

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: P647801

Luminaire Tested: **GALN-SA2A-835-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5209.3 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

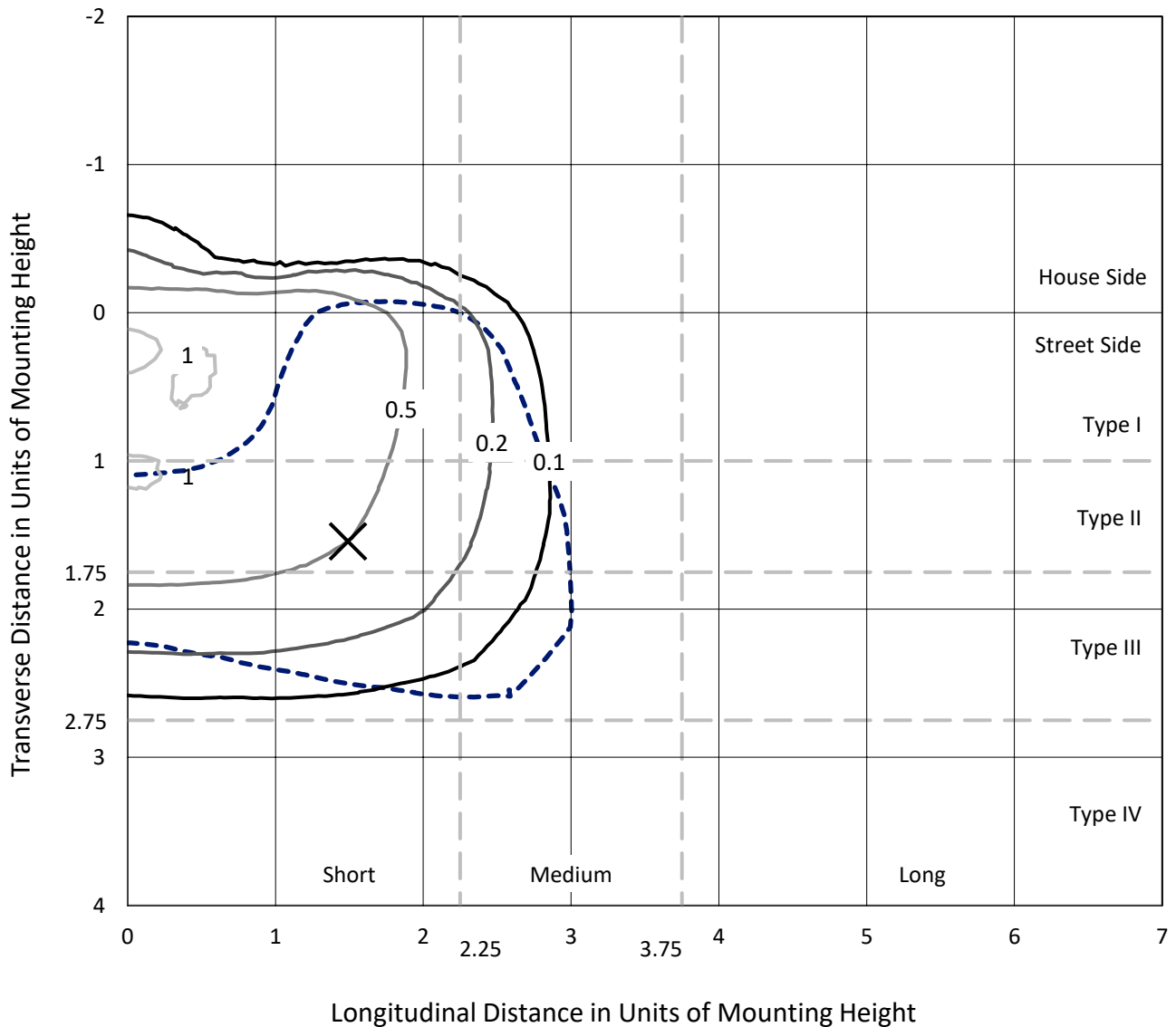
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647801  
 CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

