

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: P532856

Luminaire Tested: **GALN-SA8B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532856  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37760 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

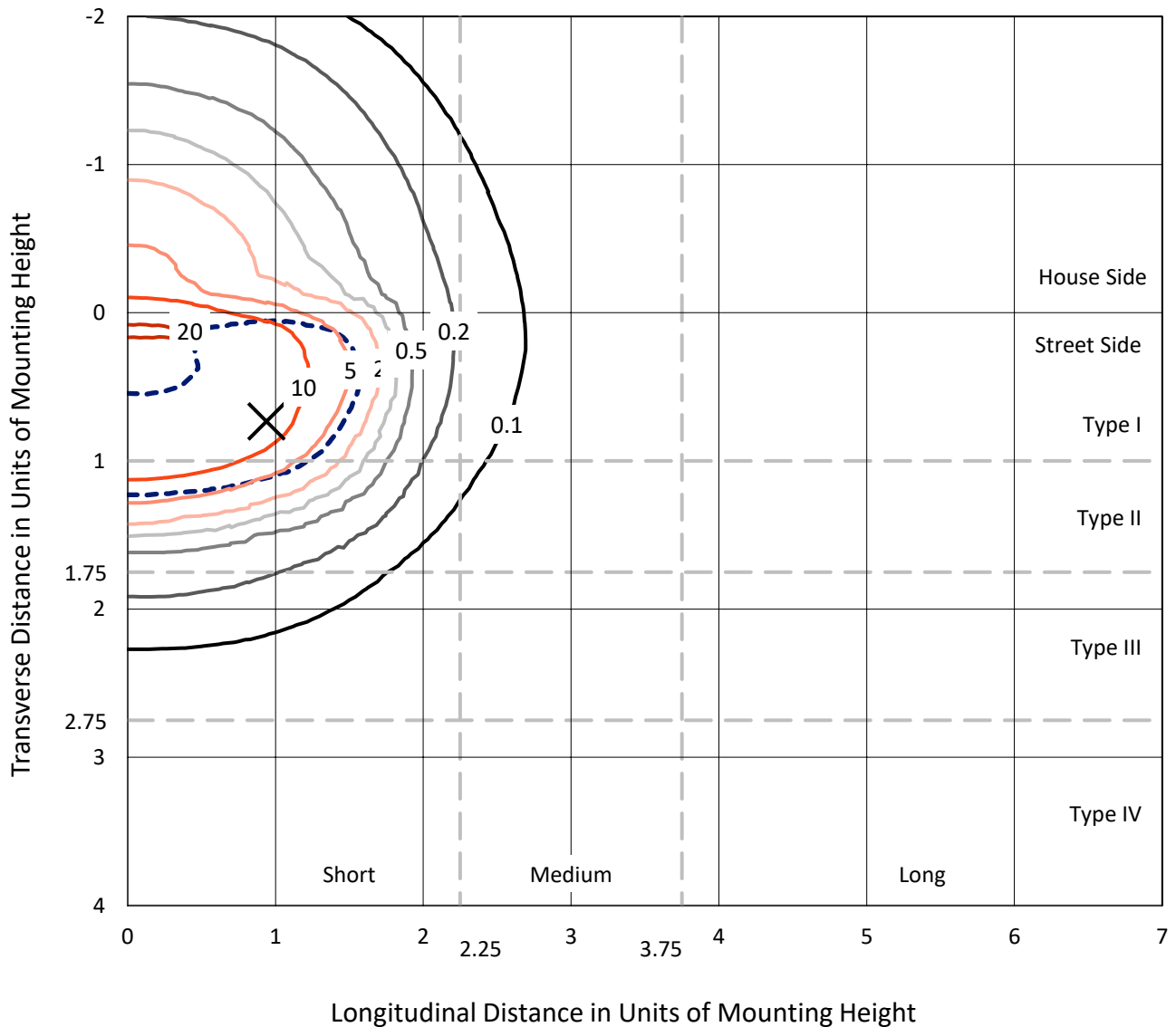
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532856  
 CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

