

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: P534016

Luminaire Tested: **GALN-SA9C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
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-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45445 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

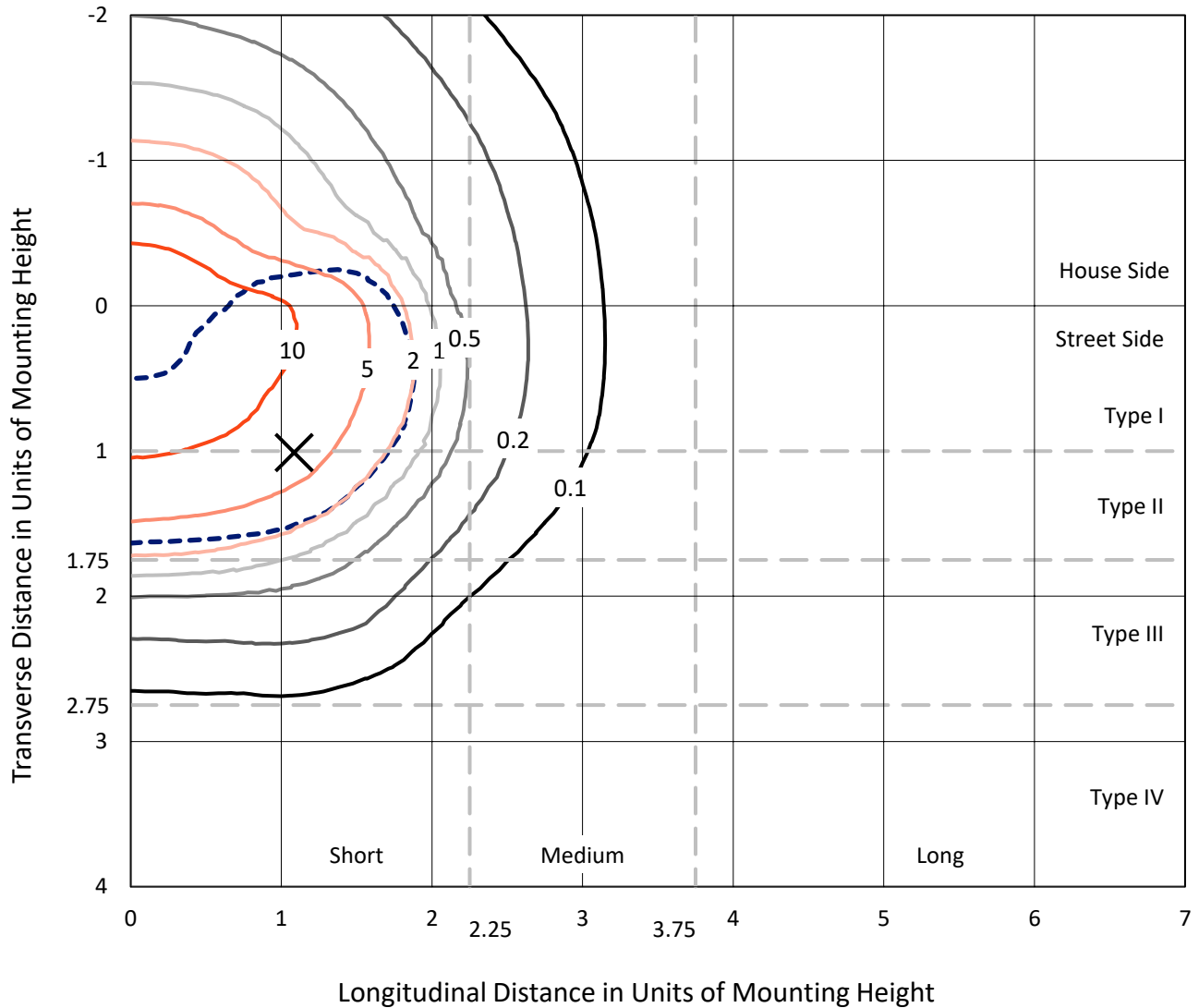
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

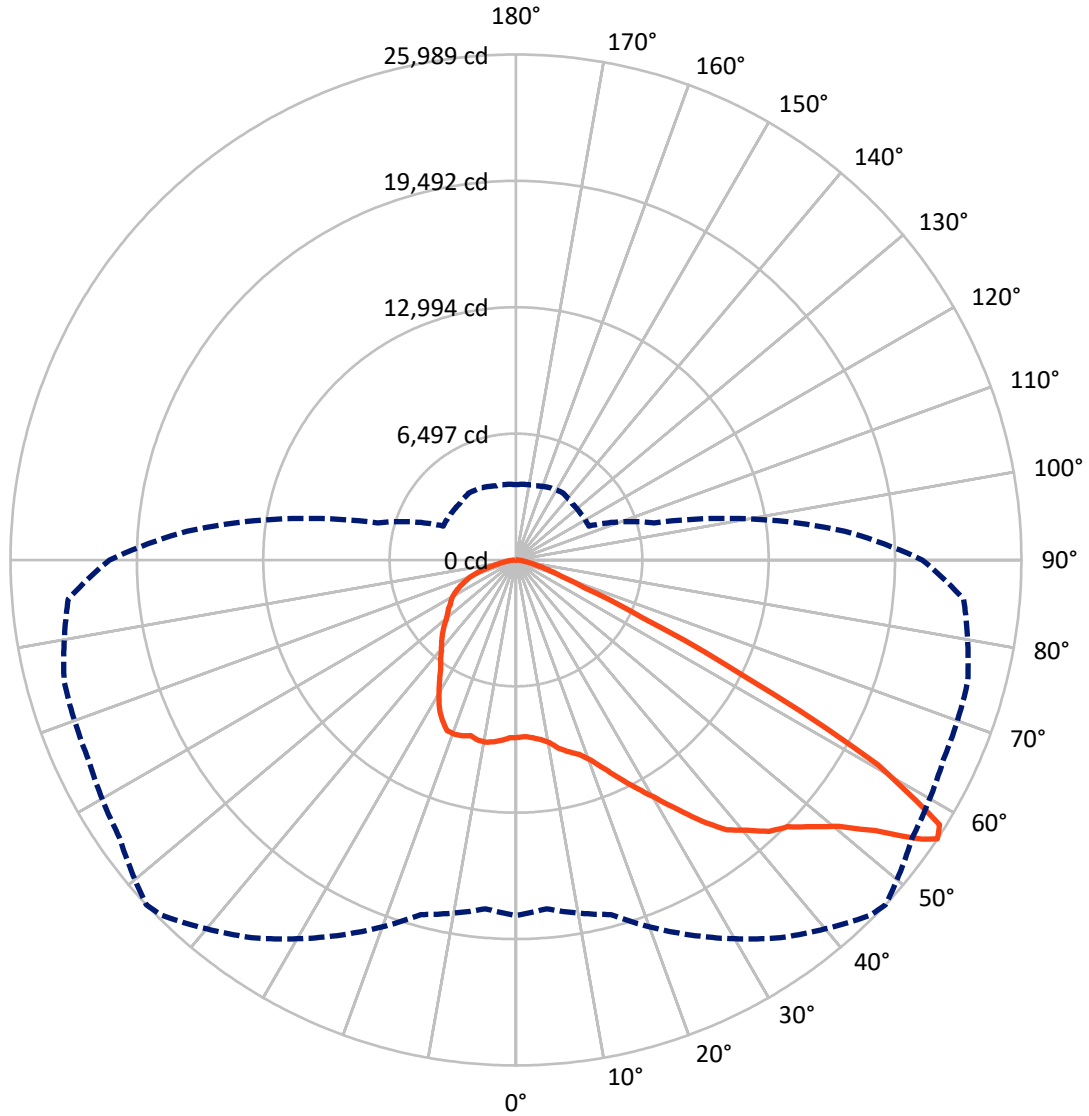
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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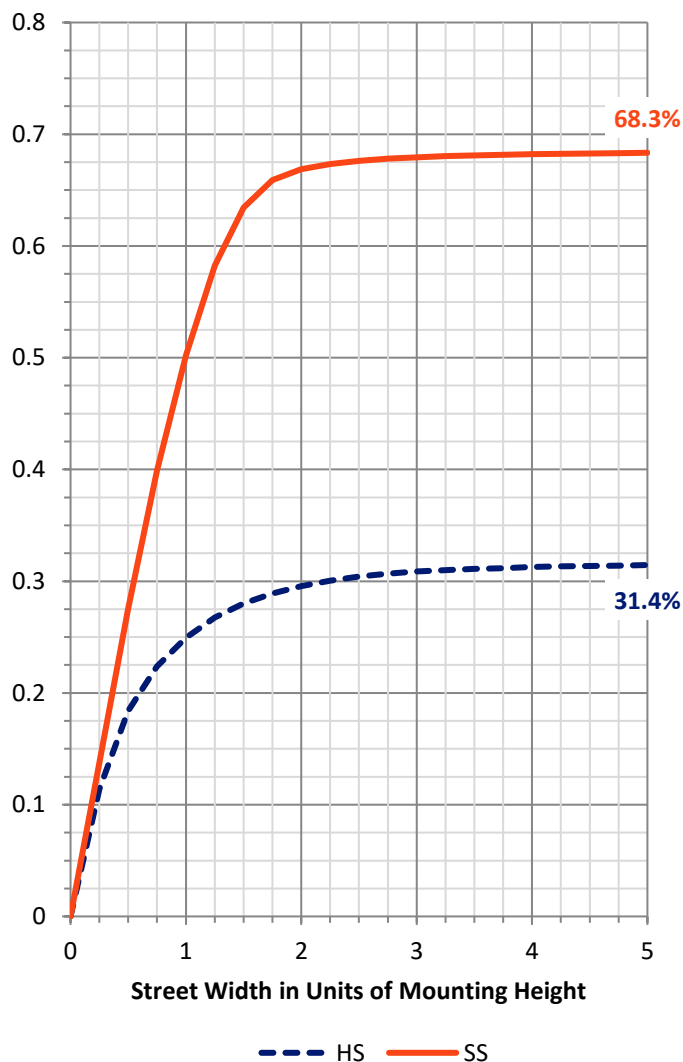
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14401.0	0.0	14401.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	31044.0	0.0	31044.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	45445.0	0.0	45445.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	889.5	2.0
10°-20°	2805.8	6.2
20°-30°	4959.9	10.9
30°-40°	7449.6	16.4
40°-50°	10223.9	22.5
50°-60°	12180.4	26.8
60°-70°	5212.5	11.5
70°-80°	1475.1	3.2
80°-90°	248.3	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°	45445.0	100.0
0°-180°	45445.0	100.0

**Coefficient of Utilization**

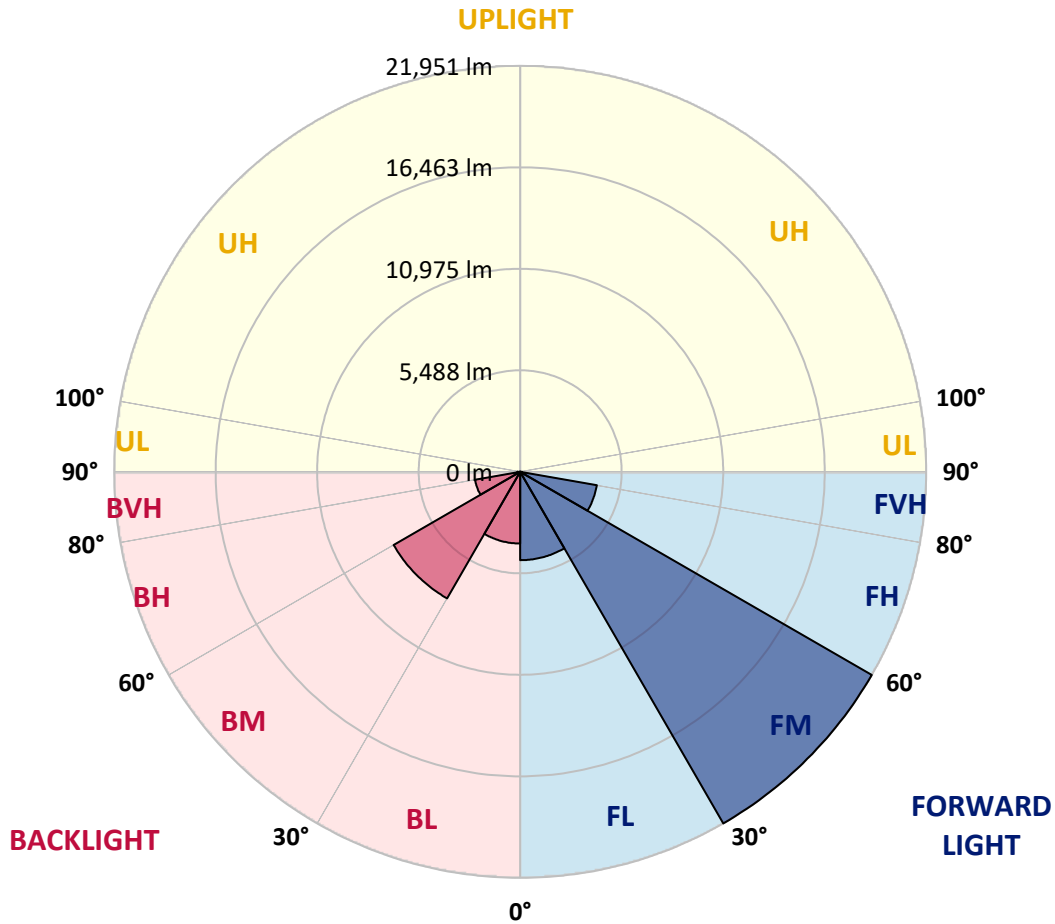


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4777.8	10.5			
FM (30°-60°)	21951.0	48.3			