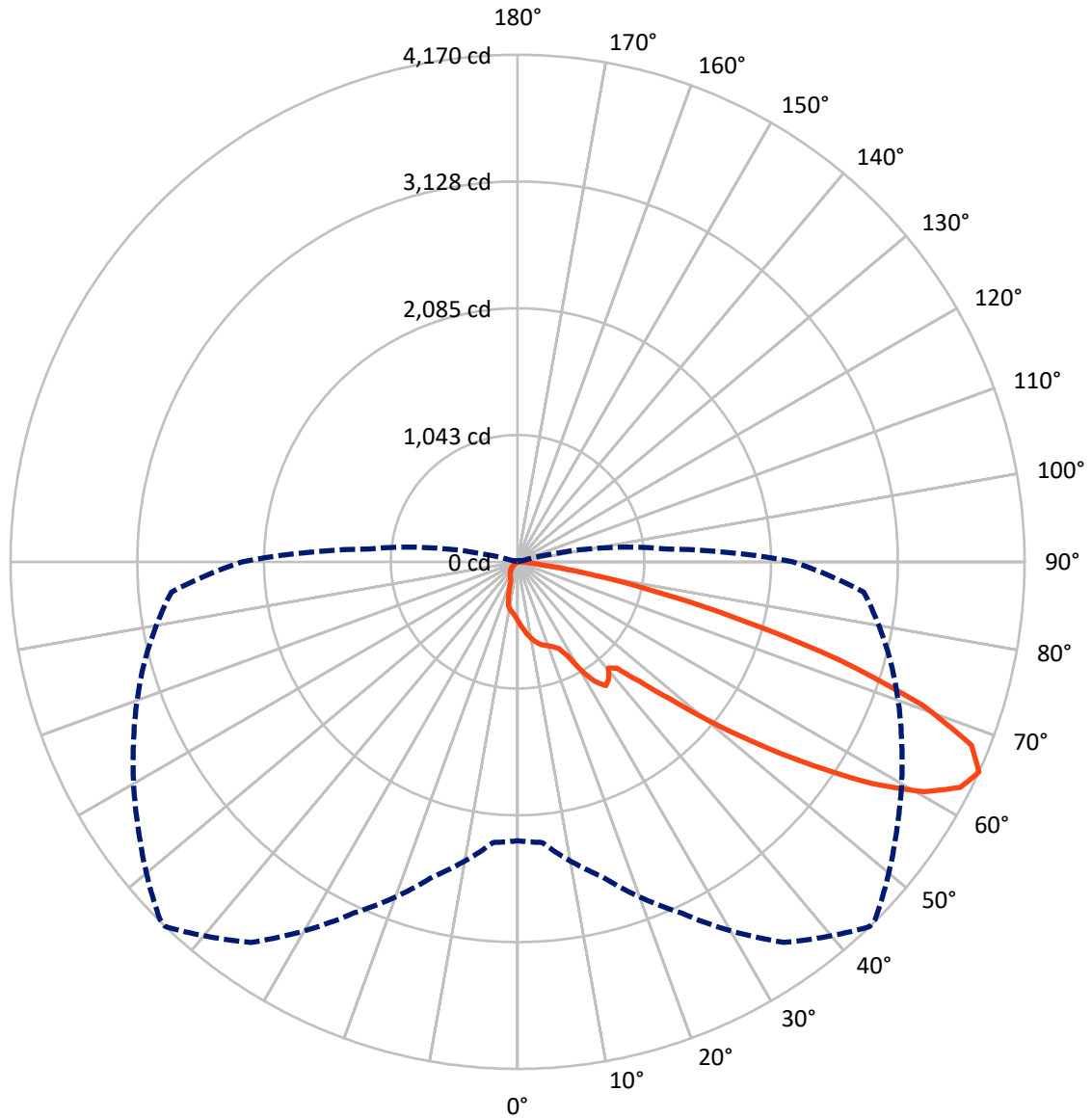
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P647801  
CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647801  
 CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

