

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: P527915

Luminaire Tested: **GALN-SA3A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8517 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

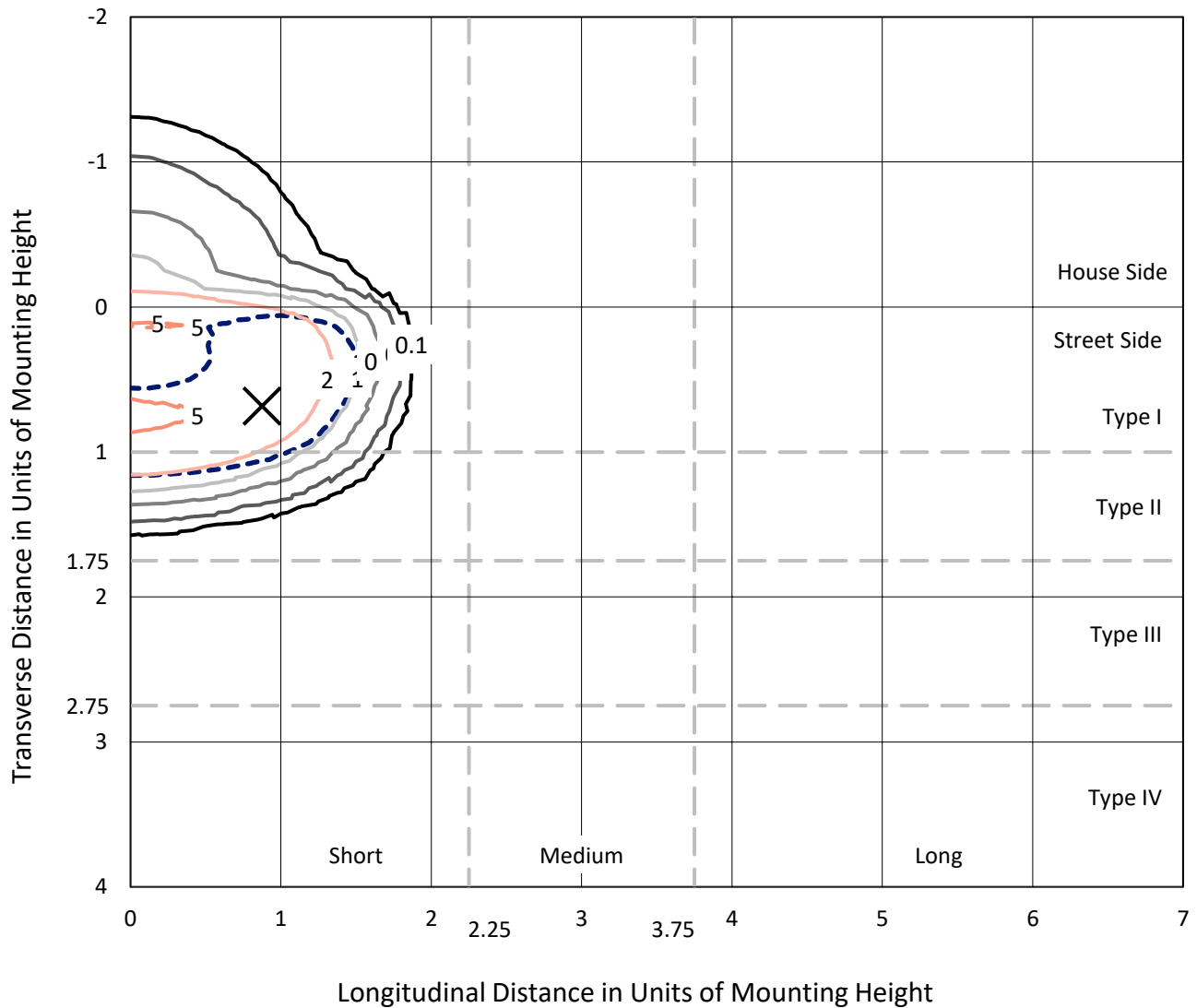
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

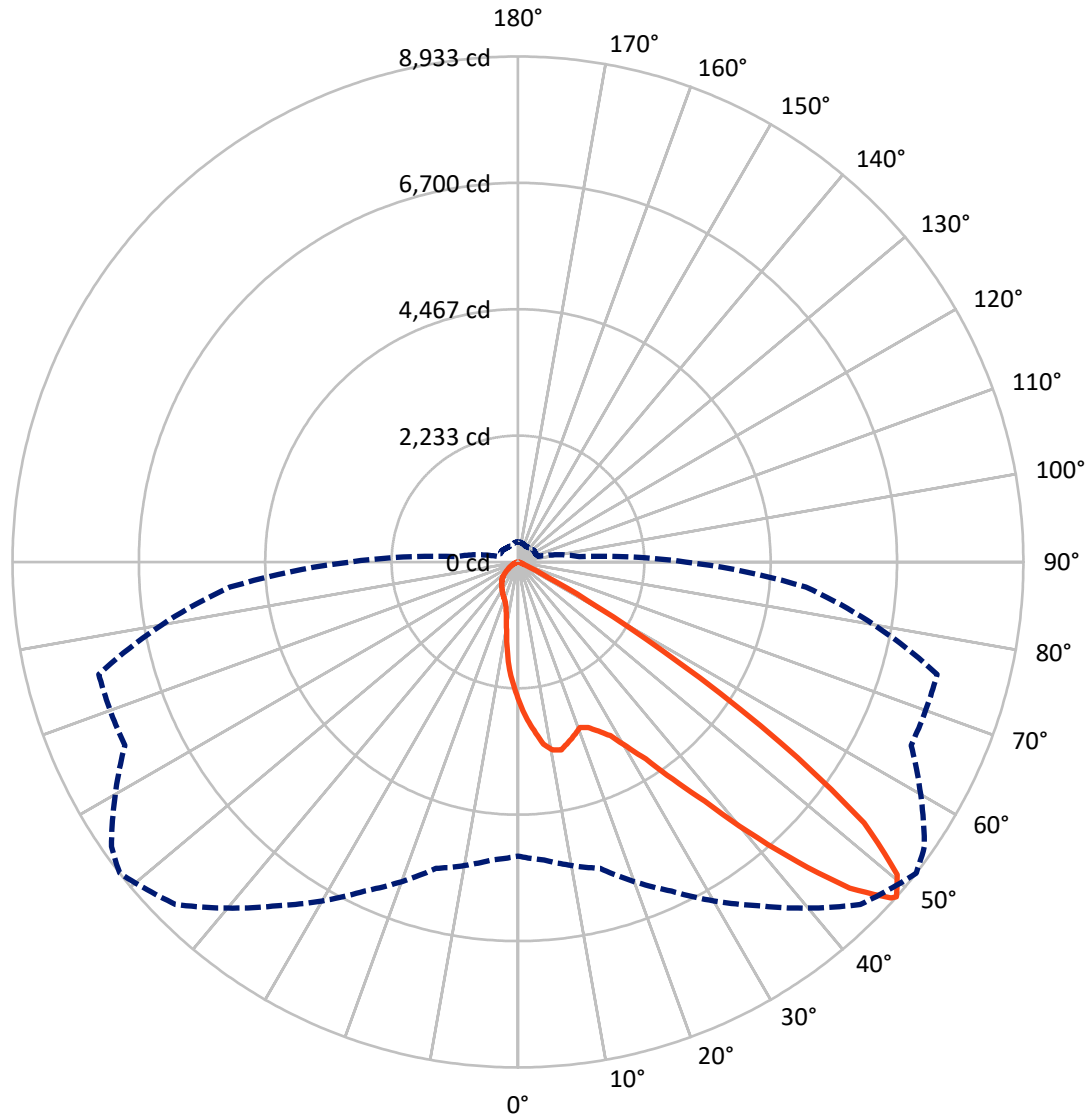
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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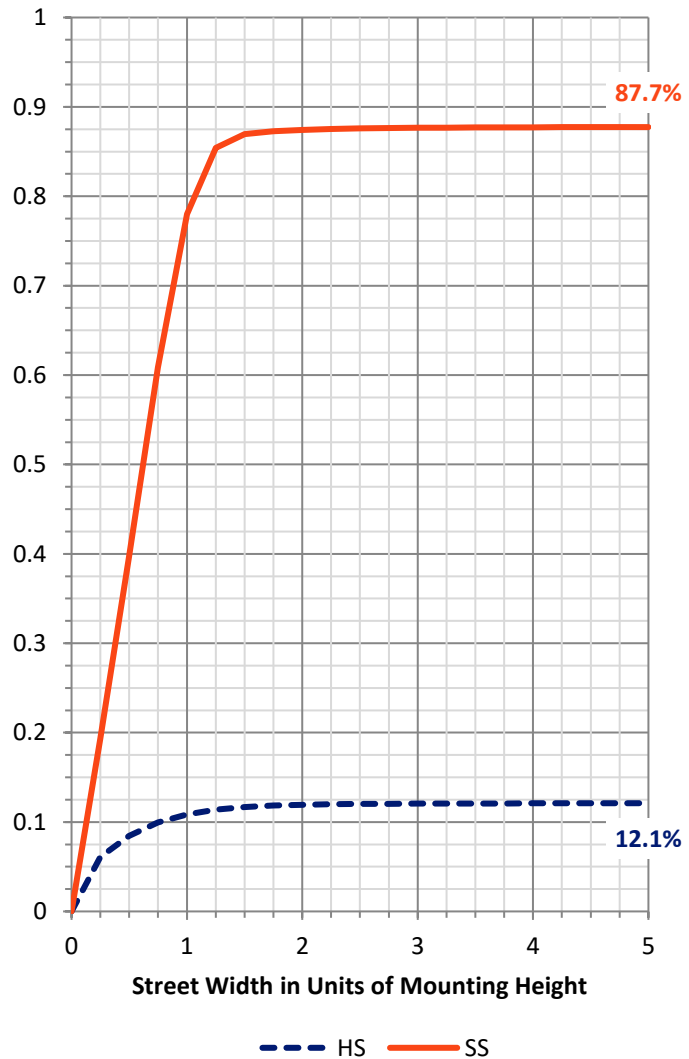
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1037.0	0.0	1037.0
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	7480.0	0.0	7480.0
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	8517.0	0.0	8517.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.1	2.6
10°-20°	588.3	6.9
20°-30°	1004.5	11.8
30°-40°	1849.8	21.7
40°-50°	2872.7	33.7
50°-60°	1728.9	20.3
60°-70°	200.0	2.3
70°-80°	38.7	0.5
80°-90°	8.9	0.1
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°	8517.0	100.0
0°-180°	8517.0	100.0

**Coefficient of Utilization**



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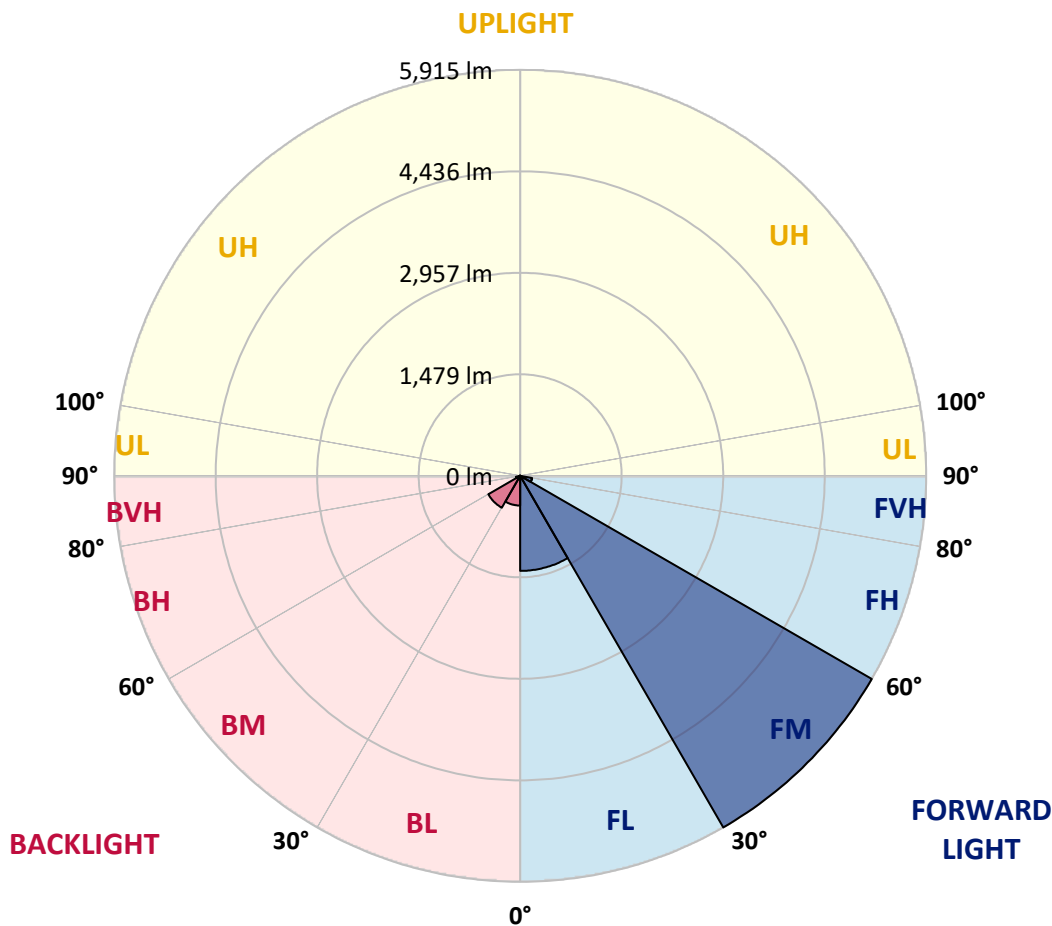