FH (60°-80°)	4209.9	9.3			G2/5000
FVH (80°-90°)	105.4	0.2			G2/225
BL (0°-30°)	3877.3	8.5	B4/5000		
BM (30°-60°)	7903.0	17.4	B4/8500		
BH (60°-80°)	2477.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	142.9	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°	47°	55°	65°	75°	85°
0°	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5
2.5°	9093.7	9076.4	9064.8	9157.5	9122.7	9128.5	9093.7	9128.5	9151.7	9099.5	9174.9
5°	9076.4	9128.5	9082.2	9111.1	9186.5	9163.3	9186.5	9256.0	9238.6	9221.3	9198.1
7.5°	9238.6	9244.4	9279.2	9290.8	9314.0	9290.8	9325.6	9389.3	9371.9	9273.4	9285.0
10°	9470.5	9482.1	9487.9	9551.6	9592.2	9598.0	9557.4	9499.5	9493.7	9627.0	9534.2
12.5°	9737.1	9708.1	9777.7	9800.8	9847.2	9899.4	9951.5	9829.8	9905.2	9911.0	9800.8
15°	10125.4	10154.4	10073.2	10073.2	10090.6	10096.4	10241.3	10183.4	10171.8	10108.0	10154.4
17.5°	10705.0	10507.9	10502.1	10421.0	10409.4	10455.8	10507.9	10554.3	10710.8	10583.3	10334.1
20°	11128.1	11174.5	11006.4	10907.9	10925.2	11029.6	10977.4	11186.1	11296.2	11087.5	10844.1
22.5°	11875.8	11719.3	11759.9	11539.6	11557.0	11667.1	11661.3	11875.8	11939.5	11609.2	11255.6
25°	12380.0	12339.4	12374.2	12200.3	12223.5	12310.5	12449.6	12803.1	12698.8	12333.6	11516.4
27.5°	13116.1	13034.9	13006.0	12942.2	12919.0	13150.9	13313.1	13689.9	13614.5	13081.3	11980.1