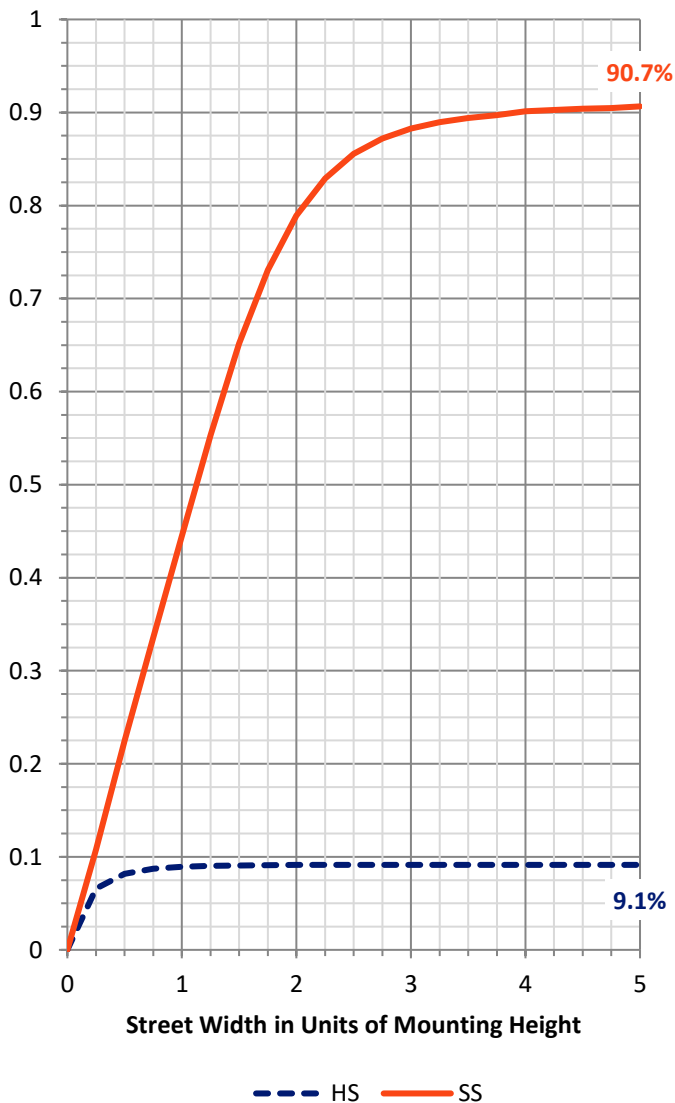
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	480.0	0.0	480.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	4729.3	0.0	4729.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	5209.3	0.0	5209.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	0.9
10°-20°	145.1	2.8
20°-30°	246.1	4.7
30°-40°	409.2	7.9
40°-50°	714.4	13.7
50°-60°	1395.7	26.8
60°-70°	1619.3	31.1
70°-80°	589.7	11.3
80°-90°	41.6	0.8
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°	5209.3	100.0
0°-180°	5209.3	100.0

