

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: P647786

Luminaire Tested: **GALN-SA2A-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4762.2 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

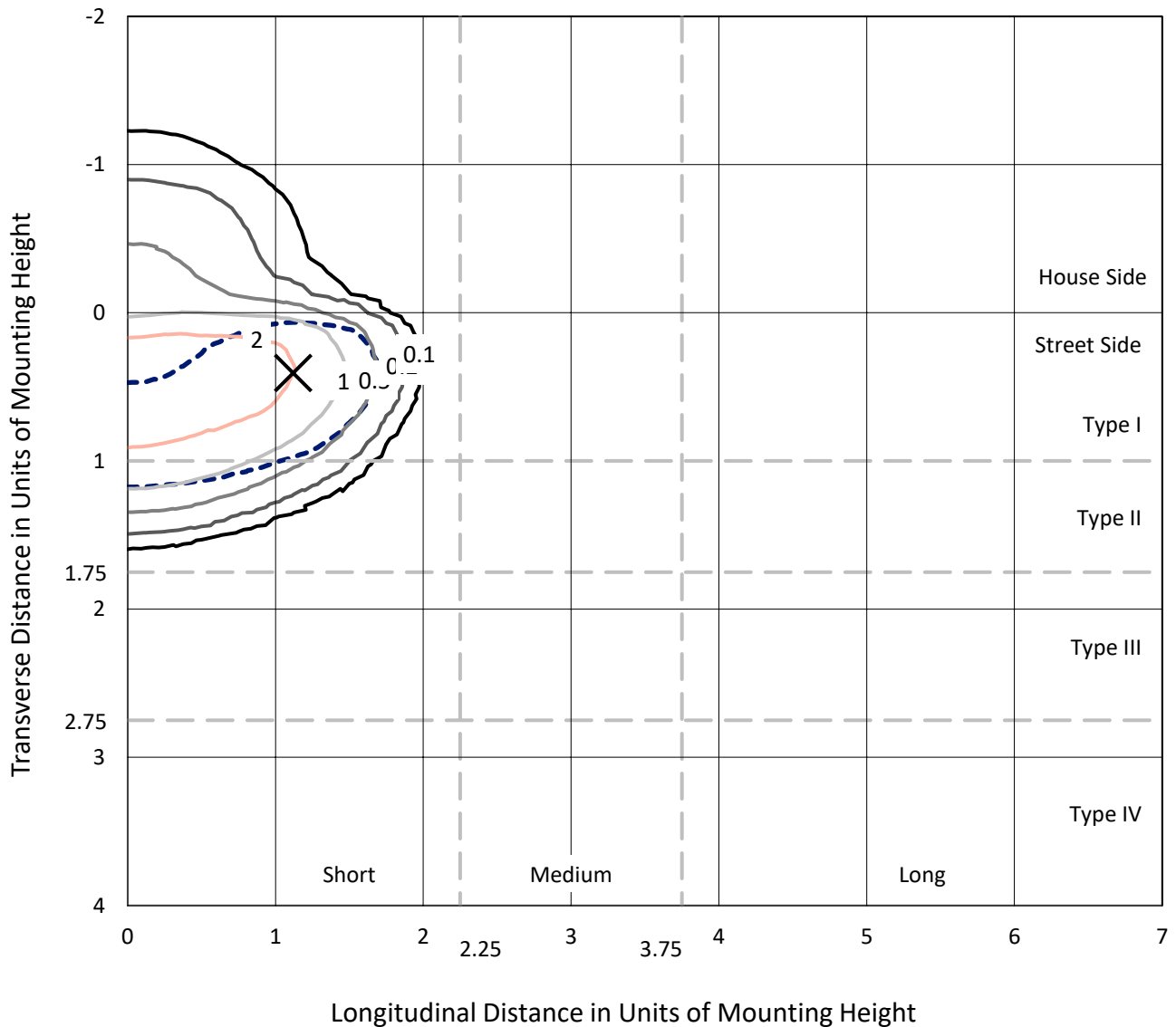
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

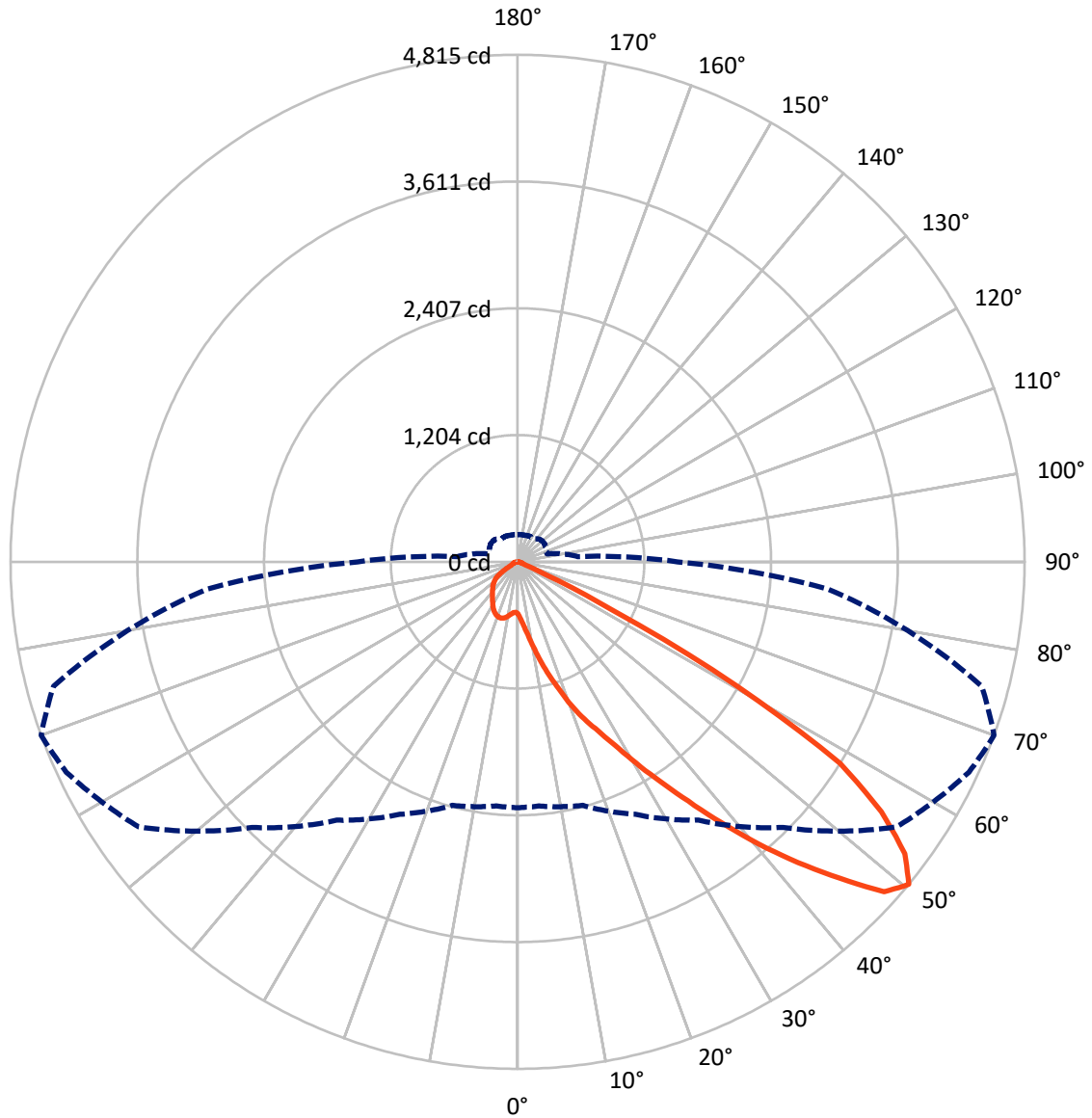
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical



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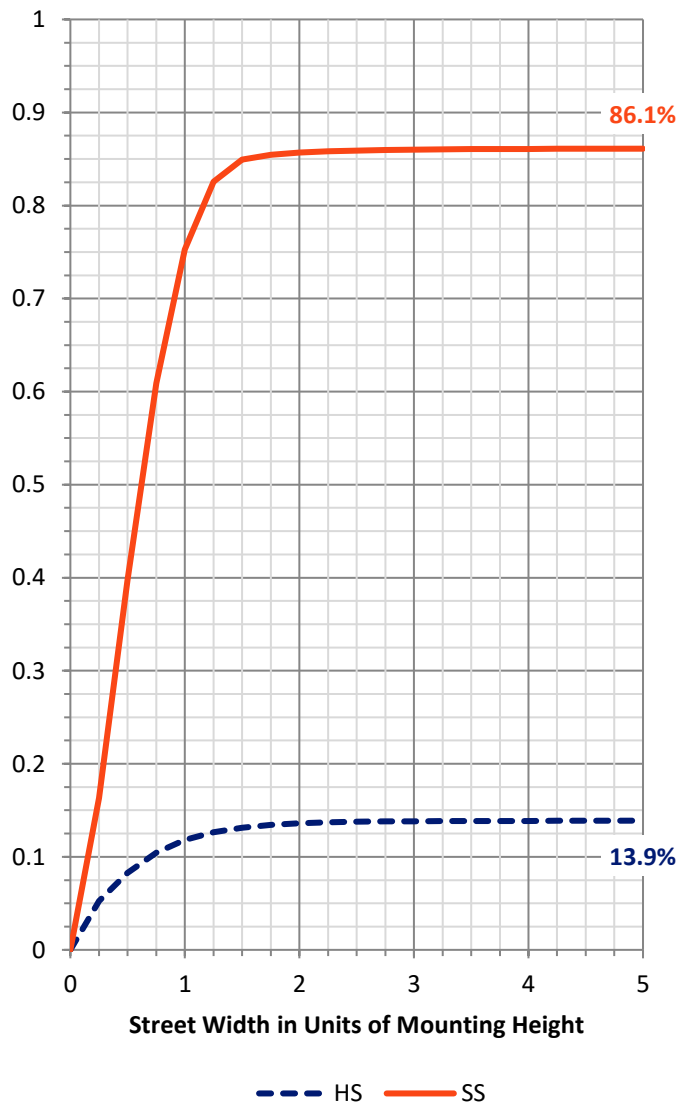
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	665.1	0.0	665.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4097.1	0.0	4097.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	4762.2	0.0	4762.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	1.3
10°-20°	277.5	5.8
20°-30°	582.1	12.2
30°-40°	1003.3	21.1
40°-50°	1466.3	30.8
50°-60°	1142.0	24.0
60°-70°	193.5	4.1
70°-80°	26.6	0.6
80°-90°	6.9	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°	4762.2	100.0
0°-180°	4762.2	100.0

**Coefficient of Utilization**

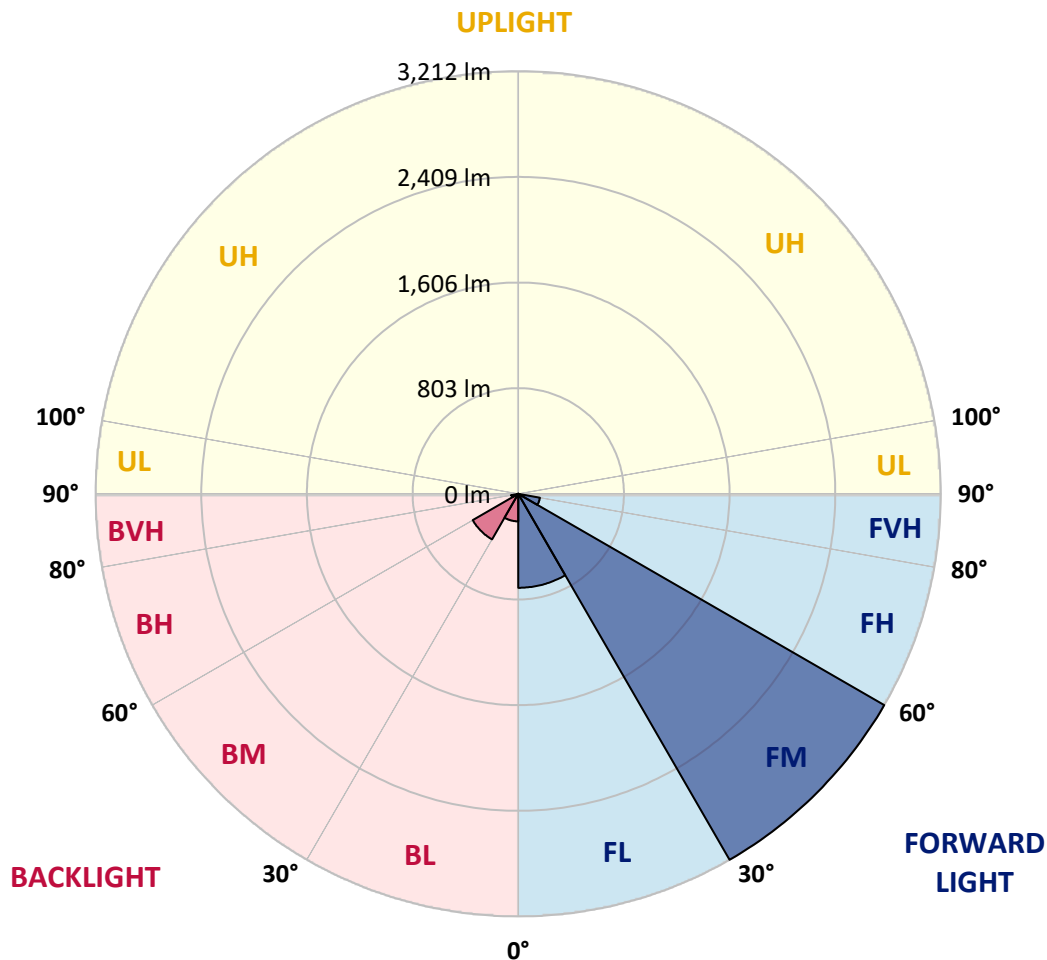


