

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: P533156

Luminaire Tested: **GALN-SA8C-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533156  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49887 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

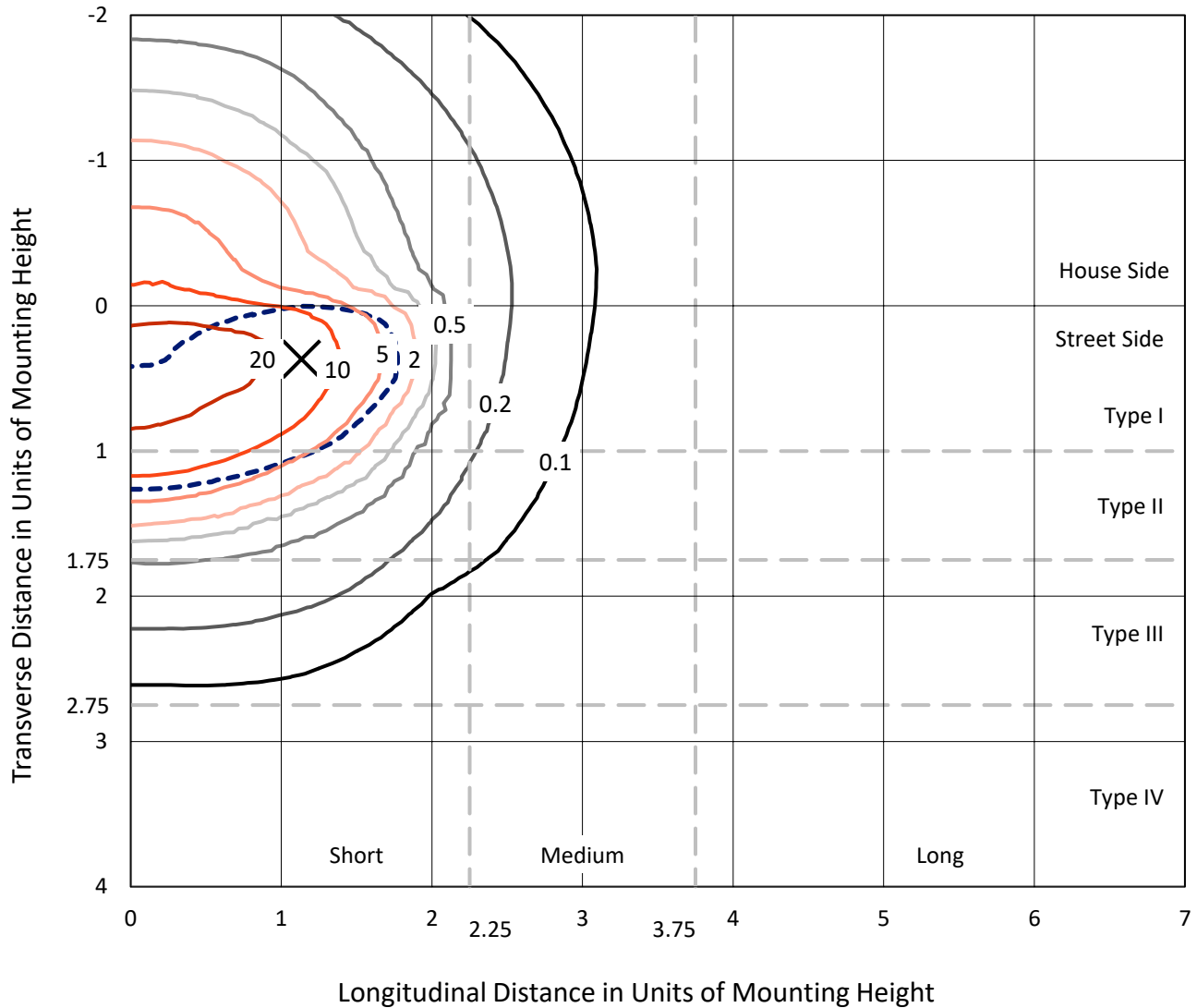
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

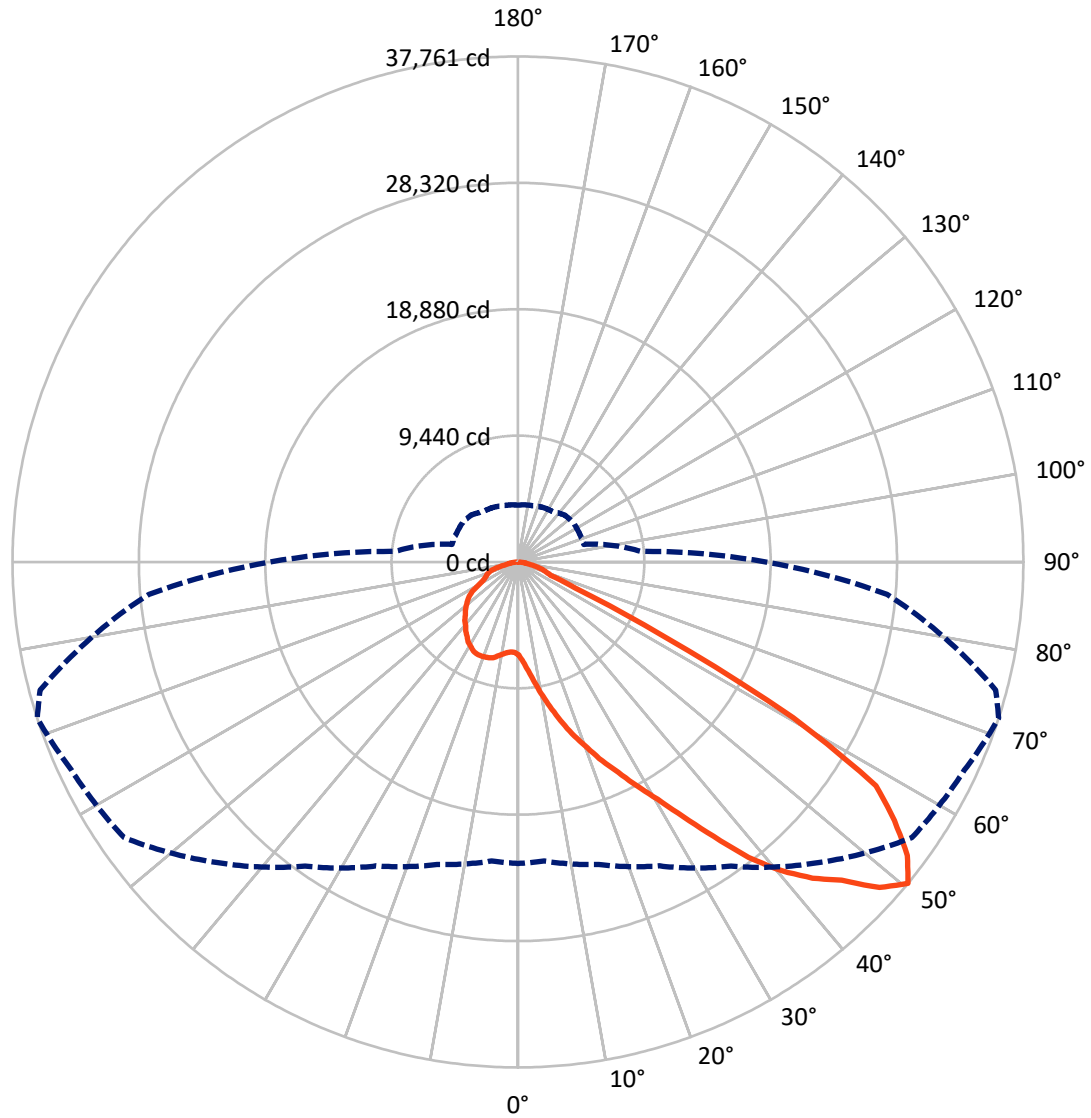
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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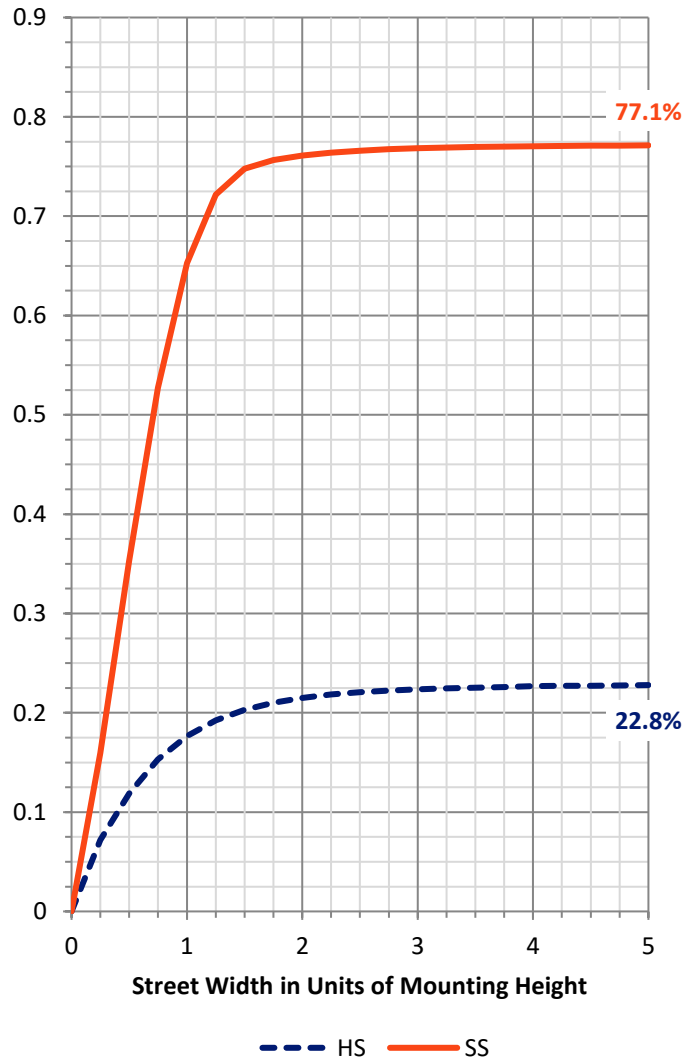
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11429.4	0.0	11429.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	38457.6	0.0	38457.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	49887.0	0.0	49887.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	816.9	1.6
10°-20°	3053.7	6.1
20°-30°	5921.0	11.9
30°-40°	9809.0	19.7
40°-50°	13725.0	27.5
50°-60°	11578.8	23.2
60°-70°	3529.2	7.1
70°-80°	1238.1	2.5
80°-90°	215.2	0.4
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°	49887.0	100.0
0°-180°	49887.0	100.0

**Coefficient of Utilization**



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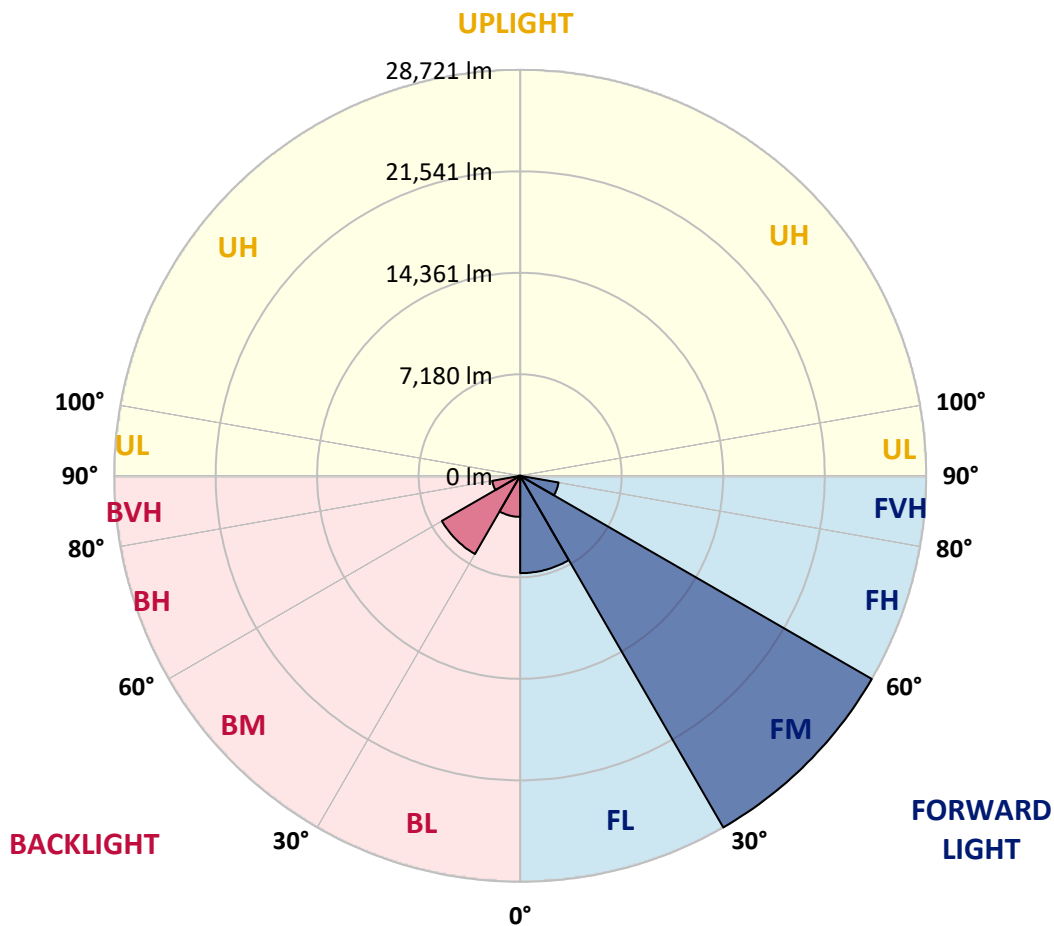
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6886.2	13.8			
