

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: P533391

Luminaire Tested: **GALN-SA8D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37304 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

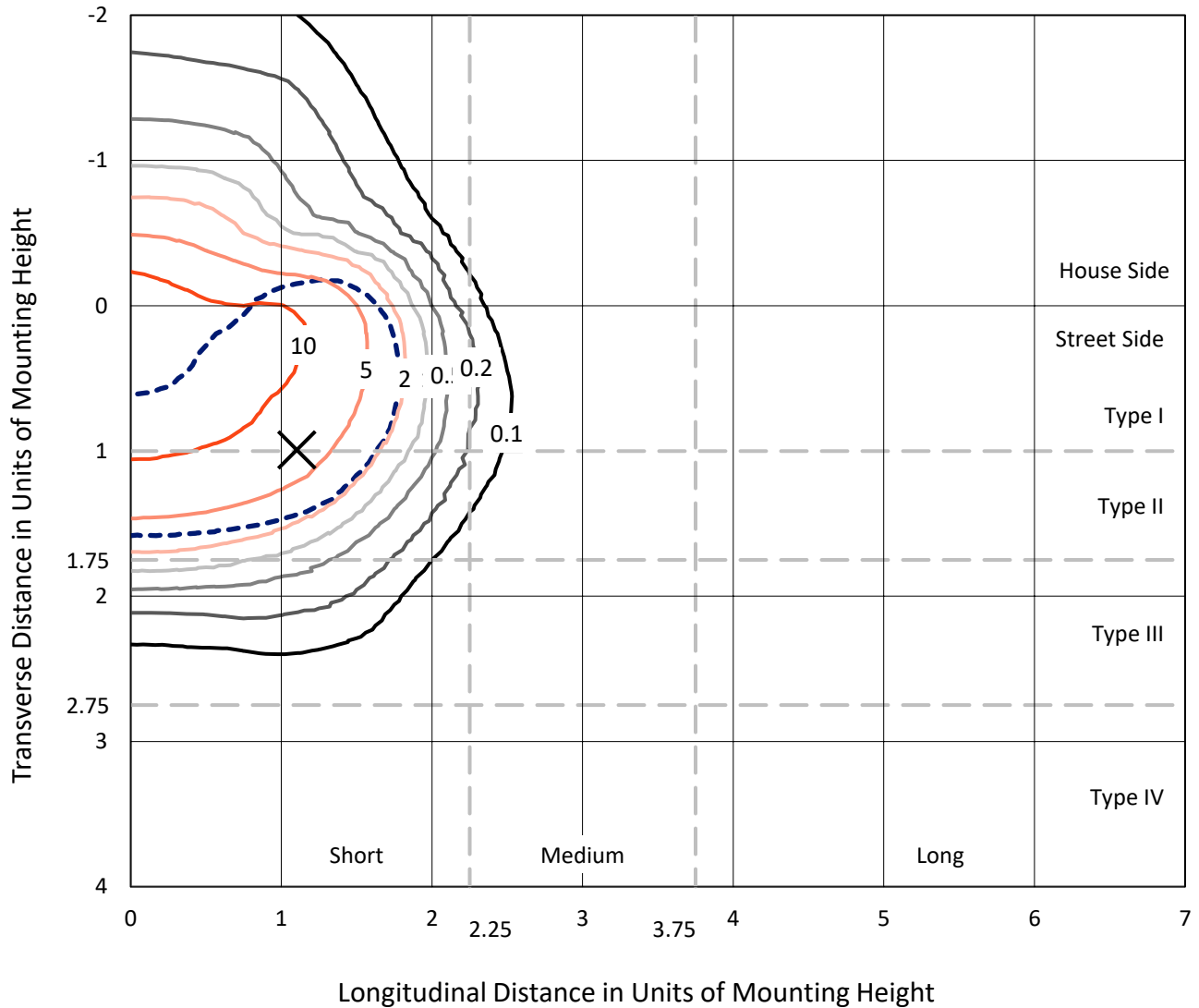
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

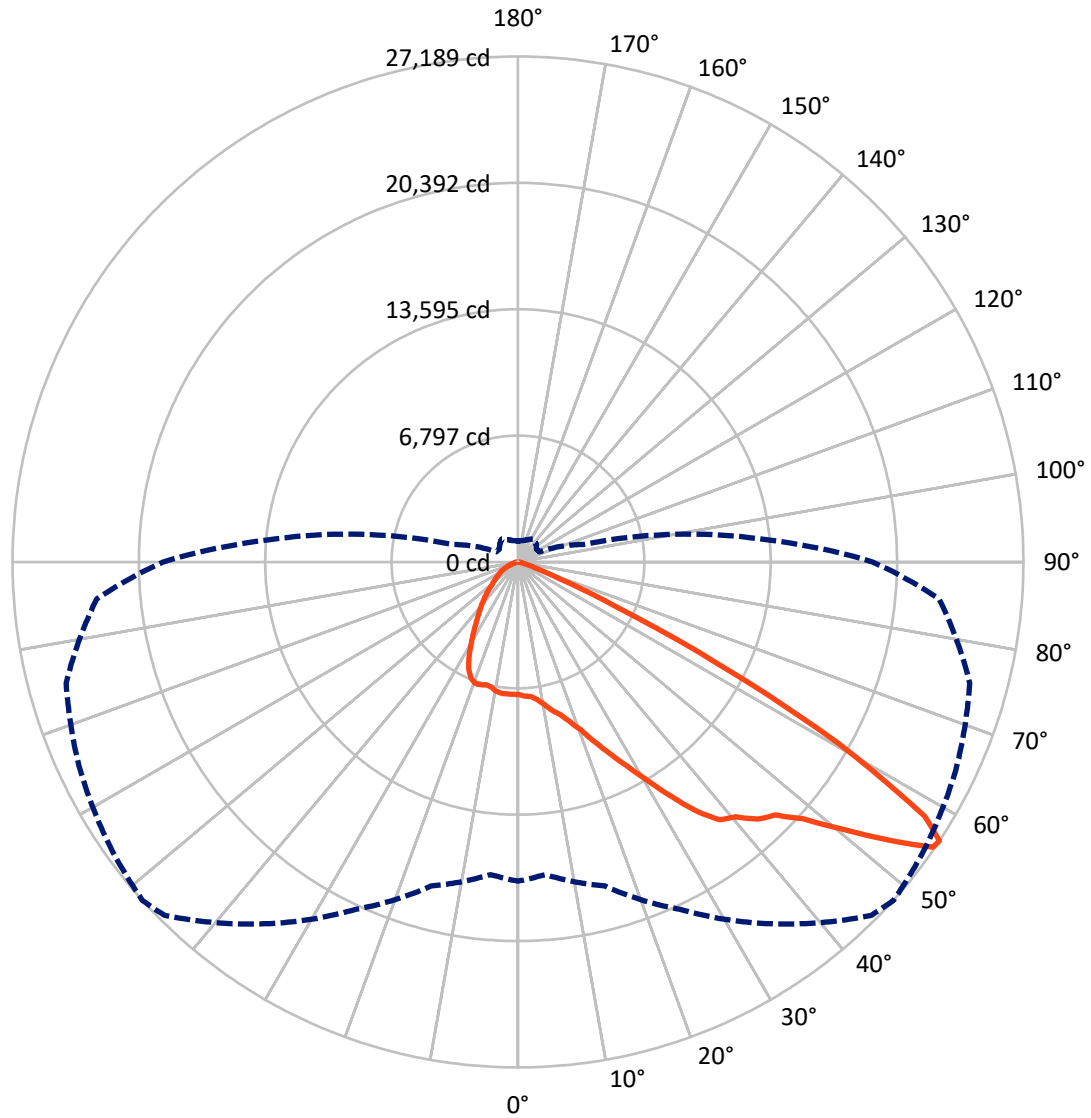
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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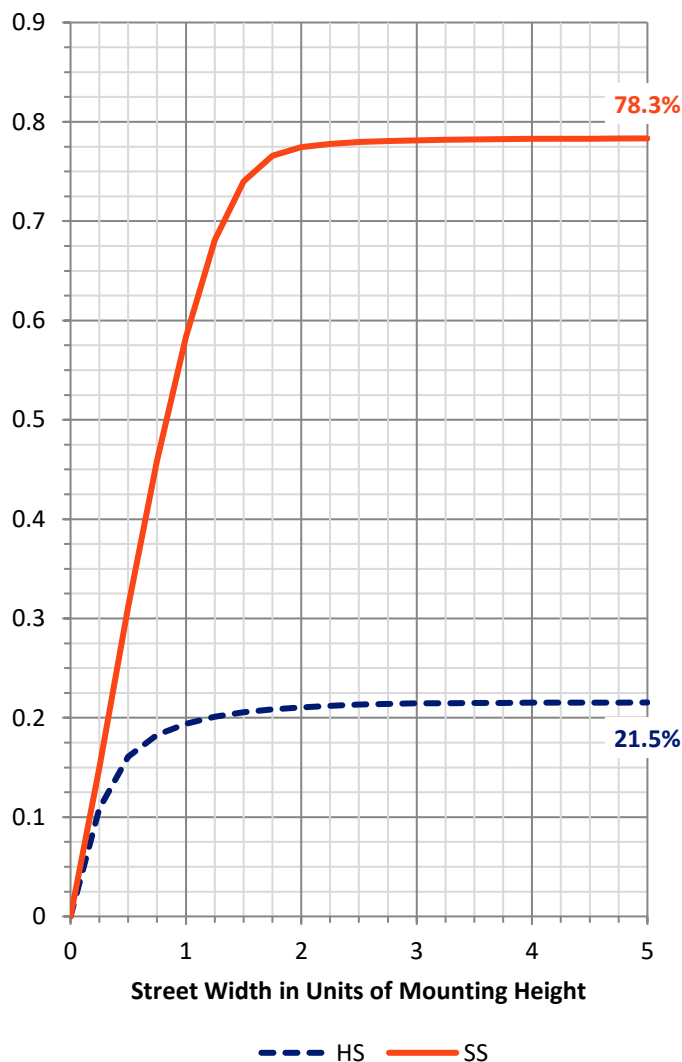
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8112.9	0.0	8112.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	29191.1	0.0	29191.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	37304.0	0.0	37304.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.1	1.9
10°-20°	2218.1	5.9
20°-30°	4023.2	10.8
30°-40°	6319.6	16.9
40°-50°	9219.2	24.7
50°-60°	11107.3	29.8
60°-70°	3252.1	8.7
70°-80°	412.6	1.1
80°-90°	57.9	0.2
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°	37304.0	100.0
0°-180°	37304.0	100.0

**Coefficient of Utilization**

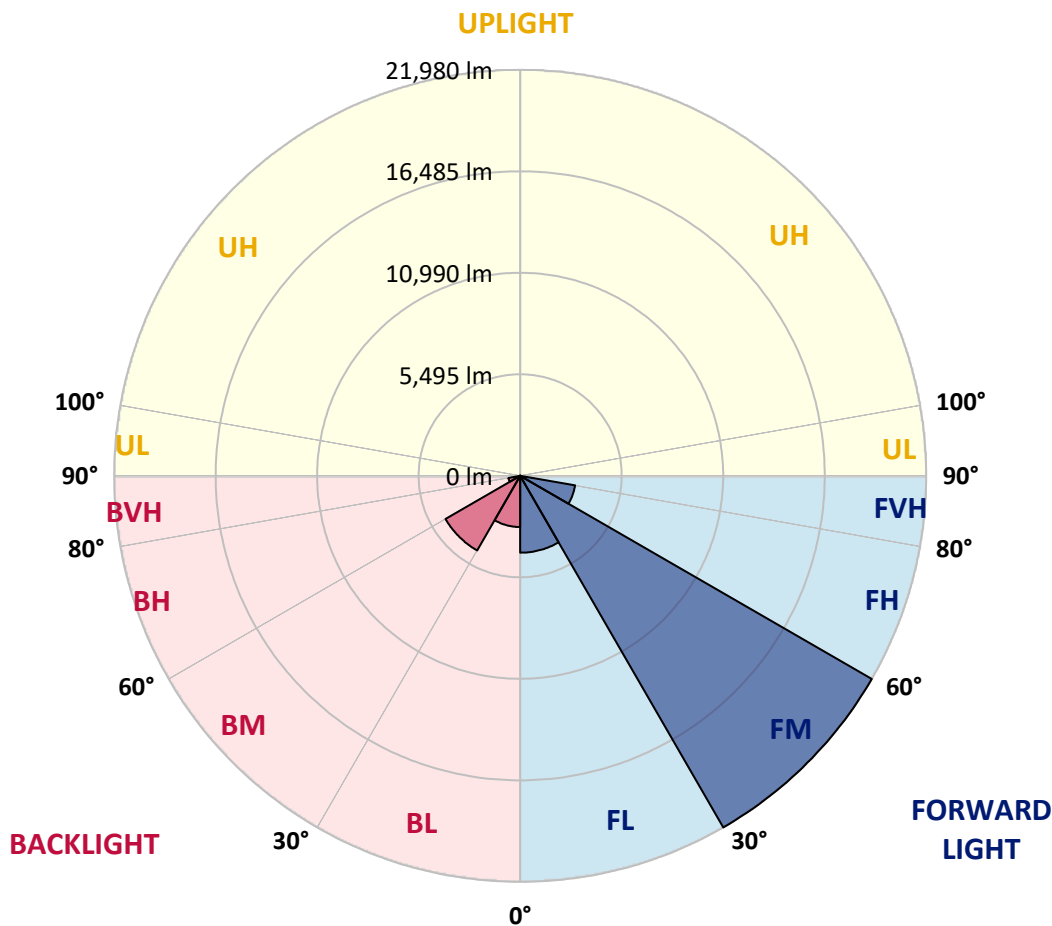


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4162.4	11.2			
FM (30°-60°)	21979.6	58.9			
FH (60°-80°)	3020.0	8.1			G2/5000
FVH (80°-90°)	29.1	0.1			G1/100