**Coefficient of Utilization**

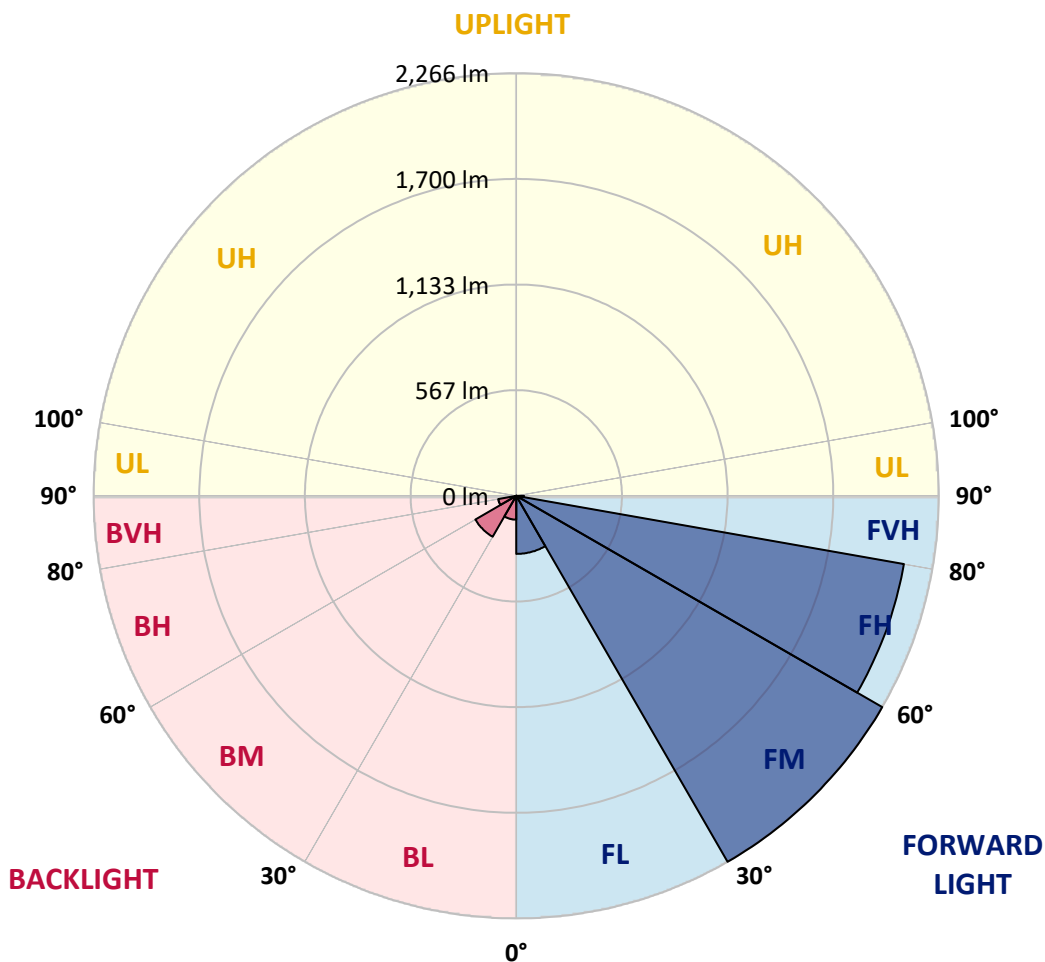


REPORT NUMBER: P647801  
 CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.6	6.0			
FM (30°-60°)	2266.1	43.5			
FH (60°-80°)	2110.7	40.5			G2/5000
FVH (80°-90°)	41.0	0.8			G1/100
BL (0°-30°)	127.9	2.5	B1/500		
BM (30°-60°)	253.2	4.9	B1/1000		
BH (60°-80°)	98.3	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Short





