

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: P533093

Luminaire Tested: **GALN-SA8C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30178 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

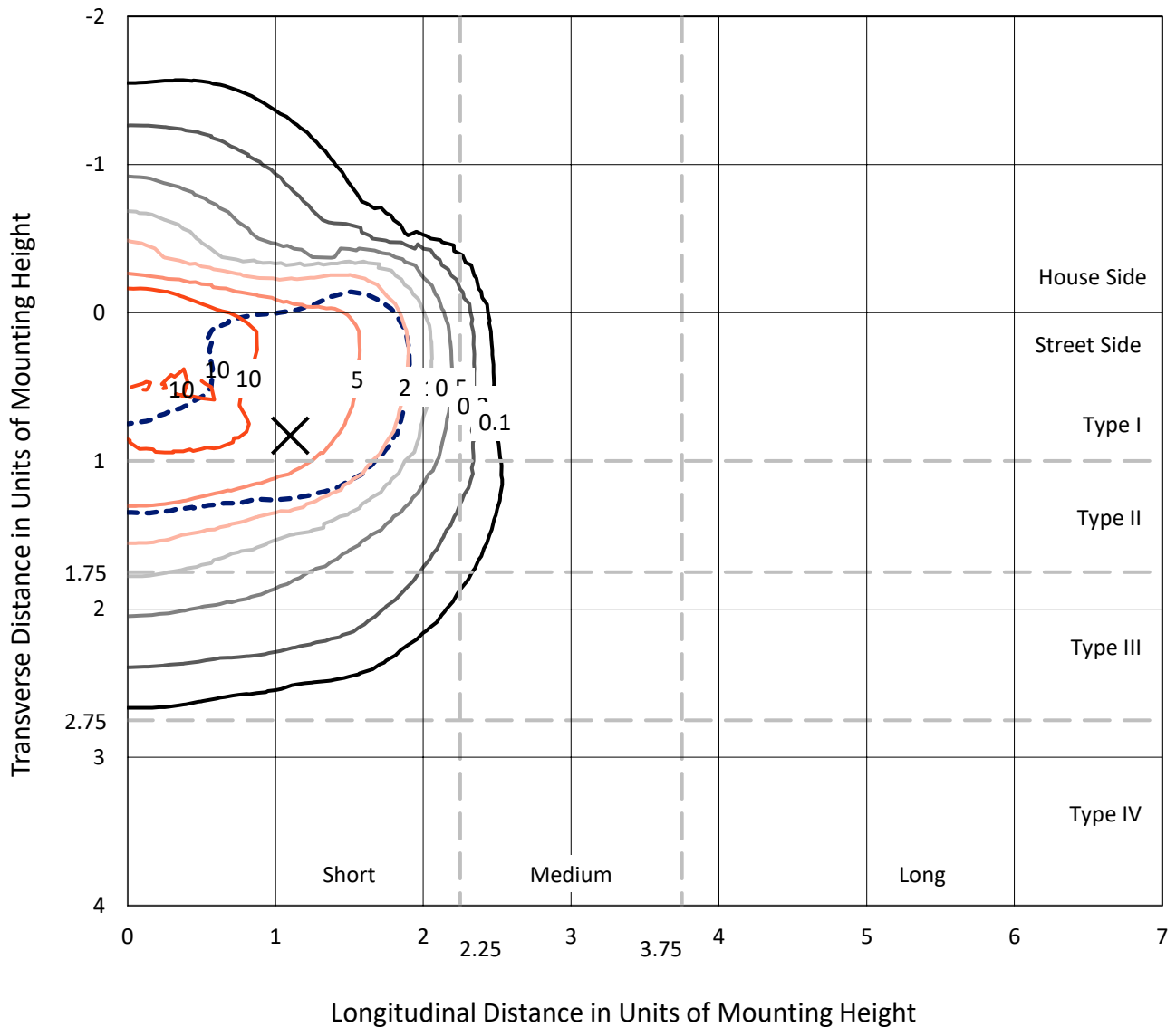
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533093  
 CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

