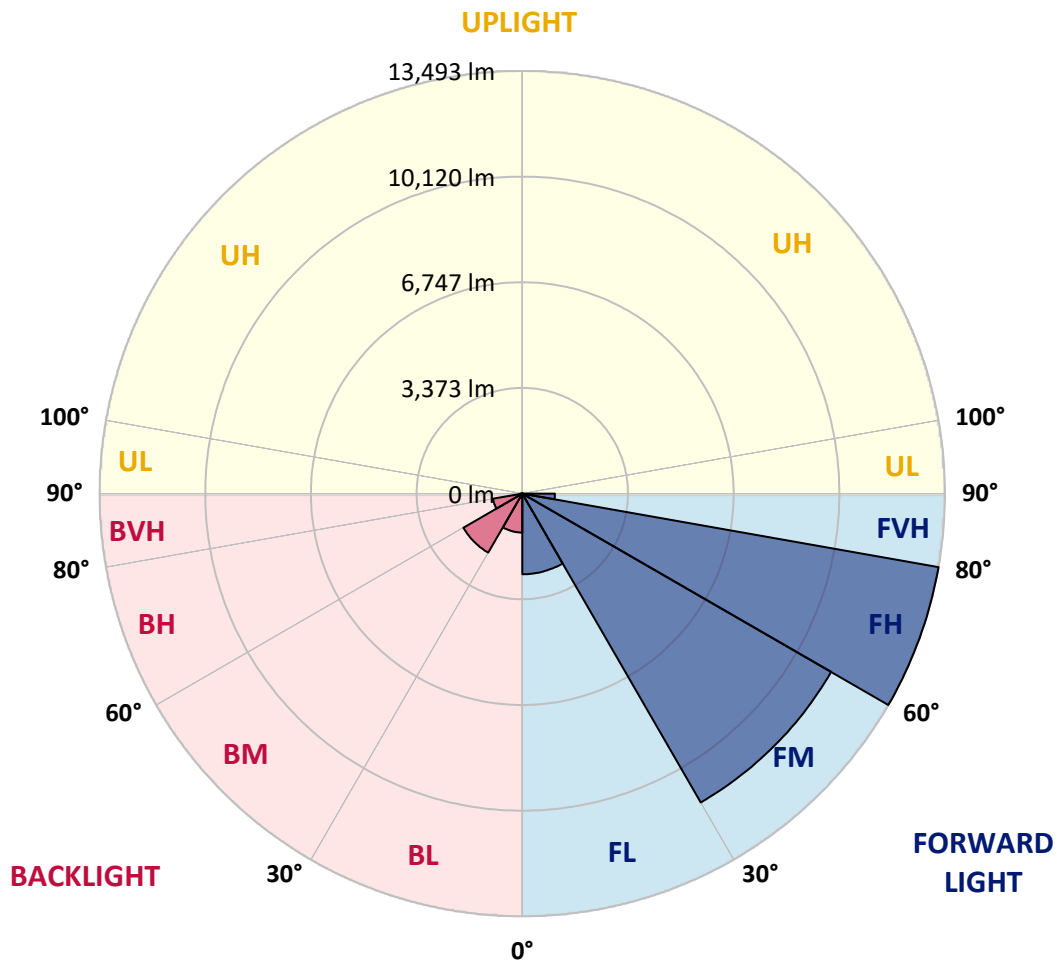
CATALOG NUMBER: GALN-SA8A-730-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.4	7.8			
FM (30°-60°)	11384.3	34.6			
FH (60°-80°)	13493.4	41.0			G5
FVH (80°-90°)	1042.7	3.2			G5
BL (0°-30°)	1241.8	3.8	B3/2500		
BM (30°-60°)	2172.5	6.6	B2/2500		
BH (60°-80°)	951.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.8	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-G5**

Type IV Short





REPORT NUMBER: P456726

CATALOG NUMBER: GALN-SA8A-730-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3
2.5°	6015.7	6045.4	6030.6	6010.1	5997.1	5984.1	5965.5	5911.6	5868.8	5822.3	5749.8
5°	6060.3	6078.9	6065.9	6039.9	6010.1	5997.1	5961.8	5891.1	5822.3	5744.3	5636.5
7.5°	6034.3	6041.7	6026.8	5995.2	5969.2	5945.0	5904.1	5826.1	5742.4	5647.6	5506.3
10°	5941.3	5969.2	5969.2	5943.2	5917.2	5904.1	5863.2	5788.9	5712.7	5604.8	5437.5
12.5°	5865.1	5894.8	5919.0	5911.6	5909.7	5909.7	5878.1	5822.3	5733.1	5630.9	5432.0
15°	5813.1	5848.4	5900.4	5930.2	5948.8	5954.3	5941.3	5893.0	5801.9	5682.9	5454.3
17.5°	5801.9	5844.7	5939.5	6004.5	6052.9	6051.0	6047.3	5980.4	5880.0	5757.3	5482.2
20°	5852.1	5907.9	6039.9	6142.1	6212.7	6199.7	6179.3	6091.9	5974.8	5837.2	5508.2
22.5°	6002.7	6060.3	6205.3	6316.8	6385.6	6385.6	6324.3	6209.0	6084.5	5930.2	5543.5
25°	6218.3	6281.5	6435.8	6549.2	6580.8	6556.6	6495.3	6355.9	6212.7	6064.0	5617.9
27.5°	6482.3	6558.5	6701.7	6796.5	6787.2	6768.6	6705.4	6526.9	6383.8	6248.1	5744.3
30°	6811.3	6867.1	7015.8	7038.1	7004.7	7000.9	6911.7	6733.3	6599.4	6495.3	5924.6
32.5°	7121.8	7172.0	7290.9	7300.2	7240.8	7248.2	7164.5	7000.9	6924.7	6887.5	6227.6
35°	7450.8	7476.8	7579.1	7567.9	7528.9	7523.3	7489.9	7333.7	7357.9	7424.8	6657.0
37.5°	7726.0	7778.0	7835.6	7844.9	7843.1	7861.7	7884.0	7809.6	7949.0	8159.1	7220.3
40°	7978.8	8023.4	8108.9	8138.6	8211.1	8248.3	8324.5	8326.4	8648.0	8993.8	7913.7
42.5°	8149.8	8226.0	8385.9	8439.8	8616.4	8727.9	8841.3	8962.2	9428.8	9873.1	8731.7
45°	8298.5	8398.9	8664.7	8832.1	9071.9	9207.6	9447.4	9700.2	10371.3	10953.2	9562.6
47.5°	8523.5	8612.7	8917.6	9213.1	9575.6	9731.8	10090.6	10468.0	11345.4	11983.0	10358.3
50°	8835.8	8889.7	9200.1	9681.6	10144.5	10345.3	10819.3	11364.0	12386.4	12999.9	11057.3
