

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: P534006

Luminaire Tested: **GALN-SA9C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45093 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

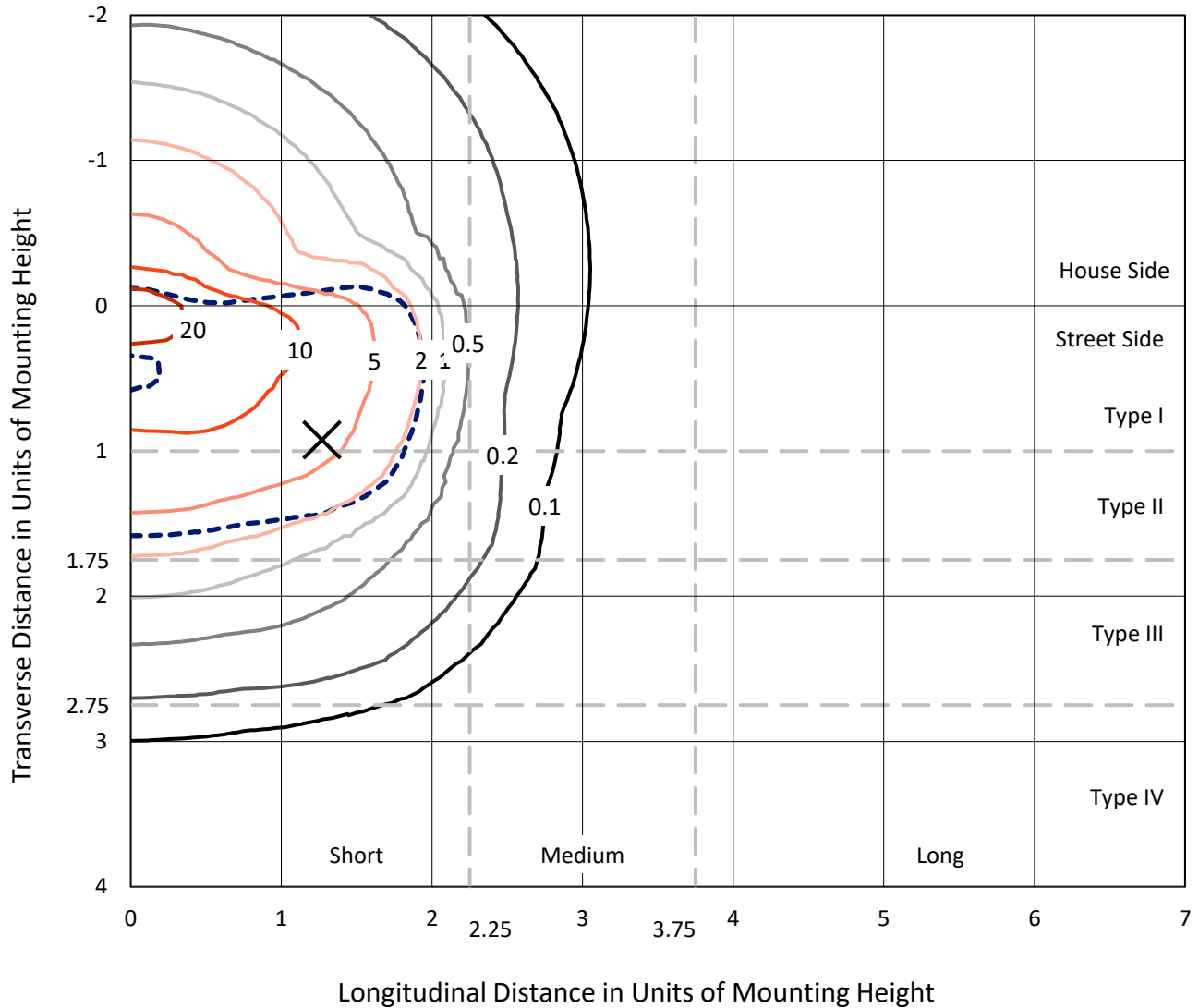
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

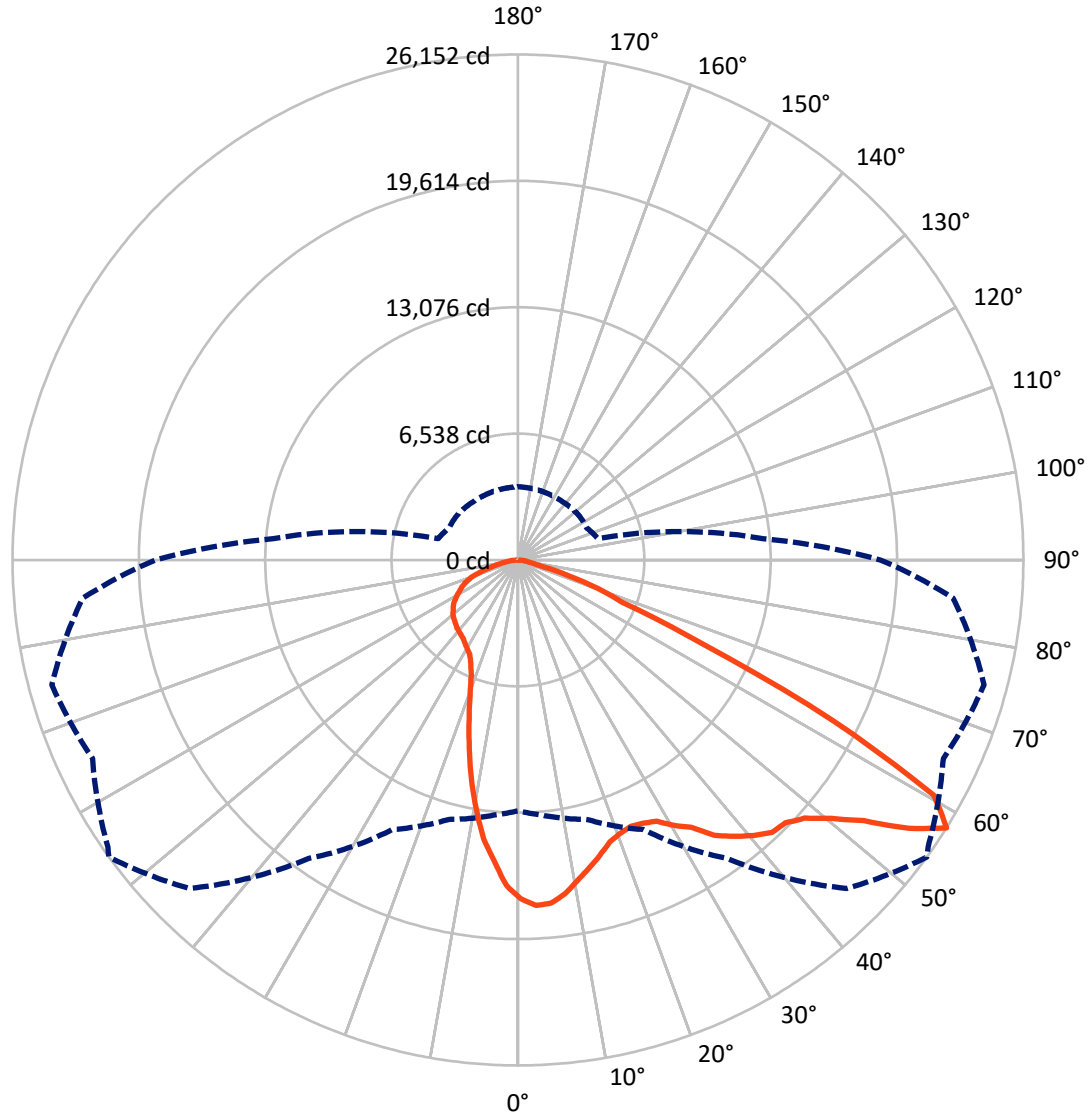
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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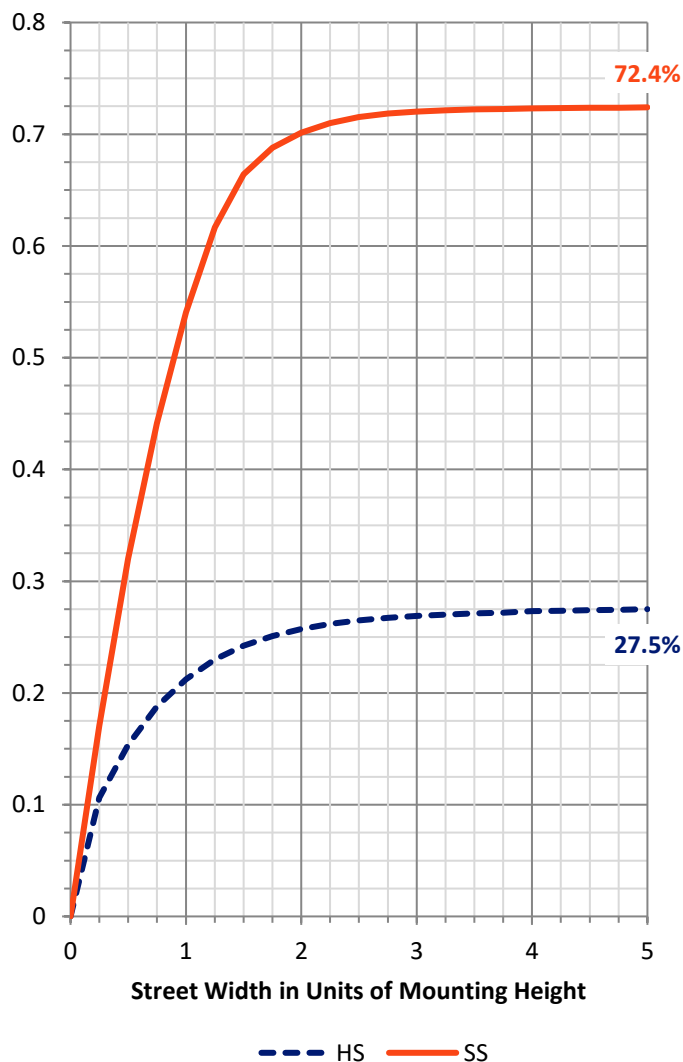
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12475.2	0.0	12475.2
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	32617.8	0.0	32617.8
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	45093.0	0.0	45093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1511.5	3.4
10°-20°	3499.8	7.8
20°-30°	4917.2	10.9
30°-40°	6874.3	15.2
40°-50°	9306.5	20.6
50°-60°	11335.8	25.1
60°-70°	5904.2	13.1
70°-80°	1512.9	3.4
80°-90°	230.8	0.5
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°	45093.0	100.0
0°-180°	45093.0	100.0

**Coefficient of Utilization**



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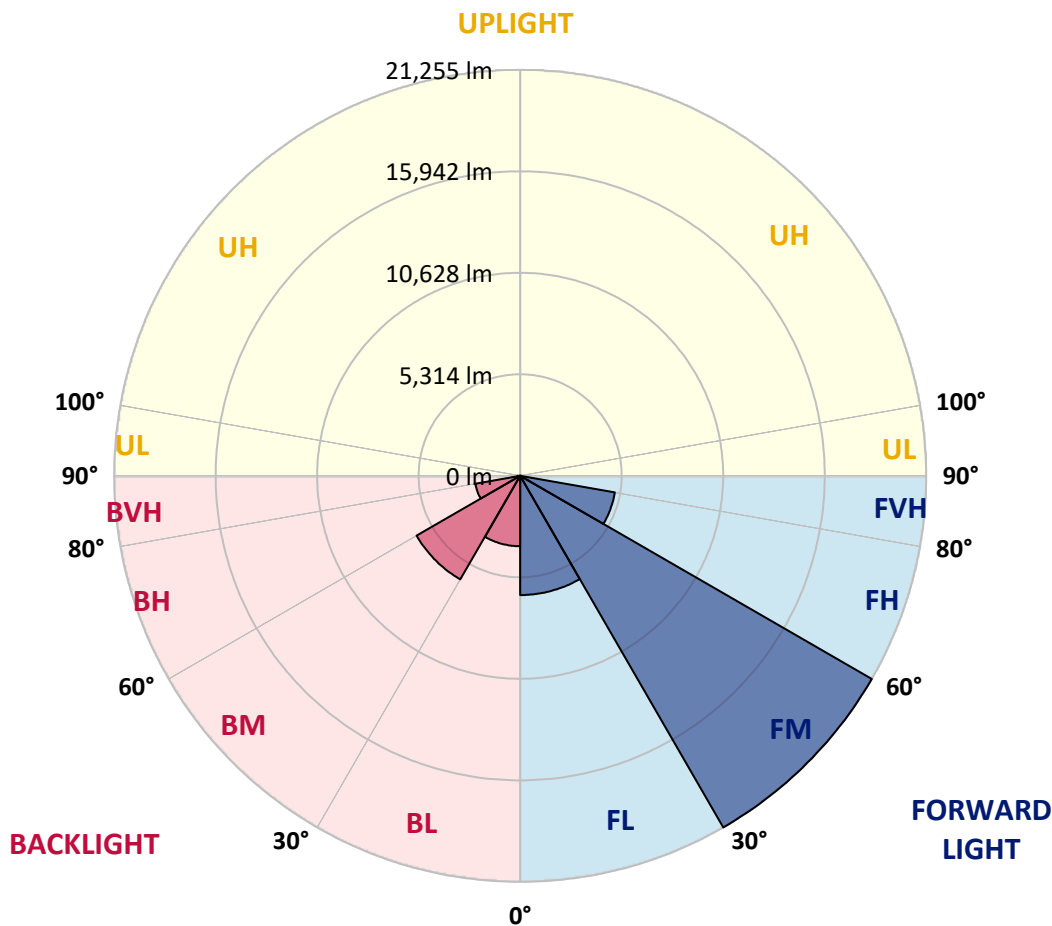
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6241.5	13.8			
FM (30°-60°)	21255.4	47.1			
FH (60°-80°)	5033.6	11.2			G3/7500