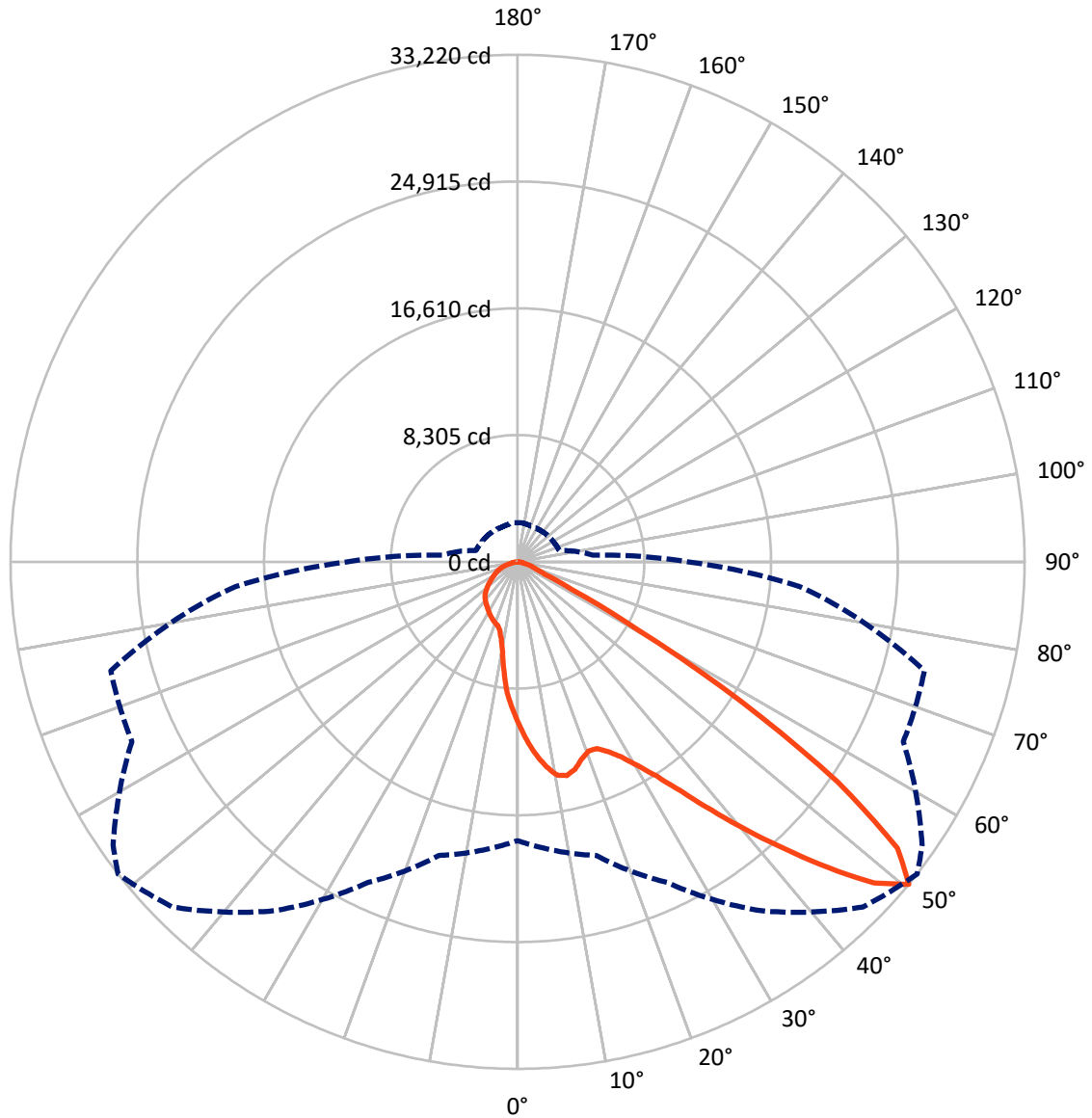
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P532856  
CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532856  
 CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7098.0	0.0	7098.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30662.0	0.0	30662.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37760.0	0.0	37760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.0	2.6
10°-20°	2629.4	7.0
20°-30°	4429.2	11.7
30°-40°	7432.6	19.7
40°-50°	11370.0	30.1
50°-60°	8289.7	22.0
60°-70°	1844.9	4.9
70°-80°	665.4	1.8
80°-90°	117.8	0.3
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°	37760.0	100.0
0°-180°	37760.0	100.0