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.8	16.3			
FM (30°-60°)	5914.9	69.4			
FH (60°-80°)	176.1	2.1			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	433.2	5.1	B1/500		
BM (30°-60°)	536.5	6.3	B1/1000		
BH (60°-80°)	62.6	0.7	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2981.0	2912.7	2919.0	2874.3	2848.2	2806.0	2748.9	2737.7	2675.6	2591.2	2505.5
5°	3249.2	3233.1	3254.2	3189.6	3192.1	3122.6	2988.5	2991.0	2848.2	2710.4	2577.5
7.5°	3266.6	3229.3	3250.5	3307.6	3341.1	3328.7	3252.9	3187.1	3051.8	2849.4	2655.7
10°	2925.2	2995.9	3018.3	3112.6	3246.7	3388.3	3379.6	3383.3	3270.3	3005.9	2722.8
12.5°	2720.3	2673.1	2748.9	2806.0	3008.3	3282.7	3408.1	3435.4	3444.1	3157.3	2789.8
15°	2627.2	2627.2	2639.6	2655.7	2802.2	3055.5	3311.3	3390.8	3578.2	3356.0	2895.4
17.5°	2685.5	2683.1	2700.4	2666.9	2721.5	2916.5	3221.9	3312.5	3728.5	3550.9	2978.5
20°	2863.1	2871.8	2860.6	2763.8	2767.5	2914.0	3122.6	3265.4	3830.3	3719.8	3089.0
22.5°	3110.2	3115.1	3051.8	2946.3	2915.2	2987.2	3179.7	3288.9	3912.2	3922.1	3122.6
25°	3395.7	3375.9	3363.4	3214.4	3120.1	3182.2	3308.8	3372.1	3963.1	4096.0	3218.2