FVH (80°-90°)	87.2	0.2			G1/100
BL (0°-30°)	3687.1	8.2	B4/5000		
BM (30°-60°)	6261.2	13.9	B4/8500		
BH (60°-80°)	2383.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	143.6	0.3			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°	54°	55°	65°	75°	85°
0°	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1
2.5°	18025.6	17956.0	17967.6	18060.4	17944.4	17898.1	17898.1	17672.0	17689.4	17532.9	17492.4
5°	17608.3	17446.0	17556.1	17695.2	17718.4	17764.8	17840.1	17782.2	17619.9	17451.8	17179.4
7.5°	16518.6	16663.5	16704.1	16802.6	17011.3	17202.6	17440.2	17277.9	17272.1	17104.0	16941.7
10°	15562.3	15475.3	15695.6	15840.5	16188.3	16507.0	16872.2	16854.8	16941.7	16750.5	16472.3
12.5°	14611.7	14542.2	14646.5	14976.9	15463.8	15927.4	16362.1	16199.8	16663.5	16628.8	16031.8
15°	13603.2	13655.4	13806.1	14113.3	14750.8	15307.3	15857.9	15863.7	16275.2	16414.3	15614.4
17.5°	12896.1	12838.2	13029.4	13487.3	14055.3	14721.9	15347.8	15475.3	16107.1	16188.3	15486.9
20°	12368.7	12449.8	12699.1	12930.9	13585.8	14391.5	15098.6	15145.0	16072.3	16292.6	15284.1
22.5°	12241.2	12194.8	12275.9	12652.7	13191.7	14066.9	14965.3	15139.2	16066.5	16257.8	14901.5
25°	12107.9	12258.6	12252.8	12629.5	13023.6	13806.1	15075.4	15266.7	16373.7	16437.5	14953.7
27.5°	12409.3	12391.9	12554.2	12583.1	13070.0	13875.6	15307.3	15452.2	16883.8	16831.6	14994.3