BL (0°-30°)	2773.0	7.4	B4/5000		
BM (30°-60°)	4666.5	12.5	B3/5000		
BH (60°-80°)	644.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	28.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1
2.5°	7254.1	7220.2	7220.2	7165.8	7227.0	7199.8	7220.2	7152.2	7220.2	7118.3	7199.8
5°	7288.1	7294.9	7267.7	7301.7	7301.7	7342.4	7274.5	7335.6	7369.6	7294.9	7260.9
7.5°	7464.7	7478.3	7471.5	7444.3	7498.7	7491.9	7485.1	7437.5	7451.1	7423.9	7383.2
10°	7811.1	7804.3	7838.3	7770.3	7729.6	7777.1	7790.7	7716.0	7661.7	7641.3	7512.2
12.5°	8313.7	8232.2	8184.7	8116.8	8137.1	8069.2	8191.5	8062.4	8035.2	7913.0	7783.9
15°	8721.3	8707.7	8714.5	8605.8	8483.5	8510.7	8510.7	8442.8	8402.0	8252.6	8069.2
17.5°	9556.7	9271.4	9332.6	9196.7	9094.8	9088.0	9026.9	9040.5	8931.8	8619.4	8340.9
20°	10208.8	10086.5	9991.4	9760.5	9604.3	9651.8	9624.6	9556.7	9522.7	9115.2	8721.3
22.5°	10792.9	10833.7	10677.4	10616.3	10398.9	10419.3	10473.7	10412.5	10154.4	9733.3	9149.2
25°	11614.8	11567.2	11356.7	11281.9	11078.2	11152.9	11363.5	11315.9	11152.9	10392.2	9482.0
27.5°	12586.1	12423.0	12463.8	12124.2	11927.2	12137.8	12389.1	12626.8	12164.9	11166.5	9875.9
30°	13272.1	13102.3	13088.7	13075.1	13027.6	13272.1	13564.1	13781.5	13407.9	11940.8	10528.0