27.5°	3791.8	3752.1	3676.3	3543.5	3473.9	3385.8	3476.4	3580.7	4108.4	4339.3	3322.5
30°	4376.6	4341.8	4194.1	4022.7	3840.2	3753.3	3781.8	3839.0	4370.4	4621.2	3460.3
32.5°	5256.8	5183.6	4970.0	4643.5	4395.2	4155.6	4148.1	4209.0	4605.0	5011.0	3624.2
35°	6226.5	6204.2	5890.1	5553.6	5073.1	4703.1	4709.3	4741.6	5054.5	5522.5	3839.0
37.5°	6870.9	6993.8	6793.9	6432.6	6029.1	5500.2	5366.1	5377.3	5671.5	6128.4	4226.3
40°	7368.8	7264.5	7288.1	7203.6	6928.0	6568.0	6271.2	6212.9	6385.4	6798.9	4611.2
42.5°	7151.5	7156.5	7301.7	7501.6	7569.9	7543.8	7240.9	7130.4	6996.3	7347.7	4977.5
45°	6538.2	6666.0	6854.8	7383.7	7848.0	8283.8	8224.2	8040.5	7418.4	7782.2	5188.6
47.5°	5559.8	5554.8	5864.0	6551.8	7583.6	8604.1	8874.8	8745.7	7717.7	7733.8	5145.1
48°	5198.5	5287.9	5607.0	6416.5	7416.0	8557.0	8933.2	8770.5	7666.8	7669.2	5107.9
50°	3842.7	3826.5	4223.9	5217.1	6623.8	8040.5	8687.3	8814.0	7665.5	7342.7	4847.1
52.5°	2030.0	2099.5	2388.8	3280.3	4683.2	6580.4	7663.0	7860.4	7394.8	6808.8	4472.2
55°	862.9	779.7	1002.0	1481.2	2634.6	4396.4	5621.9	6061.4	6252.6	6025.4	3912.2
57.5°	307.9	336.5	387.4	557.5	1107.5	2406.2	3352.3	3693.7	4331.9	4421.3	2665.7