FM (30°-60°)	28721.3	57.6			
FH (60°-80°)	2753.7	5.5			G2/5000
FVH (80°-90°)	96.4	0.2			G1/100
BL (0°-30°)	2905.4	5.8	B4/5000		
BM (30°-60°)	6391.5	12.8	B4/8500		
BH (60°-80°)	2013.7	4.0	B3/2500		G3/2500
BVH (80°-90°)	118.8	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7
2.5°	8932.4	8876.9	8710.2	8654.6	8457.1	8099.1	7975.6	7611.4	7457.1	7315.1	7148.4
5°	11296.7	11037.4	11018.9	10704.1	10247.3	9981.8	9191.7	8660.8	8173.1	7926.2	7469.4
7.5°	12802.9	12809.1	12809.1	12549.8	12185.6	11512.8	10802.9	9846.0	9111.4	8747.2	7969.4
10°	14235.1	14111.6	14043.7	14019.0	13772.1	13117.8	12358.5	11173.2	10167.0	9741.1	8346.0
12.5°	15247.5	15142.5	15296.8	15216.6	15037.6	14611.6	13895.6	12543.7	11284.4	10710.3	8950.9
15°	15729.0	15803.0	15926.5	16148.7	16068.5	15908.0	15117.8	13951.1	12488.1	11839.9	9488.0
17.5°	16469.7	16266.0	16414.2	16692.0	16914.2	16840.1	16389.5	14969.7	13679.5	12883.2	10210.2
20°	16988.3	16871.0	16945.1	17266.1	17432.7	17852.5	17617.9	16303.1	14821.5	13982.0	11062.1
22.5°	18469.8	18297.0	18056.2	18105.6	18167.3	18463.6	18519.2	17766.1	16148.7	15259.8	11870.8
25°	20297.0	20136.5	19852.6	19562.4	19383.4	19327.9	19519.2	18914.3	17420.4	16500.6	12741.2
27.5°	22309.4	22037.8	21858.8	21260.0	20778.5	20704.5	20611.9	20284.7	18926.6	17932.7	13722.7