30°	12710.6	12623.7	12722.2	13064.2	13290.2	14275.6	15944.8	15933.2	17544.5	17509.7	15121.8
32.5°	13081.6	13041.0	13104.8	13406.2	13788.7	14808.8	16483.9	16825.8	18216.9	18437.1	15562.3
35°	13151.1	13319.2	13469.9	13875.6	14420.5	15672.4	17498.2	17782.2	18993.5	19683.2	16402.7
37.5°	13591.6	13655.4	14009.0	14727.7	15226.1	16825.8	18141.5	18321.2	19700.6	20483.1	17289.5
40°	14061.1	14136.5	14669.7	15423.2	16107.1	17579.3	18744.3	18802.3	19926.7	21097.5	17869.1
42.5°	14698.7	14768.2	15295.7	16240.4	17156.2	18222.7	19277.5	19341.3	19909.3	21804.6	18790.7
45°	15359.4	15527.5	16147.7	17219.9	18043.0	18976.1	19399.2	19660.1	20071.6	22436.4	19538.3
47.5°	16286.8	16443.3	16953.3	18002.4	18964.5	19636.9	19961.5	20216.5	20459.9	22987.0	20019.4
50°	17272.1	17301.1	17921.3	18871.8	19578.9	20384.6	21010.5	21097.5	20970.0	23624.5	20836.7
52.5°	17996.6	18089.3	18570.4	19497.8	20552.6	21543.8	22401.6	22494.3	22245.1	23862.2	21114.9
55°	16796.8	16744.7	17527.1	18761.7	21207.6	23271.0	24517.1	24586.7	23172.4	24598.3	22024.8
57.5°	12983.1	13232.3	13898.8	15388.4	18842.8	24036.1	26151.6	25902.4	24285.3	24969.2	22604.4
60°	9435.9	9377.9	9824.2	10821.1	14200.2	20714.9	24725.8	24980.8	23375.3	22505.9	18640.0