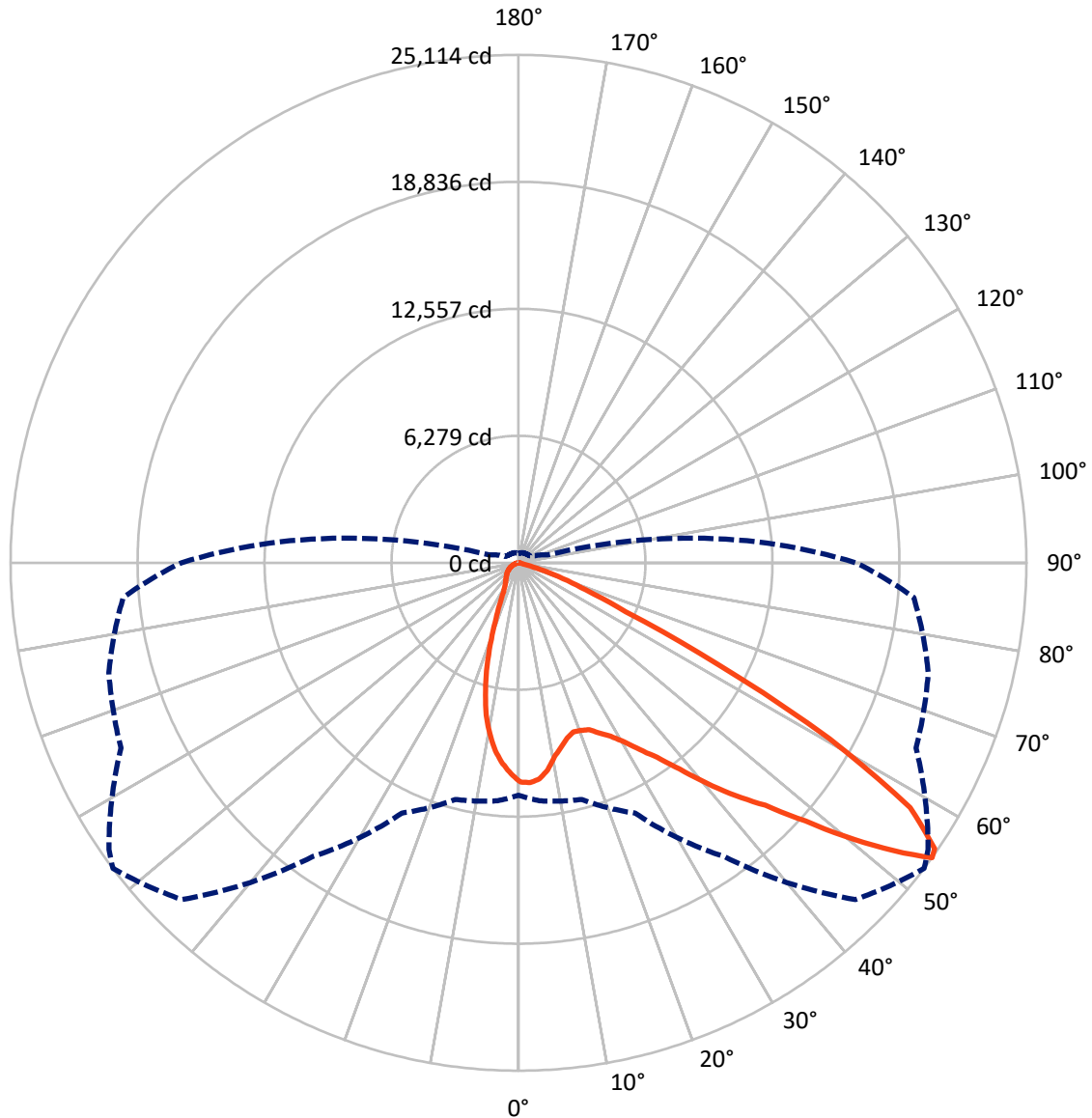
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P533093  
CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P533093  
 CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4993.0	0.0	4993.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	25185.0	0.0	25185.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	30178.0	0.0	30178.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	930.0	3.1
10°-20°	2132.2	7.1
20°-30°	3030.3	10.0
30°-40°	4676.6	15.5
40°-50°	7332.4	24.3
50°-60°	8517.6	28.2
60°-70°	3218.5	10.7
70°-80°	306.1	1.0
80°-90°	34.4	0.1
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°	30178.0	100.0
0°-180°	30178.0	100.0