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.4	15.0			
FM (30°-60°)	3212.0	67.4			
FH (60°-80°)	167.5	3.5			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	209.3	4.4	B1/500		
BM (30°-60°)	399.6	8.4	B1/1000		
BH (60°-80°)	52.5	1.1	B0/110		G0/110
BVH (80°-90°)	3.7	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3
2.5°	646.0	641.3	631.1	612.3	604.5	585.7	574.7	553.6	540.3	525.4	509.0
5°	909.8	885.6	870.7	849.6	787.7	749.3	685.9	631.9	606.8	579.4	541.8
7.5°	1182.3	1166.6	1146.2	1100.8	1058.5	978.8	869.9	750.9	700.0	653.0	578.6
10°	1407.8	1363.9	1361.6	1327.9	1281.7	1186.2	1055.4	907.5	816.7	747.8	631.1
12.5°	1565.1	1525.2	1543.2	1539.3	1496.2	1408.5	1257.4	1061.7	967.0	859.7	685.1
15°	1708.4	1692.0	1686.5	1681.8	1664.6	1599.6	1464.1	1249.6	1112.6	983.4	746.2
17.5°	1848.6	1806.3	1826.7	1830.6	1829.0	1770.3	1643.4	1428.1	1266.8	1114.1	810.4
20°	1973.1	1977.0	1949.6	1944.1	1939.4	1937.1	1813.3	1605.1	1456.3	1251.2	894.2
22.5°	2132.8	2105.4	2129.7	2114.0	2083.5	2064.7	1969.9	1761.7	1620.7	1416.4	979.5