62.5°	7685.5	7604.4	7639.1	7673.9	9163.5	13748.1	18303.8	18298.0	18002.4	16176.7	12571.5
65°	6143.8	6335.0	6352.4	6613.2	6804.5	8212.9	10606.7	11174.7	9731.5	7981.1	5790.2
67.5°	4631.0	4561.5	4793.3	5720.7	6080.0	5929.3	5790.2	5854.0	4161.5	3002.3	2828.5
70°	2729.9	2700.9	2979.1	3987.7	5007.8	4712.2	4364.4	4370.2	2857.4	2098.2	2335.8
72.5°	1495.4	1489.6	1547.5	2022.8	2845.8	2956.0	2619.8	2700.9	1704.0	1698.2	1825.7
75°	834.6	817.2	799.8	892.6	1025.9	1083.9	1107.0	1118.6	1170.8	1309.9	1362.1
77.5°	307.2	295.6	295.6	342.0	434.7	544.8	689.7	701.3	828.8	950.5	1002.7
80°	104.3	115.9	156.5	214.5	289.8	388.3	469.5	481.1	585.4	666.5	683.9
82.5°	63.8	69.6	104.3	150.7	208.7	272.4	347.8	353.6	434.7	486.9	510.0
85°	29.0	34.8	58.0	92.7	133.3	179.7	185.5	185.5	179.7	185.5	173.9
87.5°	0.0	0.0	11.6	11.6	11.6	17.4	23.2	17.4	29.0	34.8	34.8
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°	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1	17527.1
2.5°	17370.6	17306.9	17109.8	16935.9	16883.8	16651.9	16310.0	16350.5	16101.3	16217.2	16095.5
5°	17133.0	16918.6	16414.3	16199.8	15637.6	15382.6	15208.7	14774.0	14571.2	14530.6	14356.7
7.5°	16524.4	16391.1	15759.3	15179.7	14582.8	14072.7	13417.8	12971.5	12652.7	12565.7	12310.7
10°	16043.4	15747.8	14872.6	13991.6	13139.6	12252.8	11400.8	10734.2	10409.6	10032.9	9905.4