REPORT NUMBER: P647801

CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8
2.5°	545.8	543.3	542.1	535.8	531.0	525.0	525.0	517.5	508.7	499.2	490.4
5°	606.7	602.7	597.5	591.9	580.8	564.9	564.9	548.9	530.6	514.3	496.3
7.5°	665.2	661.6	652.8	642.1	623.7	607.1	605.8	582.8	560.9	536.2	510.7
10°	716.5	713.7	706.2	685.4	666.3	644.5	644.0	618.2	592.7	562.4	531.0
12.5°	752.3	752.7	742.8	722.9	698.2	677.5	675.9	650.4	623.7	591.1	552.5
15°	777.8	777.8	767.4	745.2	722.9	704.5	703.0	680.7	653.2	617.8	576.0
17.5°	785.0	787.4	776.2	756.3	738.4	722.5	722.1	703.4	681.4	647.2	599.9
20°	782.1	784.6	775.8	760.3	747.9	738.8	737.6	730.1	709.7	677.5	625.4
22.5°	776.2	778.6	772.2	763.0	757.1	759.9	757.9	764.3	753.5	714.5	655.6
25°	777.4	779.8	775.0	769.8	775.0	792.2	797.3	824.7	815.2	761.5	688.3
27.5°	814.8	819.6	812.8	815.2	833.5	873.4	883.3	930.7	888.5	821.2	739.2
30°	898.0	894.8	882.1	893.6	957.3	1041.7	1038.9	1031.4	965.3	890.0	799.7
32.5°	973.7	970.8	970.1	1019.8	1135.3	1176.2	1174.3	1101.1	1034.1	968.9	859.4
35°	1004.3	993.5	991.1	1111.8	1304.8	1250.7	1238.3	1129.7	1117.7	1054.9	920.3
37.5°	1096.7	1089.1	1052.0	1126.9	1237.1	1219.2	1209.7	1179.0	1206.9	1130.9	989.2
40°	1286.9	1265.8	1232.4	1159.2	1141.2	1148.8	1158.4	1242.3	1312.4	1234.8	1081.1
42.5°	1523.3	1518.6	1456.5	1320.0	1185.8	1196.2	1208.5	1374.5	1464.1	1391.2	1231.2
45°	1807.2	1813.9	1724.4	1563.2	1387.2	1396.0	1413.9	1569.5	1669.4	1634.4	1467.3
47.5°	2065.1	2059.9	2029.7	1862.1	1699.7	1680.2	1709.2	1819.9	1953.7	1959.2	1760.2
50°	2324.6	2352.1	2307.1	2241.4	2120.8	2079.8	2069.1	2123.3	2327.0	2300.4	2112.1
52.5°	2697.6	2711.9	2627.6	2610.8	2638.3	2505.4	2494.6	2507.7	2690.1	2598.5	2375.6
55°	2932.1	2923.7	2892.2	3022.8	3131.5	2965.5	2952.0	2899.1	2991.4	2809.1	2629.2
57.5°	3006.1	3018.1	3091.3	3327.4	3584.5	3443.6	3418.9	3268.4	3208.7	3005.3	2862.4
60°	2973.1	2995.0	3153.0	3504.1	3860.7	3839.6	3818.5	3565.8	3364.8	3169.3	3026.0
62.5°	2737.8	2768.5	3021.2	3472.6	3954.3	4086.0	4059.8	3751.3	3468.6	3248.9	3054.6
65°	2294.4	2317.1	2680.1	3187.2	3821.4	4170.4	4160.9	3809.4	3485.0	3176.1	2858.4
67.5°	1635.6	1712.8	2049.2	2686.1	3428.1	4026.3	4042.6	3739.7	3331.7	2861.2	2367.2
70°	1028.2	1080.7	1321.9	1923.0	2748.2	3532.3	3586.1	3420.8	2891.5	2230.3	1584.6
72.5°	490.4	529.4	701.3	1217.3	1939.7	2779.2	2821.8	2808.3	2235.9	1405.1	817.6
75°	218.5	233.3	334.7	621.4	1252.3	1868.1	1978.3	1996.6	1397.2	687.5	318.1
77.5°	111.4	111.9	156.8	300.9	625.4	1114.5	1136.4	1200.5	757.5	302.9	110.6
80°	59.3	63.3	83.2	142.1	324.4	548.9	546.1	600.2	336.0	148.5	37.0
82.5°	26.7	29.4	47.0	74.5	158.4	208.2	224.5	245.6	144.1	94.7	16.3
85°	8.0	9.6	23.1	37.4	57.3	60.1	67.3	86.8	81.6	67.3	8.4
87.5°	1.2	1.2	9.6	10.3	8.4	10.7	11.1	12.4	26.3	24.7	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647801