25°	2321.5	2343.4	2286.3	2280.0	2246.3	2181.4	2096.0	1937.1	1778.9	1569.8	1071.8
27.5°	2554.1	2515.7	2500.8	2466.4	2405.3	2377.9	2277.7	2117.9	1969.9	1731.1	1161.1
30°	2753.7	2743.6	2669.2	2628.5	2575.2	2574.4	2434.3	2363.0	2218.9	1984.0	1284.0
32.5°	2916.6	2872.0	2844.6	2816.4	2773.3	2785.1	2666.8	2629.2	2484.4	2218.9	1428.9
35°	3025.4	2993.3	2976.9	2933.8	2921.3	2973.8	2924.4	2908.8	2789.8	2549.4	1598.8
37.5°	3059.8	3070.0	3066.9	3012.8	3039.4	3181.2	3244.6	3203.9	3141.2	2897.8	1782.8
40°	3090.3	3097.4	3081.7	3145.2	3221.1	3382.4	3611.8	3544.5	3521.0	3250.9	2038.9
42.5°	3107.6	3102.1	3102.1	3211.7	3326.8	3651.0	3966.5	3921.9	3903.9	3626.7	2334.8
45°	3033.2	2980.0	3037.1	3185.9	3417.6	3783.3	4250.0	4311.8	4286.0	4073.8	2680.9
47.5°	2755.3	2788.2	2820.3	3019.1	3307.2	3742.6	4423.8	4634.4	4682.2	4449.6	2908.0
50°	2334.8	2327.8	2394.3	2644.9	2994.9	3567.2	4390.1	4727.6	4814.5	4562.4	2955.7
52.5°	1698.2	1749.9	1822.0	2071.0	2485.9	3113.1	3955.6	4487.2	4603.1	4423.8	2924.4
55°	988.9	931.8	1093.8	1304.4	1695.9	2348.1	3344.0	3977.5	4192.0	4171.7	2766.3