30°	24266.3	24050.3	23809.5	22852.7	22352.7	22272.4	21815.6	21908.2	20562.5	19457.5	14833.9
32.5°	25747.8	25766.4	25217.0	24494.7	24025.6	23599.6	23432.9	23698.4	22661.3	21772.4	16074.7
35°	26945.4	27001.0	26476.3	25821.9	25315.7	25612.0	25538.0	25661.4	25167.6	24081.1	17519.2
37.5°	28112.1	27834.3	27272.6	26957.8	26692.3	27180.0	27809.6	27914.6	28007.2	26729.4	19198.2
40°	28303.5	28328.2	28001.0	28223.2	27889.9	28624.5	30087.5	29951.7	30328.3	29210.9	21019.3
42.5°	28031.9	28087.4	28217.1	28531.9	29334.4	30217.1	32390.1	31834.5	32291.3	31297.4	22790.9
45°	27587.4	27359.0	27519.5	28717.1	30106.0	32069.1	34495.1	34063.0	33914.8	33081.4	24902.1
47.5°	25463.9	25698.5	26198.5	27673.8	29760.3	32390.1	35989.0	35890.2	36334.6	35748.2	26822.0
50°	22519.3	22426.7	23389.7	25050.3	27741.7	31760.4	35908.7	36803.8	37760.6	36945.8	27680.0
52.5°	16864.8	17358.7	18185.8	20247.6	24087.3	28328.2	34155.6	35649.4	36427.2	36254.4	26988.6
55°	10660.9	10809.0	11309.1	13759.8	17216.7	22735.4	29278.8	32741.9	34130.9	34779.0	26352.8
57.5°	5179.2	4901.4	5512.5	7481.8	9944.8	15290.7	22581.1	28519.6	31538.2	32711.1	24970.0
60°	2703.8	2808.7	3049.5	3753.2	5142.2	7938.6	14074.6	19006.9	23618.1	25420.7	18926.6