60°	197.4	201.1	217.3	255.8	415.9	927.5	1590.5	1862.4	2151.7	2221.2	1244.1
62.5°	152.7	154.0	161.4	167.6	197.4	360.1	597.2	707.7	735.0	632.0	326.5
65°	127.9	129.1	131.6	131.6	140.3	168.9	208.6	229.7	223.5	221.0	185.0
67.5°	98.1	100.6	105.5	105.5	110.5	103.1	115.5	122.9	139.1	168.9	157.7
70°	77.0	78.2	81.9	84.4	84.4	74.5	83.2	90.6	101.8	125.4	124.2
72.5°	59.6	62.1	64.6	64.6	60.8	50.9	59.6	65.8	73.3	86.9	84.4
75°	45.9	45.9	47.2	38.5	29.8	26.1	36.0	43.5	54.6	57.1	47.2
77.5°	12.4	13.7	12.4	11.2	12.4	18.6	23.6	27.3	34.8	34.8	31.0
80°	0.0	1.2	3.7	7.4	12.4	17.4	21.1	23.6	27.3	29.8	28.6
82.5°	0.0	1.2	3.7	7.4	11.2	13.7	18.6	19.9	22.3	26.1	26.1
85°	0.0	1.2	2.5	5.0	7.4	8.7	8.7	7.4	7.4	6.2	5.0
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7
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°	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6	2459.6
2.5°	2472.0	2433.5	2375.1	2283.3	2195.1	2138.0	2083.4	2022.5	1989.0	1986.5	1967.9
5°	2501.8	2414.9	2275.8	2118.1	1949.3	1804.0	1657.5	1561.9	1476.2	1429.1	1420.4
7.5°	2517.9	2404.9	2180.2	1915.8	1627.7	1390.6	1226.7	1106.2	1059.1	1024.3	1023.1
10°	2551.4	2387.6	2037.4	1647.6	1291.2	1051.6	938.6	884.0	857.9	848.0	833.1