30°	13869.6	13817.4	13846.4	13585.6	13678.3	14170.9	14217.3	14733.1	14698.4	13759.4	12495.9
32.5°	14391.2	14420.2	14472.3	14327.4	14738.9	15133.1	15289.5	15874.9	15903.9	14924.4	13492.8
35°	15231.6	15133.1	15162.0	15330.1	15521.4	16240.1	16495.1	16883.4	17126.8	16147.3	14449.1
37.5°	15759.0	15863.3	15741.6	16008.2	16506.7	17370.3	17602.1	18002.0	18257.0	17352.9	15753.2
40°	16582.0	16413.9	16500.9	16692.2	17202.2	18326.6	18262.8	18674.3	18755.5	18378.8	16970.4
42.5°	17468.8	17387.7	17265.9	17700.6	18129.5	18946.7	19074.3	18883.0	19294.5	19381.4	18709.1
45°	18529.4	18628.0	18645.4	18657.0	19033.7	19746.6	19572.7	19404.6	19879.9	20511.6	19787.2
47.5°	19514.7	19201.8	19427.8	19740.8	20274.0	20279.8	20482.7	20082.7	20587.0	21149.2	20760.9
50°	19845.1	19694.4	19995.8	20587.0	21410.0	21496.9	21520.1	20952.1	21212.9	21659.2	21097.0
52.5°	19717.6	19665.4	20436.3	21352.0	22557.6	22998.1	23114.0	22412.7	22557.6	22354.7	21838.9
55°	19109.0	19265.5	20042.2	21908.4	23757.3	25119.4	25339.6	24452.8	23531.3	23687.8	23119.8
56°	18274.4	18002.0	18871.4	21276.7	23705.2	25809.1	25988.8	24881.7	24255.8	24052.9	23108.2
57.5°	15504.0	15150.4	16292.2	19143.8	22389.5	25548.3	25681.6	25061.4	24134.1	23722.6	21421.6
60°	9076.4	9250.2	10699.2	13203.0	17271.7	20946.3	21392.6	21844.7	21224.5	19381.4	15944.5