12.5°	15568.1	15121.8	13939.4	12809.2	11707.9	10589.3	9557.6	8746.2	8039.1	7871.0	7813.0
15°	15272.5	14495.8	13104.8	11742.7	10177.8	8717.2	7685.5	7152.3	6717.6	6537.9	6665.4
17.5°	14884.2	13980.0	12304.9	10490.8	8769.4	7424.7	6561.1	6230.7	6074.2	6091.6	6039.4
20°	14397.3	13493.1	11255.9	9354.8	7511.6	6439.4	5946.7	5825.0	5848.2	5888.7	5871.4
22.5°	14049.5	12901.9	10496.6	8195.6	6491.5	5894.5	5691.7	5604.7	5680.1	5714.9	5685.9
25°	13782.9	12397.7	9575.0	7169.7	5900.3	5587.4	5494.6	5488.8	5604.7	5651.1	5622.1
27.5°	13539.5	11928.2	8659.2	6387.2	5506.2	5349.7	5320.7	5390.3	5465.6	5512.0	5552.6
30°	13394.6	11568.8	7801.4	5732.3	5309.1	5233.8	5181.6	5245.4	5286.0	5332.3	5309.1
32.5°	13533.7	11313.8	6972.6	5361.3	5146.9	5071.5	5141.1	5100.5	5170.0	5210.6	5146.9
35°	13968.4	11087.8	6381.4	5164.2	4961.4	4990.4	5002.0	4984.6	5013.5	4978.8	5054.1
37.5°	14397.3	11006.6	5836.6	4996.2	4874.4	4874.4	4862.9	4828.1	4886.0	4874.4	4909.2
40°	14942.1	11058.8	5372.9	4816.5	4793.3	4781.7	4735.3	4729.5	4706.4	4712.2	4723.7
42.5°	15417.4	11174.7	5106.3	4700.6	4718.0	4741.1	4654.2	4584.6	4613.6	4555.7	4555.7
45°	15921.6	11279.0	4868.6	4619.4	4602.0	4596.2	4526.7	4486.1	4462.9	4468.7	4520.9
47.5°	16715.7	11429.7	4689.0	4509.3	4520.9	4433.9	4416.6	4364.4	4387.6	4422.4	4428.2