12.5°	2576.3	2355.3	1890.9	1371.9	1020.6	871.6	821.9	809.5	810.8	815.7	809.5
15°	2611.0	2326.7	1693.5	1126.1	856.7	784.7	784.7	787.2	804.5	807.0	805.8
17.5°	2608.6	2270.8	1489.9	927.5	757.4	747.4	751.2	774.7	785.9	789.6	781.0
20°	2638.4	2218.7	1280.1	792.1	701.5	716.4	741.2	747.4	761.1	763.6	753.6
22.5°	2629.7	2088.3	1085.1	685.4	659.3	687.8	712.7	720.1	716.4	708.9	707.7
25°	2613.5	1976.6	906.4	614.6	628.2	659.3	682.9	669.2	661.8	663.0	664.2
27.5°	2585.0	1835.1	758.6	564.9	586.0	632.0	630.7	625.8	633.2	627.0	633.2
30°	2580.0	1693.5	636.9	520.2	555.0	588.5	591.0	599.7	608.4	597.2	608.4
32.5°	2587.5	1538.3	550.0	492.9	536.4	537.6	564.9	573.6	567.4	542.6	545.1
35°	2644.6	1419.1	486.7	478.0	506.6	507.8	533.9	522.7	495.4	480.5	489.2
37.5°	2765.0	1319.8	456.9	464.4	466.8	483.0	484.2	461.9	464.4	463.1	468.1
40°	2919.0	1244.1	435.8	451.9	449.5	460.6	415.9	428.3	439.5	443.2	445.7
42.5°	3024.5	1189.4	422.1	432.1	427.1	407.2	382.4	394.8	403.5	417.2	419.7
45°	3071.7	1146.0	406.0	397.3	397.3	361.3	351.4	353.9	373.7	388.6	386.1
47.5°	2994.7	1103.8	377.4	351.4	360.1	330.3	319.1	319.1	340.2	358.8	355.1