62.5°	4381.7	4271.6	5309.0	7569.4	10525.3	13371.1	13237.8	14507.1	15202.6	13771.0	10067.5
65°	2295.2	2283.6	2897.9	4132.5	5784.3	7024.6	7146.3	7830.2	8786.6	7094.2	5112.0
67.5°	1686.6	1733.0	2040.2	2903.7	3721.0	3796.3	3778.9	4120.9	4213.6	3564.5	3141.4
70°	1321.5	1344.6	1570.7	2208.2	2770.4	2480.6	2428.5	2469.0	2741.5	2857.4	2718.3
72.5°	956.3	979.5	1170.8	1489.5	1733.0	1692.4	1727.2	1953.2	2289.4	2411.1	2266.2
75°	637.5	654.9	759.3	910.0	1025.9	1107.0	1170.8	1431.6	1744.6	1814.1	1744.6
77.5°	440.5	457.9	527.4	643.3	654.9	707.1	730.3	852.0	1043.3	1130.2	1083.8
80°	249.2	249.2	284.0	330.4	405.7	475.3	486.9	585.4	672.3	730.3	741.9
82.5°	115.9	121.7	150.7	202.9	266.6	330.4	342.0	405.7	469.5	527.4	544.8
85°	58.0	63.8	86.9	121.7	162.3	197.1	191.3	197.1	208.7	197.1	202.9
87.5°	17.4	17.4	23.2	29.0	23.2	29.0	29.0	34.8	40.6	46.4	52.2
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°	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5	9128.5
2.5°	9180.7	9198.1	9082.2	9192.3	9151.7	9145.9	9227.0	9215.5	9244.4	9232.8	9163.3
5°	9186.5	9145.9	9267.6	9157.5	9209.7	9319.8	9244.4	9418.3	9331.4	9389.3	9261.8
7.5°	9366.2	9377.7	9354.6	9400.9	9377.7	9429.9	9389.3	9429.9	9360.4	9366.2	9482.1
10°	9522.6	9487.9	9528.4	9470.5	9511.0	9493.7	9400.9	9371.9	9395.1	9366.2	9441.5
12.5°	9812.4	9748.7	9719.7	9650.1	9603.8	9429.9	9285.0	9203.9	9314.0	9331.4	9296.6