62.5°	2240.8	2277.9	2438.4	2790.2	3419.9	4568.1	7185.4	9265.8	12043.6	13667.2	10765.8
65°	1901.3	1919.8	2092.7	2327.2	2728.5	3216.2	3697.7	3870.5	4685.4	4808.8	3827.3
67.5°	1586.5	1605.0	1790.2	2012.4	2271.7	2401.3	2524.8	2512.4	2605.0	2568.0	2561.8
70°	1222.3	1240.8	1432.2	1666.7	1796.4	1722.3	2105.0	2191.4	2228.5	2259.3	2308.7
72.5°	882.7	919.8	1067.9	1234.6	1166.7	1339.6	1734.6	1864.3	1913.6	1932.2	1993.9
75°	642.0	654.3	691.4	642.0	740.8	932.1	1222.3	1382.8	1444.5	1463.0	1555.6
77.5°	284.0	290.1	296.3	370.4	475.3	580.3	728.4	858.1	944.5	969.2	993.9
80°	148.2	154.3	191.4	253.1	339.5	425.9	530.9	605.0	660.5	666.7	691.4
82.5°	92.6	98.8	135.8	179.0	240.7	314.8	388.9	450.6	493.8	500.0	506.2
85°	43.2	55.6	80.2	111.1	160.5	203.7	209.9	179.0	191.4	197.5	185.2
87.5°	12.3	18.5	24.7	18.5	24.7	24.7	30.9	37.0	37.0	37.0	43.2
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°	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7	6944.7
2.5°	7055.8	7000.3	6784.2	6703.9	6494.1	6531.1	6420.0	6413.8	6389.1	6382.9	6376.8
5°	7228.7	7055.8	6796.5	6599.0	6481.7	6469.4	6389.1	6389.1	6413.8	6432.3	6389.1
7.5°	7512.6	7315.1	6876.8	6691.6	6586.7	6568.1	6512.6	6469.4	6524.9	6506.4	6457.0
10°	7839.8	7494.1	7031.1	6870.6	6697.8	6654.6	6654.6	6673.1	6580.5	6611.4	6562.0