57.5°	396.2	383.7	439.3	591.9	884.8	1455.5	2431.9	3268.1	3611.8	3820.9	2431.1
60°	173.8	169.9	199.7	241.2	361.7	671.0	1330.2	2032.6	2391.2	2670.0	1673.2
62.5°	125.3	123.7	138.6	153.5	191.1	292.1	559.1	819.0	1021.0	1233.1	749.3
65°	101.0	104.9	115.1	122.9	140.9	162.1	197.3	227.9	279.5	289.7	165.2
67.5°	82.2	85.3	94.7	103.4	106.5	87.7	90.8	79.9	79.9	71.3	57.2
70°	60.3	61.1	72.0	82.2	65.8	35.2	61.9	61.9	55.6	53.2	48.5
72.5°	44.6	45.4	54.0	50.9	25.8	21.9	45.4	50.1	45.4	43.1	39.2
75°	32.9	33.7	28.2	11.7	11.0	14.1	26.6	34.5	32.9	32.1	29.8
77.5°	6.3	4.7	3.9	5.5	7.8	11.7	17.2	21.1	21.9	23.5	21.9
80°	0.8	0.8	2.3	4.7	8.6	12.5	18.0	20.4	21.1	21.9	20.4
82.5°	0.0	0.8	2.3	4.7	8.6	11.7	15.7	18.0	19.6	20.4	19.6
85°	0.0	0.8	1.6	3.9	7.0	8.6	7.8	5.5	4.7	5.5	3.9
87.5°	0.0	0.0	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.3
2.5°	499.6	496.4	485.5	473.7	463.5	468.2	463.5	459.6	461.2	459.6	458.1
5°	527.0	512.9	489.4	479.2	470.6	469.8	467.5	466.7	467.5	467.5	460.4
7.5°	552.8	530.1	505.0	494.1	483.9	484.7	479.2	479.2	478.4	474.5	472.9
10°	591.9	561.4	529.3	509.7	497.2	494.9	489.4	483.9	483.9	483.9	476.1