**Coefficient of Utilization**

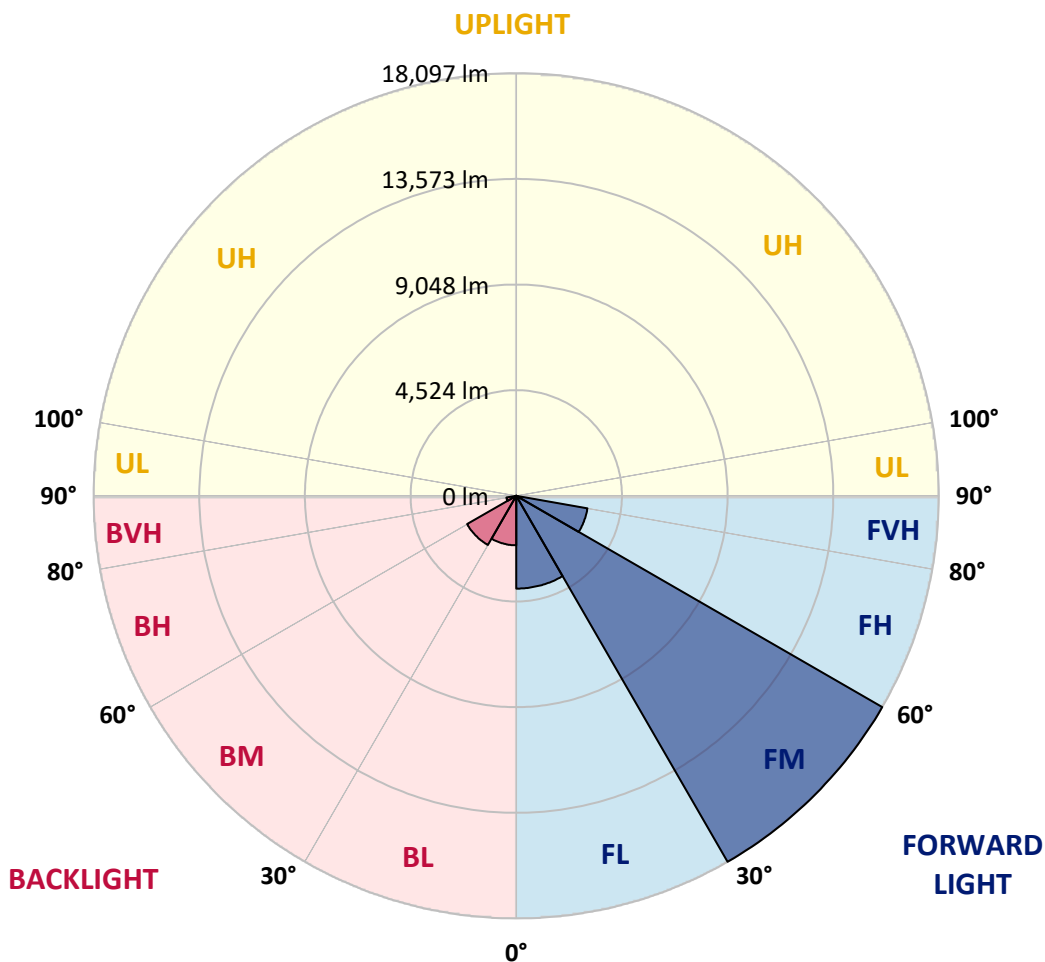


REPORT NUMBER: P533093  
 CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3973.7	13.2			
FM (30°-60°)	18096.8	60.0			
FH (60°-80°)	3096.7	10.3			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	2118.8	7.0	B3/2500		
BM (30°-60°)	2429.7	8.1	B2/2500		
BH (60°-80°)	427.8	1.4	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