12.5°	8204.0	7741.0	7228.7	7043.5	6839.8	6815.1	6802.7	6666.9	6716.3	6691.6	6568.1
15°	8667.0	8025.0	7481.8	7166.9	6994.1	6883.0	6722.5	6697.8	6666.9	6605.2	6549.6
17.5°	9167.0	8333.6	7599.0	7204.0	6944.7	6864.4	6741.0	6611.4	6518.8	6531.1	6487.9
20°	9592.9	8617.6	7642.3	7241.0	6907.7	6753.3	6562.0	6481.7	6382.9	6376.8	6370.6
22.5°	10099.1	9000.3	7704.0	7142.2	6796.5	6636.0	6506.4	6364.4	6296.5	6210.1	6253.3
25°	10704.1	9148.5	7716.3	7086.7	6716.3	6432.3	6364.4	6210.1	6185.4	6061.9	6086.6
27.5°	11142.4	9228.7	7617.6	6913.8	6531.1	6315.0	6191.6	6080.5	6037.3	5944.7	5920.0
30°	11728.8	9352.2	7407.7	6697.8	6345.9	6105.2	6031.1	6006.4	5882.9	5784.2	5771.8
32.5°	12395.5	9432.4	7271.9	6475.5	6154.5	5969.4	6006.4	5889.1	5734.8	5648.4	5623.7
35°	12926.4	9463.3	6932.3	6222.4	6024.9	5907.6	5864.4	5839.7	5617.5	5537.2	5475.5
37.5°	13735.1	9395.4	6648.4	6043.4	5882.9	5839.7	5802.7	5636.0	5382.9	5265.6	5179.2
40°	14679.5	9376.9	6284.2	5790.3	5747.1	5796.5	5685.4	5426.1	5074.3	4944.6	4882.9
42.5°	15587.0	9506.5	6055.8	5654.5	5599.0	5617.5	5463.2	5074.3	4901.4	4827.3	4728.6
45°	17105.6	9778.1	5679.2	5444.6	5419.9	5407.6	5222.4	4815.0	4716.2	4623.6	4605.1
47.5°	18476.0	9599.1	5438.5	5228.6	5253.3	5185.4	4790.3	4660.7	4549.5	4457.0	4426.1
50°	18556.2	9173.2	5098.9	5061.9	5068.1	4950.8	4574.2	4487.8	4345.8	4284.1	4240.9