12.5°	635.0	596.6	552.8	530.1	515.2	503.5	494.9	493.3	484.7	483.1	479.2
15°	672.6	624.1	568.5	537.1	518.3	502.7	489.4	480.8	476.8	474.5	471.4
17.5°	709.4	647.5	577.1	537.1	516.8	498.8	484.7	476.8	467.5	469.0	462.8
20°	758.7	672.6	579.4	527.0	501.9	484.7	465.9	462.0	456.5	451.8	453.4
22.5°	806.5	690.6	572.4	514.4	478.4	458.1	448.7	444.0	441.6	437.7	432.2
25°	849.6	710.2	561.4	491.7	453.4	438.5	429.9	429.1	423.6	423.6	413.4
27.5°	893.4	717.2	542.6	465.1	431.4	422.8	418.9	417.3	415.0	409.5	402.5
30°	943.5	719.6	515.2	437.7	411.9	402.5	407.9	411.9	401.7	391.5	394.6
32.5°	985.0	714.1	482.3	411.9	397.8	393.1	404.0	407.9	396.2	385.2	379.8
35°	1035.0	700.8	450.2	391.5	383.7	393.1	402.5	402.5	379.0	365.7	362.5
37.5°	1111.0	685.9	420.5	374.3	368.8	388.4	400.9	392.3	355.5	339.0	335.1
40°	1192.4	676.5	391.5	357.0	361.0	380.5	387.6	361.0	323.4	313.2	310.1
42.5°	1310.7	657.7	365.7	342.2	353.9	369.6	369.6	321.8	307.7	302.2	301.5
45°	1457.9	644.4	343.0	329.6	343.7	347.7	335.1	301.5	291.3	289.7	290.5
47.5°	1529.9	618.6	319.5	314.8	324.9	325.7	292.8	285.0	276.4	274.0	272.5