REPORT NUMBER: P533093

CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4
2.5°	10783.2	10687.6	10783.2	10794.5	10861.9	10923.8	10884.4	10974.4	10923.8	10867.5	10850.7
5°	9911.8	10041.1	10046.7	10249.1	10204.1	10575.2	10738.2	10693.3	10968.7	10951.9	10912.5
7.5°	9130.3	9079.7	9147.2	9383.3	9681.3	10108.6	10344.7	10339.1	10732.6	11013.7	10985.6
10°	8405.1	8399.4	8540.0	8725.5	8978.5	9428.3	9754.4	9917.4	10530.2	10957.5	11019.3
12.5°	7915.9	7893.4	8045.2	8197.0	8596.2	8944.8	9360.8	9439.5	10142.3	10760.7	10861.9
15°	7595.5	7646.1	7657.3	7949.7	8202.7	8663.7	8989.8	9152.8	9962.4	10603.3	10991.2
17.5°	7539.3	7606.7	7612.3	7854.1	8123.9	8511.9	8798.6	9017.9	9810.6	10682.0	10996.8
20°	7651.7	7612.3	7646.1	7797.9	8062.1	8433.2	8849.2	8922.3	9760.0	10721.4	11058.7
22.5°	7972.2	7960.9	7876.6	8000.3	8185.8	8573.7	8967.3	9079.7	9906.2	10923.8	11109.3
25°	8326.3	8388.2	8309.5	8292.6	8421.9	8804.2	9327.1	9473.3	10395.3	11289.2	11266.7
27.5°	8989.8	8927.9	8927.9	8849.2	8815.5	9001.0	9715.0	9956.8	10940.6	11761.5	11446.6
30°	9625.1	9692.5	9641.9	9670.0	9445.1	9428.3	10266.0	10563.9	11907.6	12481.1	11828.9
32.5°	10631.4	10541.5	10625.8	10552.7	10254.7	9951.1	11013.7	11322.9	13077.0	13307.5	12402.4
35°	11469.1	11429.8	11789.6	11778.3	11294.8	10996.8	11806.4	12267.4	13892.2	14297.0	13077.0
37.5°	12661.0	12587.9	12998.3	13195.1	12762.2	12318.0	12942.1	13476.2	14651.2	15089.7	13768.5
40°	13886.6	14072.1	14623.1	14949.2	14488.2	13897.9	14330.8	14493.8	15157.2	15607.0	14240.8
42.5°	15438.3	15708.2	16270.4	16551.5	16512.1	15871.2	15741.9	15736.3	15522.6	15460.8	14589.4
45°	16928.2	16827.0	17692.8	18305.6	18800.3	18614.8	17102.5	16933.8	16101.7	15680.1	14679.3
47.5°	17580.3	17546.6	18136.9	19227.6	20914.3	21144.8	19081.4	18429.3	17080.0	16602.1	15168.5
50°	16737.0	16911.3	17496.0	18704.8	21290.9	23050.7	21510.2	20633.1	18221.3	17726.5	16326.6
52.5°	13982.2	14100.3	14656.8	16191.7	20009.1	24175.1	23837.7	23331.8	20318.3	19497.5	18344.9
54°	11497.2	11812.1	12115.6	13656.1	17726.5	23551.0	25114.0	24726.0	21684.5	20970.5	19615.5
55°	10013.0	10198.5	10417.8	11952.6	16146.7	22494.1	24967.8	25001.5	22600.9	21431.5	20470.1
57.5°	7314.4	7443.7	7218.8	7899.1	11086.8	18266.2	22837.0	23747.8	23837.7	22123.0	20993.0
60°	5588.4	5644.6	5391.6	5498.4	6892.7	12537.3	17664.7	18761.0	21504.6	19334.4	17782.7
62.5°	4334.6	4345.9	4340.3	4525.8	4750.7	7376.2	11047.4	12020.1	14825.5	13729.2	12076.3
65°	3193.4	3142.8	3232.7	3794.9	4053.5	4638.2	5818.9	6527.3	8056.5	6802.8	4863.1
67.5°	2068.9	2085.8	2175.8	2822.3	3474.5	3558.8	3581.3	3525.1	3530.7	1945.3	1220.0
70°	1242.5	1270.6	1242.5	1596.7	2485.0	2552.4	2333.2	2277.0	1776.6	461.0	455.4
72.5°	736.5	697.1	624.1	685.9	1034.5	1236.9	1113.2	1107.6	697.1	269.9	269.9
75°	309.2	281.1	230.5	208.0	275.5	264.2	264.2	236.1	185.5	179.9	168.7
77.5°	61.8	61.8	45.0	50.6	67.5	78.7	95.6	95.6	112.4	112.4	106.8
80°	0.0	5.6	16.9	33.7	50.6	73.1	84.3	84.3	95.6	95.6	78.7
82.5°	0.0	5.6	16.9	33.7	45.0	67.5	84.3	84.3	95.6	101.2	84.3
85°	0.0	5.6	16.9	28.1	45.0	56.2	56.2	50.6	39.4	33.7	22.5
87.5°	0.0	0.0	5.6	11.2	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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: P533093