52.5°	9235.5	9257.8	9505.0	10146.4	10756.1	11005.2	11633.5	12269.3	13297.3	13882.9	11611.2
55°	9707.6	9670.5	9863.8	10639.0	11455.1	11780.4	12455.2	13185.8	14321.6	14596.8	12014.6
57.5°	10174.2	10116.6	10270.9	11237.6	12317.7	12709.9	13496.2	14130.2	15236.3	15264.1	12297.2
60°	10668.7	10626.0	10810.0	11940.3	13375.4	13840.2	14567.0	15109.9	16121.1	15728.9	12341.8
62.5°	11176.2	11107.5	11369.6	12730.3	14567.0	14989.0	15693.6	16150.9	16989.3	15901.8	11912.4
65°	11668.9	11637.3	12042.5	13669.1	15924.1	16403.7	17087.8	17398.3	17684.5	15641.5	10847.2
67.5°	12193.1	12256.3	12903.2	14922.1	17693.8	18296.2	19034.2	18742.3	17883.5	14409.0	9135.1
70°	12992.5	13033.4	14033.5	16563.6	19974.8	20701.7	21058.6	19220.1	16924.2	12068.5	6867.1
72.5°	13336.4	13516.7	15042.9	18286.9	22566.3	23010.5	21739.0	18154.9	14098.6	8198.1	3608.3
73°	13260.2	13475.8	15089.4	18549.0	22768.9	23235.5	21594.0	17606.5	13105.9	7060.4	3093.4
75°	12310.2	12576.1	14485.2	18329.6	22374.8	22095.9	19262.8	15005.7	8856.2	3210.5	1409.1
77.5°	9713.2	9789.4	11477.4	14801.3	17619.5	17102.7	14416.4	9378.6	3617.6	1193.5	799.4
80°	4872.4	5153.1	6469.3	8478.8	11782.3	11613.1	9099.7	4435.5	1507.6	700.8	529.8
82.5°	2344.2	2543.1	3151.0	4134.4	6510.2	6355.9	4506.2	2424.1	957.4	409.0	312.3
85°	1509.5	1658.2	2005.8	1972.4	2676.9	2556.1	2024.4	1834.8	567.0	213.8	217.5
87.5°	996.4	1091.2	1308.7	1046.6	974.1	881.2	894.2	1033.6	111.5	81.8	29.7
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: P456726  
 CATALOG NUMBER: GALN-SA8A-730-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3	5783.3
2.5°	5720.1	5695.9	5616.0	5537.9	5463.6	5392.9	5346.4	5285.1	5244.2	5255.4	5272.1
5°	5577.0	5523.1	5381.8	5244.2	5114.1	4959.8	4835.2	4734.8	4658.6	4630.7	4625.2
7.5°	5426.4	5335.3	5132.7	4896.6	4675.4	4483.9	4262.7	4153.0	4024.7	3980.1	3965.2
10°	5335.3	5212.6	4928.2	4599.1	4266.4	3948.5	3708.7	3513.5	3336.9	3303.4	3286.7
12.5°	5309.3	5147.5	4764.6	4340.7	3898.3	3507.9	3152.8	2896.3	2725.3	2686.2	2628.6
15°	5294.4	5093.6	4612.1	4080.5	3519.1	3043.2	2669.5	2370.2	2214.1	2110.0	2111.8
17.5°	5281.4	5032.3	4441.1	3796.1	3191.9	2643.5	2230.8	1961.2	1818.1	1762.3	1756.7
20°	5262.8	4959.8	4244.1	3496.8	2818.2	2279.1	1905.5	1704.7	1608.0	1561.5	1559.7