50°	1518.9	572.4	288.9	295.2	309.3	301.5	267.0	268.6	260.7	260.0	256.0
52.5°	1442.2	499.6	258.4	273.3	288.9	266.2	245.9	244.3	244.3	234.1	230.2
55°	1278.6	402.5	221.6	240.4	259.2	223.9	218.5	216.9	213.0	203.6	201.2
57.5°	1012.3	295.2	166.8	187.1	220.0	190.3	189.5	182.4	172.3	165.2	165.2
60°	602.1	169.9	104.9	114.3	145.6	154.3	171.5	168.3	151.1	140.2	137.0
62.5°	274.8	87.7	66.6	68.1	78.3	100.2	134.7	155.8	131.5	112.8	111.2
65°	92.4	65.0	54.8	52.5	54.0	60.3	80.6	110.4	104.9	86.9	83.8
67.5°	56.4	57.9	51.7	47.8	47.8	47.0	46.2	50.1	61.9	60.3	61.1
70°	48.5	53.2	47.8	43.1	41.5	39.2	32.9	27.4	23.5	27.4	29.0
72.5°	39.2	42.3	40.7	36.8	32.9	29.8	23.5	18.0	13.3	11.7	11.7
75°	29.0	31.3	32.9	28.2	25.1	21.1	17.2	11.7	7.0	4.7	4.7
77.5°	21.1	23.5	24.3	21.9	18.8	14.9	11.0	7.8	3.9	1.6	1.6
80°	18.0	21.1	23.5	21.9	19.6	14.1	10.2	5.5	3.1	0.8	0.8
82.5°	17.2	21.1	23.5	21.1	18.8	13.3	10.2	6.3	2.3	0.8	0.8
85°	3.9	5.5	7.0	8.6	10.2	10.2	7.8	4.7	2.3	0.8	0.8
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.8	0.8	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)