15°	10108.0	10113.8	9980.5	9824.0	9534.2	9273.4	9308.2	9337.2	9337.2	9383.5	9296.6
17.5°	10293.5	10293.5	10171.8	9858.8	9563.2	9412.5	9377.7	9285.0	9203.9	9192.3	9186.5
20°	10618.1	10519.5	10241.3	9853.0	9551.6	9482.1	9221.3	9001.0	8832.9	8775.0	8769.2
22.5°	10989.0	10739.8	10351.5	9864.6	9534.2	9435.7	8948.8	8618.5	8317.1	8189.6	8207.0
25°	11331.0	10931.0	10415.2	9812.4	9470.5	8995.2	8450.4	7992.5	7679.5	7575.2	7523.1
27.5°	11568.6	11133.9	10415.2	9858.8	9232.8	8502.6	7946.2	7360.8	7088.4	7018.8	7030.4
30°	11887.4	11388.9	10594.9	9760.3	8757.6	7865.0	7198.5	6816.0	6653.7	6595.7	6636.3
32.5°	12635.0	12055.4	10844.1	9522.6	8195.4	7227.5	6688.5	6474.0	6236.4	6120.5	6079.9
35°	13446.5	12687.2	11087.5	9122.7	7563.6	6647.9	6311.7	6114.7	5830.7	5703.2	5726.3
37.5°	14594.0	13498.6	11104.9	8462.0	6879.7	6323.3	6016.1	5708.9	5477.1	5280.1	5222.1
40°	16141.5	14605.6	11064.3	7766.5	6329.1	5940.8	5714.7	5332.2	5071.4	4932.3	4961.3
42.5°	17503.6	15903.9	10896.3	6978.2	5830.7	5680.0	5424.9	5048.2	4793.2	4648.3	4636.7
45°	18651.2	16860.2	10577.5	6305.9	5413.4	5390.2	5094.6	4804.8	4601.9	4468.6	4526.6
47.5°	19711.8	17631.1	10096.4	5633.6	5030.8	5077.2	4793.2	4613.5	4486.0	4364.3	4358.5
50°	20094.3	17619.5	9673.3	5077.2	4723.6	4700.5	4688.9	4497.6	4364.3	4260.0	4306.3