**Coefficient of Utilization**

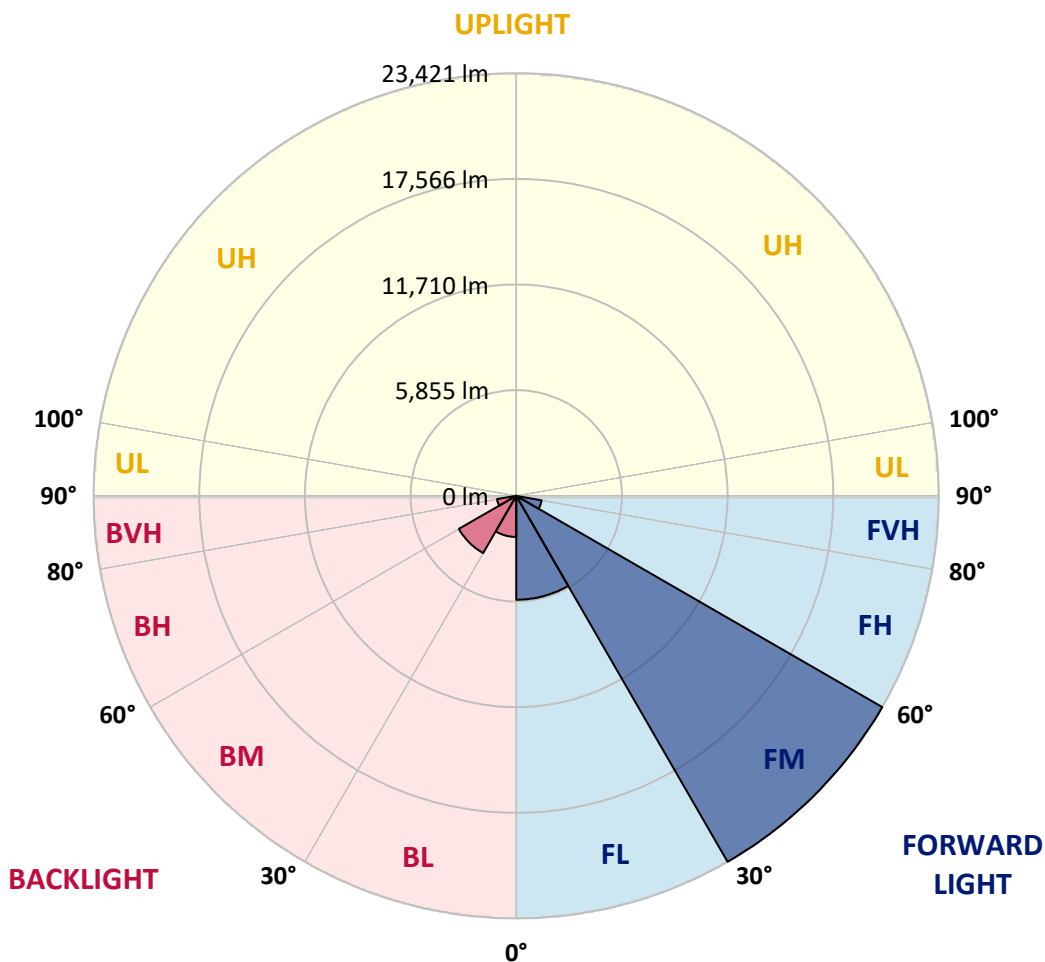


REPORT NUMBER: P532856  
 CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5759.7	15.3			
FM (30°-60°)	23420.7	62.0			
FH (60°-80°)	1428.9	3.8			G1/1800
FVH (80°-90°)	52.8	0.1			G1/100
BL (0°-30°)	2280.0	6.0	B3/2500		
BM (30°-60°)	3671.6	9.7	B3/5000		
BH (60°-80°)	1081.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	65.0	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-G3**  
 Type II Short