CATALOG NUMBER: GALN-SA2A-835-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8	484.8
2.5°	485.6	482.9	472.9	464.6	457.4	453.0	447.8	444.7	443.0	441.8	442.2
5°	487.7	480.8	463.8	450.2	439.8	428.7	421.2	416.8	414.8	411.6	411.6
7.5°	498.8	488.0	464.2	443.4	425.5	410.4	396.0	390.9	387.3	386.5	385.7
10°	514.7	501.1	468.5	439.8	414.4	393.7	373.4	355.5	341.5	333.2	332.0
12.5°	534.6	515.1	475.3	437.5	404.8	368.2	314.5	278.3	253.9	246.4	247.6
15°	552.9	531.8	482.0	435.5	387.3	305.3	244.4	203.0	190.7	189.5	189.9
17.5°	574.8	549.7	490.0	432.7	339.1	233.3	181.5	170.4	172.7	176.7	176.3
20°	597.5	568.8	499.6	415.9	270.7	175.5	160.4	161.6	165.2	168.7	169.6
22.5°	621.8	590.7	510.7	375.8	206.6	152.8	152.1	153.6	157.2	161.2	162.0
25°	655.2	618.2	519.1	323.2	156.4	141.3	142.9	145.7	148.8	153.2	154.0
27.5°	698.2	655.2	523.4	254.8	135.3	131.0	131.4	135.3	139.3	143.3	143.3
30°	754.0	699.4	514.7	192.7	125.0	121.0	119.4	121.8	127.0	131.0	131.4
32.5°	803.7	741.2	491.6	147.3	117.4	111.9	107.9	108.3	110.2	112.7	113.1
35°	853.4	781.7	452.2	123.8	109.5	103.1	97.1	94.0	92.3	91.1	92.3
37.5°	917.1	832.3	399.6	112.7	102.7	94.7	86.4	79.6	74.1	70.5	71.3
40°	999.1	902.4	337.6	105.5	96.3	86.8	75.6	66.9	57.3	54.1	52.5
42.5°	1134.5	1008.7	272.2	99.5	90.0	78.4	64.5	52.5	43.8	40.6	41.4
45°	1348.2	1142.8	209.8	93.2	83.6	69.3	54.1	41.4	34.2	32.7	33.4
47.5°	1631.6	1316.4	161.6	86.0	75.6	59.3	42.6	32.7	28.3	27.9	27.5
50°	1898.3	1478.0	134.9	78.0	66.1	49.3	35.0	27.5	24.7	24.3	24.3
52.5°	2139.5	1593.8	109.9	68.8	55.7	40.6	29.4	24.3	21.9	20.7	20.7
55°	2354.1	1669.4	89.2	57.7	43.8	32.3	25.4	21.9	19.1	17.5	17.1
57.5°	2516.1	1678.6	66.9	46.2	32.7	25.1	21.9	19.1	15.9	13.9	13.2
60°	2585.4	1599.4	49.3	35.0	24.3	19.9	17.5	15.5	12.0	9.9	9.6
62.5°	2515.7	1445.3	36.6	26.7	18.7	14.7	12.4	11.5	8.4	6.0	5.6
65°	2266.2	1222.8	29.0	20.3	13.9	10.7	8.0	7.6	5.2	2.8	2.4
67.5°	1815.5	957.7	23.1	15.1	9.9	7.2	5.2	4.8	2.8	0.8	0.8
70°	1180.6	612.2	18.7	11.1	6.3	4.8	3.2	2.4	1.6	0.4	0.0
72.5°	584.0	286.2	15.1	8.8	4.4	2.4	1.2	0.8	1.2	0.0	0.0
75°	226.5	101.9	11.1	6.0	2.4	1.2	0.8	0.0	0.4	0.0	0.0
77.5°	75.2	33.8	6.7	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	27.9	13.2	3.6	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	5.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	3.2	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	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)