52.5°	20731.9	17816.6	9215.5	4694.7	4445.4	4451.2	4491.8	4352.7	4202.0	4138.3	4196.2
55°	21647.6	17845.5	8207.0	4248.4	4213.6	4254.2	4254.2	4161.4	4033.9	3981.8	3952.8
56°	20900.0	16981.9	7360.8	4132.5	4097.7	4097.7	4207.8	4103.5	3947.0	3906.4	3871.7
57.5°	19277.1	14878.0	6161.0	3993.4	3941.2	4022.3	4080.3	3970.2	3825.3	3767.3	3802.1
60°	13295.8	10067.5	4630.9	3692.0	3692.0	3825.3	3871.7	3709.4	3645.6	3639.8	3593.4
62.5°	7760.7	5865.4	3622.4	3419.6	3431.2	3541.3	3576.1	3483.3	3402.2	3500.7	3547.1
65°	4115.1	3500.7	3106.6	3129.8	3135.6	3222.5	3373.2	3367.4	3361.6	3390.6	3396.4
67.5°	2979.1	2909.5	2822.6	2799.4	2811.0	2874.8	3025.5	3141.4	3135.6	3066.0	3013.9
70°	2654.5	2556.0	2503.8	2509.6	2463.3	2538.6	2660.3	2735.7	2602.4	2521.2	2486.4
72.5°	2208.2	2179.3	2144.5	2150.3	2057.5	2040.2	1901.1	1901.1	1866.3	1843.1	1883.7
75°	1686.6	1675.0	1692.4	1663.4	1564.9	1460.6	1379.4	1304.1	1188.2	1141.8	1118.6
77.5°	1066.4	1101.2	1141.8	1078.0	1037.5	962.1	881.0	805.6	712.9	660.7	660.7
80°	724.5	753.5	782.4	770.9	724.5	654.9	591.2	510.0	446.3	405.7	399.9
82.5°	550.6	573.8	614.4	568.0	521.6	463.7	411.5	353.5	295.6	249.2	249.2
85°	197.1	226.0	249.2	272.4	289.8	295.6	255.0	208.7	168.1	133.3	127.5
87.5°	52.2	58.0	63.8	58.0	58.0	58.0	63.8	58.0	52.2	40.6	40.6
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)