32.5°	13611.7	13652.4	13767.9	13727.2	14141.5	14644.1	14949.8	15262.2	14793.5	13204.2	11390.6
35°	14515.1	14257.0	14515.1	14542.2	14970.1	16036.5	16423.7	17170.8	17055.4	14990.5	12443.4
37.5°	15044.9	15024.5	15058.4	15316.5	15730.9	17048.6	17598.7	18176.1	17958.7	16063.7	13754.3
40°	15921.1	15975.4	15968.6	16165.6	16620.7	17809.3	18033.4	18502.1	18522.5	17551.2	15683.3
42.5°	17327.1	17109.7	16967.1	17170.8	17809.3	18468.2	18916.4	18821.4	19493.8	19357.9	18162.5
45°	18590.4	18719.5	18508.9	18848.5	19079.5	19432.7	19419.1	19622.8	20478.7	21123.9	20030.4
47.5°	19772.3	19853.8	19955.7	20186.6	20689.2	20743.6	20628.1	20539.8	21721.6	22387.3	21477.1
50°	20478.7	20553.4	21028.8	21443.2	22380.5	22502.8	22570.7	22346.5	23148.0	23222.7	22842.4
52.5°	20288.5	20370.0	21035.6	22400.9	23895.2	25015.9	24812.1	24431.8	24384.2	24676.3	24105.7
55°	18604.0	18529.3	19446.2	21572.2	24370.6	27060.4	27087.5	26686.8	25919.3	25722.3	23915.5
56°	17170.8	16878.8	18047.0	20614.5	23759.3	26883.8	27189.4	26761.5	26041.5	25158.5	22740.5
57.5°	14066.8	14345.3	15506.7	17632.7	21646.9	25613.6	25790.2	25688.3	25144.9	23664.2	20010.0
60°	7756.8	8245.8	9271.4	11872.9	15411.6	19656.8	19799.4	20628.1	20730.0	18121.7	13767.9