22.5°	5255.4	4889.1	4050.7	3191.9	2487.3	1998.4	1689.8	1548.5	1487.2	1455.6	1455.6
25°	5273.9	4838.9	3848.1	2901.9	2193.6	1758.6	1541.1	1444.4	1409.1	1392.4	1386.8
27.5°	5331.6	4816.6	3647.3	2611.9	1924.1	1595.0	1440.7	1373.8	1347.8	1334.8	1336.6
30°	5441.3	4814.8	3450.3	2325.6	1723.3	1470.5	1360.8	1314.3	1293.9	1286.4	1284.6
32.5°	5617.9	4855.7	3256.9	2089.5	1554.1	1366.4	1286.4	1253.0	1243.7	1238.1	1236.2
35°	5917.2	4970.9	3065.5	1873.9	1424.0	1273.4	1215.8	1199.0	1186.0	1191.6	1193.5
37.5°	6320.6	5169.8	2883.3	1704.7	1325.5	1204.6	1156.3	1141.4	1134.0	1139.6	1145.1
40°	6861.5	5456.1	2730.9	1569.0	1254.8	1147.0	1104.2	1091.2	1083.8	1093.1	1094.9
42.5°	7458.3	5787.0	2604.4	1463.0	1197.2	1098.7	1057.8	1042.9	1037.3	1042.9	1044.8
45°	8071.7	6171.8	2539.4	1386.8	1148.9	1063.3	1020.6	1003.9	990.8	987.1	992.7
47.5°	8675.9	6506.5	2537.5	1340.3	1109.8	1031.7	985.3	966.7	949.9	940.6	938.8
50°	9168.5	6772.3	2582.1	1319.9	1076.4	996.4	949.9	931.4	909.0	890.5	894.2
52.5°	9540.3	6945.2	2602.6	1310.6	1057.8	959.2	912.8	896.0	870.0	845.8	845.8
55°	9780.1	6986.1	2552.4	1301.3	1042.9	920.2	870.0	855.1	829.1	804.9	804.9
57.5°	9861.9	6859.7	2372.1	1279.0	1028.0	886.7	827.2	814.2	793.8	769.6	765.9
60°	9672.3	6432.1	2056.0	1212.1	998.3	851.4	780.8	775.2	767.8	747.3	745.5
62.5°	8941.7	5524.9	1712.1	1124.7	948.1	814.2	738.0	747.3	752.9	741.7	739.9
65°	7726.0	4485.7	1463.0	1003.9	881.2	762.2	691.5	715.7	730.6	730.6	726.9
67.5°	6266.6	3444.7	1232.5	899.7	797.5	691.5	639.5	658.1	669.2	665.5	674.8
70°	4454.1	2333.0	1003.9	780.8	691.5	611.6	572.6	572.6	565.1	561.4	561.4
72.5°	2160.1	1332.9	814.2	652.5	589.3	522.4	490.8	477.8	462.9	461.0	451.7
73°	1805.1	1195.3	777.1	628.3	565.1	509.4	474.0	453.6	444.3	436.9	435.0
75°	1098.7	907.2	648.8	529.8	481.5	438.7	407.1	388.5	379.2	373.7	371.8
77.5°	723.1	676.7	503.8	405.3	368.1	342.1	329.0	310.5	304.9	297.4	297.4
80°	539.1	516.8	360.6	286.3	264.0	241.7	238.0	234.2	219.4	210.1	206.3
82.5°	347.6	368.1	245.4	191.5	167.3	148.7	150.6	156.2	141.3	128.3	124.6
85°	247.2	265.8	148.7	87.4	70.6	61.3	68.8	61.3	63.2	50.2	40.9
87.5°	40.9	70.6	26.0	11.2	5.6	3.7	0.0	0.0	0.0	0.0	0.0
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)