REPORT NUMBER: P532856

CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9
2.5°	12532.4	12291.2	12318.5	12145.6	11959.0	11904.4	11713.3	11531.3	11394.8	11103.5	10835.0
5°	13697.4	13624.6	13515.4	13378.8	13237.8	12891.9	12696.3	12468.7	11968.2	11517.6	11071.7
7.5°	13865.8	13852.1	13911.3	13911.3	13961.3	13829.4	13551.8	13392.5	12860.1	12127.4	11299.2
10°	12682.6	12723.6	13010.2	13383.4	13902.2	14261.7	14216.2	14175.2	13592.7	12591.6	11567.7
12.5°	11740.6	11649.6	11818.0	12136.5	12914.7	13783.9	14370.9	14375.4	14225.3	13333.3	11763.4
15°	11208.2	11271.9	11317.4	11467.6	12054.6	13060.3	14093.3	14398.2	15058.0	13856.7	12072.8
17.5°	11549.5	11335.6	11326.5	11362.9	11663.3	12418.7	13579.1	14102.4	15513.1	14530.2	12455.1
20°	11995.5	11990.9	11863.5	11818.0	11813.4	12486.9	13242.3	13952.2	15754.3	15403.9	12841.9
22.5°	12778.2	12778.2	12568.8	12468.7	12254.8	12805.5	13287.8	13770.2	16154.7	16004.6	13028.4
25°	14088.7	13874.9	13515.4	13269.6	13146.8	13342.4	13770.2	14202.5	16505.1	16641.6	13415.3
27.5°	15299.2	14962.5	14785.0	14361.8	14198.0	14084.2	14475.5	14912.4	16914.7	17633.7	13624.6
30°	16673.5	16614.3	16295.8	15749.7	15344.7	15135.4	15494.9	15927.2	17665.5	18648.5	14106.9
32.5°	19130.8	18593.9	18161.6	17492.6	16832.8	16386.8	16741.8	17028.4	18912.4	19708.8	14634.8
35°	21783.9	21610.9	20864.6	19658.7	18648.5	18248.0	18457.3	18671.2	20364.1	21328.8	15522.2
37.5°	24391.4	24154.7	23540.4	22525.6	21296.9	20482.4	20632.5	20882.8	21993.2	23513.1	16605.2
40°	26266.2	25975.0	25665.5	25515.4	24295.8	23180.9	23094.4	23158.1	24195.7	25560.9	17806.6
42.5°	26402.7	26762.2	26857.8	27463.0	27176.3	26261.7	25729.2	25742.9	26298.1	27585.9	19021.6
45°	26116.1	25783.9	26489.2	28141.1	29087.6	29515.4	28618.9	28505.1	27599.6	28760.0	19626.9
47.5°	23108.1	23199.1	24391.4	27003.4	29738.4	31649.6	31440.3	31062.6	28295.8	28719.0	19531.3
50°	18266.2	18816.8	19922.6	23176.3	27918.1	31986.4	33219.6	32345.9	27881.7	27590.5	18557.5
52.5°	12163.8	12391.4	13119.5	17319.7	22448.2	28591.6	31171.8	31372.0	27499.4	26111.5	17324.2
55°	5415.2	5397.0	6420.9	9046.6	14084.2	21756.6	25469.9	26689.4	26029.6	24605.2	16122.9
57.5°	2293.5	2370.9	2789.5	3909.0	6926.1	13128.6	17256.0	18325.4	20018.2	20204.8	12368.6
60°	1551.8	1560.9	1674.6	1956.8	2898.7	6166.1	9051.2	10334.5	11544.9	11463.0	6562.0
62.5°	1219.6	1251.4	1337.9	1451.7	1720.1	2798.6	4050.1	4764.5	4841.9	4072.8	2489.2
65°	1042.1	1046.6	1133.1	1228.7	1347.0	1629.1	1952.2	1988.6	2011.4	1938.6	1829.4
67.5°	860.1	869.2	937.4	1046.6	1155.9	1246.9	1337.9	1383.4	1488.1	1692.8	1665.5
70°	682.6	696.2	755.4	846.4	946.5	1001.1	1114.9	1155.9	1251.4	1410.7	1474.4
72.5°	518.8	523.3	573.4	637.1	728.1	782.7	878.3	923.8	987.5	1124.0	1183.2
75°	373.2	386.8	423.2	455.1	468.7	505.1	596.1	646.2	737.2	796.4	800.9
77.5°	195.7	204.8	213.9	213.9	259.4	327.6	386.8	414.1	477.8	523.3	500.6
80°	77.4	81.9	104.7	141.1	182.0	236.6	277.6	291.2	345.8	373.2	386.8
82.5°	45.5	50.1	68.3	100.1	132.0	168.4	200.2	213.9	250.3	282.1	291.2
85°	22.8	27.3	41.0	63.7	86.5	104.7	100.1	95.6	95.6	91.0	95.6
87.5°	9.1	9.1	13.7	13.7	13.7	18.2	22.8	22.8	22.8	27.3	27.3
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: P532856