48°	2964.9	1086.4	378.7	341.4	347.6	325.3	314.1	311.6	335.2	352.6	352.6
50°	2817.1	1021.8	346.4	314.1	301.7	299.2	291.8	294.3	309.2	325.3	325.3
52.5°	2529.1	882.8	293.0	269.4	247.1	262.0	265.7	260.7	268.2	283.1	281.8
55°	2110.7	677.9	234.7	223.5	206.1	222.2	229.7	223.5	216.0	227.2	227.2
57.5°	1352.1	365.0	187.5	190.0	172.6	188.7	194.9	180.0	166.4	175.1	173.8
60°	609.6	218.5	154.0	150.2	139.1	157.7	167.6	150.2	131.6	137.8	144.0
62.5°	228.5	155.2	116.7	114.2	111.7	129.1	134.1	120.4	101.8	105.5	106.8
65°	167.6	136.6	93.1	84.4	89.4	101.8	99.3	85.7	73.3	73.3	75.7
67.5°	142.8	119.2	75.7	65.8	65.8	67.0	62.1	54.6	50.9	53.4	55.9
70°	111.7	94.4	59.6	50.9	45.9	41.0	36.0	34.8	31.0	34.8	33.5
72.5°	72.0	63.3	45.9	38.5	34.8	28.6	23.6	22.3	18.6	17.4	17.4
75°	38.5	38.5	36.0	31.0	27.3	22.3	18.6	14.9	9.9	7.4	7.4
77.5°	27.3	29.8	32.3	29.8	24.8	18.6	14.9	9.9	5.0	2.5	2.5
80°	26.1	29.8	32.3	28.6	24.8	18.6	13.7	7.4	3.7	1.2	1.2
82.5°	23.6	27.3	29.8	26.1	22.3	16.1	12.4	7.4	3.7	1.2	1.2
85°	5.0	6.2	7.4	7.4	8.7	11.2	8.7	6.2	2.5	1.2	1.2
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2
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)