62.5°	3294.2	3239.9	4306.3	6221.7	8775.6	11866.1	12131.0	12980.0	13136.2	10446.5	6907.7
65°	1338.1	1412.8	1949.4	3131.2	4639.1	5406.6	5780.2	6058.7	6574.9	4313.1	2547.1
67.5°	883.0	876.2	1147.9	1786.4	2499.6	2411.3	2411.3	2547.1	2356.9	1759.2	1100.3
70°	631.7	652.1	821.9	1236.2	1555.4	1154.7	1107.1	1059.6	1202.2	1161.5	889.8
72.5°	414.3	441.5	550.2	740.4	808.3	631.7	631.7	760.7	991.7	937.3	726.8
75°	271.7	278.5	339.6	427.9	400.7	326.0	360.0	509.4	720.0	692.8	516.2
77.5°	183.4	190.2	230.9	278.5	224.1	183.4	197.0	258.1	353.2	353.2	271.7
80°	67.9	74.7	95.1	88.3	101.9	129.1	142.6	176.6	210.6	210.6	183.4
82.5°	0.0	6.8	20.4	47.5	74.7	101.9	115.5	135.8	156.2	176.6	169.8
85°	0.0	6.8	20.4	34.0	54.3	61.1	67.9	47.5	40.8	40.8	34.0
87.5°	0.0	0.0	6.8	6.8	6.8	6.8	6.8	6.8	13.6	6.8	6.8
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°	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1	7125.1
2.5°	7125.1	7118.3	7118.3	7097.9	7138.7	7118.3	7131.9	7125.1	7036.8	7104.7	7057.2
5°	7199.8	7247.3	7172.6	7159.0	7104.7	7125.1	7125.1	7057.2	7118.3	7111.5	7097.9
7.5°	7390.0	7308.5	7227.0	7145.5	7131.9	7111.5	7036.8	7009.6	7057.2	7002.8	7084.3
10°	7471.5	7485.1	7362.8	7254.1	7152.2	7009.6	6907.7	6846.6	6771.9	6853.4	6900.9
12.5°	7845.1	7709.2	7498.7	7328.8	6982.4	6839.8	6737.9	6710.8	6839.8	6867.0	6819.4