50°	17277.9	11748.5	4549.9	4381.8	4422.4	4364.4	4260.1	4236.9	4236.9	4294.8	4283.3
52.5°	17672.0	12194.8	4416.6	4242.7	4260.1	4213.7	4178.9	4126.8	4092.0	4173.1	4213.7
55°	18877.6	12936.7	4381.8	4126.8	4121.0	4074.6	4010.8	3958.7	3941.3	3952.9	4034.0
57.5°	18761.7	12704.9	4271.7	3923.9	3912.3	3848.6	3784.8	3767.4	3761.6	3773.2	3796.4
60°	15231.9	9383.7	3813.8	3692.1	3674.7	3663.1	3599.3	3529.8	3495.0	3529.8	3500.8
62.5°	10079.3	6282.9	3361.7	3413.8	3425.4	3396.5	3292.1	3222.6	3234.2	3274.7	3211.0
65°	4949.8	3692.1	3048.7	3187.8	3199.4	3118.3	3019.7	2938.6	2898.0	2932.8	2903.8
67.5°	2828.5	2822.7	2793.7	2938.6	2932.8	2851.6	2695.1	2625.6	2556.0	2567.6	2550.2
70°	2399.5	2445.9	2503.9	2590.8	2585.0	2492.3	2306.8	2254.6	2156.1	2144.5	2115.5
72.5°	1889.5	1970.6	2098.2	2161.9	2109.7	1993.8	1872.1	1785.2	1698.2	1646.1	1663.5
75°	1402.6	1518.6	1588.1	1628.7	1547.5	1483.8	1385.2	1280.9	1176.6	1130.2	1112.8
77.5°	1020.1	1054.9	1118.6	1147.6	1095.4	1031.7	973.7	869.4	770.9	707.1	689.7
80°	712.9	736.1	782.5	782.5	782.5	753.5	678.1	573.8	510.0	452.1	440.5
82.5°	498.5	521.6	568.0	544.8	539.0	504.3	457.9	376.7	307.2	266.6	255.0
85°	173.9	191.3	231.8	278.2	295.6	289.8	260.8	208.7	162.3	133.3	121.7
87.5°	40.6	40.6	46.4	40.6	40.6	46.4	40.6	40.6	40.6	29.0	23.2
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)