CATALOG NUMBER: GALN-SA8C-730-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4	10839.4
2.5°	10890.0	10884.4	10749.5	10530.2	10479.6	10294.1	10271.6	10159.2	10221.0	10013.0	9990.5
5°	10800.1	10732.6	10569.6	10429.0	10018.6	9726.3	9495.7	9214.6	9051.6	9079.7	8972.9
7.5°	10929.4	10755.1	10468.4	9979.2	9478.9	8967.3	8691.8	8118.3	7910.3	7601.1	7556.1
10°	10794.5	10665.1	10221.0	9411.4	8719.9	7983.4	7336.9	6701.6	6218.1	6010.0	5965.1
12.5°	10783.2	10558.3	9816.2	8916.7	7915.9	6859.0	5920.1	5127.4	4649.5	4379.6	4317.8
15°	10608.9	10339.1	9360.8	8152.1	6769.0	5453.4	4430.2	3665.6	3300.2	3142.8	3187.7
17.5°	10625.8	10221.0	8905.4	7342.5	5639.0	4002.9	3024.7	2631.1	2535.6	2574.9	2574.9
20°	10608.9	9956.8	8354.5	6409.2	4317.8	2777.3	2220.7	2080.2	2142.0	2265.7	2237.6
22.5°	10519.0	9833.1	7848.5	5425.3	3176.5	2057.7	1782.2	1787.8	1883.4	2035.2	2068.9
25°	10586.4	9557.6	7207.5	4430.2	2316.3	1641.7	1546.1	1585.4	1686.6	1799.1	1821.6
27.5°	10535.8	9360.8	6538.5	3440.7	1692.3	1411.1	1405.5	1450.5	1495.5	1579.8	1579.8
30°	10592.1	9180.9	5880.7	2558.1	1394.3	1293.1	1270.6	1304.3	1349.3	1366.2	1360.6
32.5°	10800.1	9046.0	5121.7	1911.5	1231.2	1180.6	1180.6	1180.6	1175.0	1197.5	1203.1
35°	11255.5	9068.5	4452.7	1478.6	1124.4	1085.1	1068.2	1045.7	1034.5	1045.7	1051.3
37.5°	11750.2	9057.2	3761.2	1259.4	1045.7	1012.0	972.6	938.9	933.3	944.5	927.6
40°	11969.5	9164.0	3120.3	1130.0	972.6	933.3	871.4	843.3	848.9	860.2	848.9
42.5°	12267.4	9197.8	2704.2	1028.8	905.2	843.3	804.0	770.2	764.6	781.5	775.9
45°	12261.8	9006.6	2265.7	972.6	843.3	775.9	725.3	697.1	697.1	708.4	714.0
47.5°	12621.6	8978.5	1945.3	922.0	798.3	730.9	669.0	646.5	640.9	640.9	629.7
50°	13459.3	9372.1	1697.9	865.8	742.1	680.3	629.7	601.6	579.1	567.8	562.2
52.5°	15095.4	10597.7	1506.7	798.3	680.3	629.7	584.7	562.2	534.1	506.0	500.4
54°	16680.8	11862.7	1495.5	742.1	629.7	595.9	556.6	545.3	511.6	472.3	461.0
55°	17394.8	12599.1	1534.8	697.1	595.9	573.5	539.7	528.5	494.7	449.8	444.1
57.5°	17985.1	12885.9	1512.3	579.1	539.7	534.1	506.0	489.1	449.8	387.9	376.7
60°	14476.9	9743.1	1085.1	511.6	494.7	483.5	461.0	449.8	399.2	331.7	326.1
62.5°	9147.2	5605.2	691.5	449.8	432.9	416.0	387.9	376.7	331.7	264.2	247.4
65°	3896.1	2321.9	466.6	399.2	371.1	342.9	320.5	303.6	264.2	196.8	191.2
67.5°	1012.0	826.5	387.9	348.6	309.2	269.9	253.0	224.9	179.9	134.9	129.3
70°	455.4	416.0	326.1	292.3	247.4	208.0	185.5	157.4	118.1	90.0	84.3
72.5°	269.9	264.2	247.4	219.3	185.5	157.4	134.9	106.8	78.7	50.6	50.6
75°	168.7	163.0	168.7	151.8	129.3	118.1	101.2	73.1	45.0	22.5	22.5
77.5°	101.2	101.2	101.2	95.6	90.0	90.0	73.1	45.0	22.5	5.6	5.6
80°	78.7	78.7	84.3	78.7	78.7	78.7	61.8	33.7	11.2	0.0	0.0
82.5°	78.7	84.3	95.6	90.0	78.7	67.5	56.2	33.7	11.2	0.0	0.0
85°	22.5	16.9	28.1	39.4	56.2	50.6	39.4	28.1	11.2	0.0	0.0
87.5°	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	5.6	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)