15°	7974.1	7953.7	7682.0	7301.7	6941.7	6771.9	6792.3	6737.9	6751.5	6683.6	6697.2
17.5°	8239.0	8008.1	7688.8	7213.4	6934.9	6894.1	6771.9	6554.5	6432.3	6377.9	6425.5
20°	8531.1	8306.9	7845.1	7247.3	6996.0	6887.4	6486.6	6221.7	5970.4	5834.6	5841.3
22.5°	8789.2	8510.7	7777.1	7260.9	7050.4	6602.1	6119.8	5596.8	5284.4	5073.8	5080.6
25°	9101.6	8707.7	7804.3	7288.1	6907.7	6147.0	5454.2	4944.8	4571.2	4428.6	4476.1
27.5°	9278.2	8829.9	7953.7	7349.2	6534.2	5501.7	4754.6	4279.1	4061.8	3993.8	3987.1
30°	9808.0	9101.6	8137.1	7227.0	5909.3	4808.9	4116.1	3824.0	3613.5	3552.4	3565.9
32.5°	10595.9	9597.5	8374.9	6907.7	5270.8	4190.8	3701.8	3484.4	3287.5	3172.0	3158.4
35°	11254.8	10446.5	8626.2	6411.9	4530.4	3715.4	3409.7	3138.0	2839.2	2710.1	2676.2
37.5°	12511.3	11404.2	8571.8	5664.7	3824.0	3362.2	3097.3	2764.4	2506.3	2329.7	2309.4
40°	14182.2	12524.9	8306.9	4754.6	3301.0	3049.7	2764.4	2445.2	2126.0	1976.5	1963.0
42.5°	16213.1	13897.0	7824.7	3830.8	2778.0	2737.3	2479.2	2112.4	1827.1	1718.4	1725.2
45°	17863.6	15072.0	7335.6	3076.9	2390.9	2431.6	2207.5	1861.1	1664.1	1575.8	1575.8
47.5°	19330.8	15866.7	6805.8	2540.3	2030.9	2126.0	1929.0	1725.2	1555.4	1487.5	1473.9
50°	20743.6	16675.0	6276.0	2058.1	1732.0	1827.1	1806.7	1643.7	1507.9	1426.4	1433.2