52.5°	18136.5	8475.6	4784.1	4796.5	4815.0	4623.6	4308.8	4247.1	4129.8	4043.4	4018.7
55°	16957.4	7389.2	4475.5	4524.9	4574.2	4210.0	4111.3	3956.9	3864.3	3740.9	3747.0
57.5°	14938.8	5950.8	4043.4	4123.6	4228.5	3827.3	3753.2	3561.9	3426.0	3327.3	3314.9
60°	10012.7	4234.7	3395.2	3426.0	3660.6	3500.1	3494.0	3302.6	3117.4	3031.0	2981.6
62.5°	5907.6	3234.7	2932.2	2901.3	2895.2	2987.8	3142.1	3074.2	2833.4	2666.8	2716.1
65°	3092.7	2796.4	2728.5	2623.6	2561.8	2537.1	2654.4	2685.3	2524.8	2345.8	2333.4
67.5°	2598.9	2598.9	2543.3	2506.3	2419.8	2314.9	2240.8	2142.1	2117.4	2068.0	2006.2
70°	2364.3	2426.0	2407.5	2321.1	2247.0	2129.7	1938.3	1777.8	1623.5	1568.0	1605.0
72.5°	2061.8	2123.5	2123.5	2080.3	1981.6	1802.5	1617.3	1432.2	1302.5	1203.7	1191.4
75°	1586.5	1617.3	1691.4	1642.0	1512.4	1401.3	1209.9	1018.6	895.1	802.5	784.0
77.5°	1012.4	1061.8	1061.8	1055.6	963.0	858.1	734.6	598.8	506.2	438.3	419.8
80°	672.9	703.7	728.4	703.7	642.0	561.7	469.2	376.6	308.7	253.1	240.7
82.5°	493.8	530.9	549.4	524.7	463.0	401.2	333.3	265.4	197.5	154.3	142.0
85°	191.4	197.5	222.2	265.4	259.3	253.1	203.7	148.2	111.1	80.2	74.1
87.5°	49.4	43.2	49.4	49.4	43.2	37.0	37.0	37.0	37.0	18.5	24.7
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)