CATALOG NUMBER: GALN-SA8B-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9	10643.9
2.5°	10657.6	10475.5	10307.2	9997.7	9661.0	9565.4	9174.1	9033.0	8932.9	8814.6	8778.2
5°	10712.2	10471.0	9929.5	9306.0	8810.0	8172.9	7754.3	7303.8	6976.1	6894.2	6871.4
7.5°	10825.9	10411.8	9479.0	8537.0	7522.2	6657.6	5997.7	5642.8	5328.8	5310.6	5278.7
10°	10953.4	10234.4	8987.5	7508.5	6211.6	5410.7	5014.8	4860.1	4782.7	4764.5	4755.4
12.5°	11058.0	10198.0	8436.9	6507.4	5283.3	4800.9	4682.6	4668.9	4700.8	4709.9	4728.1
15°	11103.5	10052.3	7772.5	5610.9	4705.3	4527.9	4577.9	4632.5	4655.3	4714.5	4668.9
17.5°	11190.0	9865.8	6953.4	4901.0	4382.3	4414.1	4500.6	4564.3	4600.7	4641.6	4582.5
20°	11235.5	9697.4	6184.3	4477.8	4268.5	4327.6	4446.0	4496.0	4541.5	4559.7	4491.5
22.5°	11194.5	9351.5	5506.3	4136.5	4159.3	4236.6	4341.3	4395.9	4368.6	4295.8	4254.8
25°	11085.3	8864.6	4800.9	3918.1	4004.6	4141.1	4223.0	4182.0	4132.0	4091.0	4077.4
27.5°	11080.8	8268.5	4291.2	3717.9	3872.6	4059.2	4031.9	3995.5	4018.2	3986.3	3949.9
30°	11103.5	7690.6	3872.6	3604.1	3777.0	3868.0	3899.9	3863.5	3890.8	3831.6	3849.8
32.5°	10985.2	7126.3	3599.5	3472.1	3663.3	3658.7	3763.4	3790.7	3727.0	3604.1	3622.3
35°	11035.3	6671.2	3367.5	3413.0	3535.8	3535.8	3617.7	3585.9	3417.5	3344.7	3362.9
37.5°	11381.1	6225.3	3253.7	3331.1	3413.0	3449.4	3422.1	3285.6	3244.6	3244.6	3253.7
40°	11708.8	5843.0	3185.4	3312.9	3299.2	3322.0	3121.7	3135.4	3135.4	3139.9	3117.2
42.5°	12000.0	5583.6	3130.8	3203.6	3226.4	3108.1	2985.2	2971.6	3003.4	2998.9	2980.7
45°	12104.7	5369.7	3053.5	3080.8	3099.0	2903.3	2844.1	2816.8	2853.2	2866.9	2885.1
47.5°	11704.2	5192.3	2967.0	2912.4	2876.0	2748.6	2671.2	2621.2	2666.7	2744.0	2762.2
50°	11190.0	4960.2	2830.5	2725.8	2648.5	2593.9	2539.3	2489.2	2521.0	2575.7	2562.0
52.5°	10430.0	4596.1	2657.6	2548.4	2416.4	2430.0	2380.0	2352.7	2370.9	2370.9	2357.2
55°	9347.0	3777.0	2366.3	2289.0	2179.8	2216.2	2225.3	2188.9	2152.4	2184.3	2157.0
57.5°	6380.0	2666.7	2111.5	2111.5	2002.3	2052.3	2047.8	1961.3	1874.9	1884.0	1865.8
60°	3690.6	2125.1	1947.7	1929.5	1815.7	1856.7	1865.8	1806.6	1674.6	1683.7	1665.5
62.5°	2097.8	1815.7	1701.9	1674.6	1651.9	1688.3	1688.3	1610.9	1497.2	1506.3	1488.1
65°	1783.8	1683.7	1519.9	1515.4	1506.3	1515.4	1479.0	1397.0	1296.9	1256.0	1260.5
67.5°	1620.0	1556.3	1397.0	1356.1	1328.8	1324.2	1256.0	1178.6	1133.1	1096.7	1092.2
70°	1419.8	1369.7	1251.4	1196.8	1169.5	1105.8	1037.5	987.5	923.8	905.6	923.8
72.5°	1124.0	1119.5	1073.9	1014.8	955.6	905.6	846.4	778.2	719.0	705.3	673.5
75°	778.2	787.3	796.4	787.3	737.2	673.5	605.2	550.6	477.8	436.9	427.8
77.5°	509.7	523.3	537.0	518.8	486.9	427.8	382.3	314.0	259.4	227.5	223.0
80°	373.2	391.4	400.5	386.8	350.4	304.9	254.8	200.2	159.3	132.0	132.0
82.5°	286.7	304.9	314.0	291.2	254.8	218.4	182.0	141.1	109.2	86.5	81.9
85°	100.1	95.6	113.8	118.3	141.1	132.0	109.2	81.9	63.7	45.5	41.0
87.5°	27.3	27.3	31.9	31.9	27.3	22.8	22.8	22.8	18.2	13.7	13.7
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)