52.5°	21626.6	16804.0	5603.6	1684.5	1514.7	1623.4	1691.3	1541.8	1392.4	1344.9	1331.3
55°	20546.6	15139.9	4347.0	1385.6	1283.7	1426.4	1555.4	1385.6	1270.2	1188.6	1181.9
56°	19093.0	13537.0	3633.9	1276.9	1215.8	1372.0	1507.9	1324.5	1195.4	1147.9	1113.9
57.5°	16165.6	11078.2	2682.9	1134.3	1127.5	1276.9	1433.2	1263.4	1113.9	1073.2	1073.2
60°	10079.7	6235.3	1623.4	950.9	978.1	1134.3	1290.5	1127.5	991.7	991.7	1012.0
62.5°	4591.6	2594.6	984.9	808.3	842.2	978.1	1147.9	1018.8	944.1	1018.8	1032.4
65°	1562.2	1120.7	713.2	645.3	665.6	808.3	984.9	1032.4	1025.6	1073.2	1100.3
67.5°	876.2	720.0	597.7	536.6	523.0	597.7	808.3	1032.4	991.7	971.3	984.9
70°	740.4	611.3	529.8	475.5	455.1	482.3	624.9	781.1	699.6	679.2	665.6
72.5°	597.7	509.4	461.9	427.9	366.8	312.4	285.3	298.9	332.8	353.2	387.2
75°	421.1	387.2	387.2	346.4	264.9	197.0	156.2	129.1	88.3	61.1	67.9
77.5°	237.7	237.7	244.5	210.6	169.8	129.1	95.1	67.9	34.0	13.6	6.8
80°	163.0	176.6	190.2	169.8	142.6	115.5	81.5	47.5	20.4	0.0	0.0
82.5°	163.0	183.4	197.0	169.8	142.6	108.7	81.5	47.5	20.4	6.8	0.0
85°	34.0	40.8	47.5	54.3	81.5	81.5	61.1	40.8	20.4	6.8	0.0
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	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)