

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: P648233

Luminaire Tested: **GALN-SA1B-835-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3309.8 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

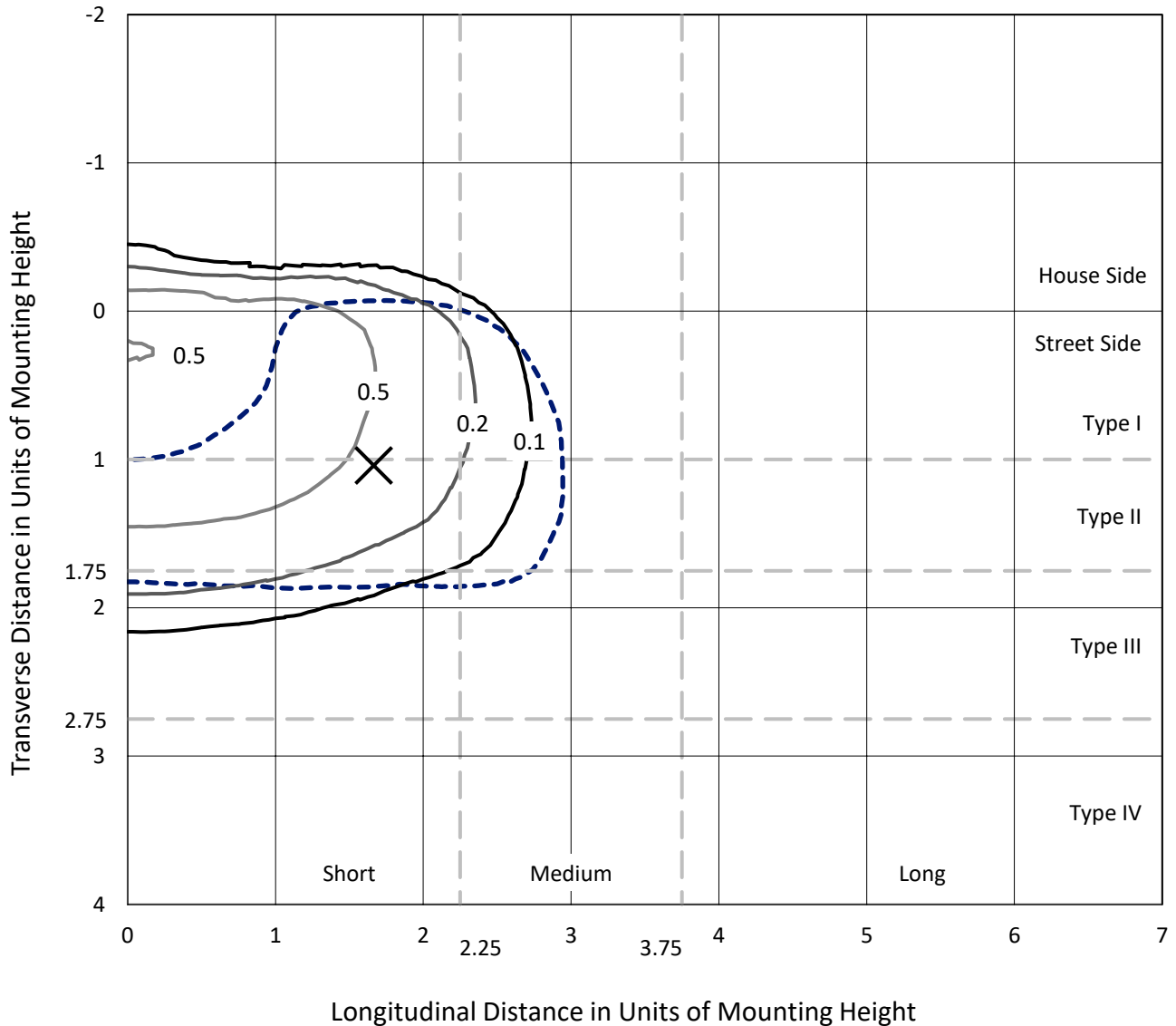
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

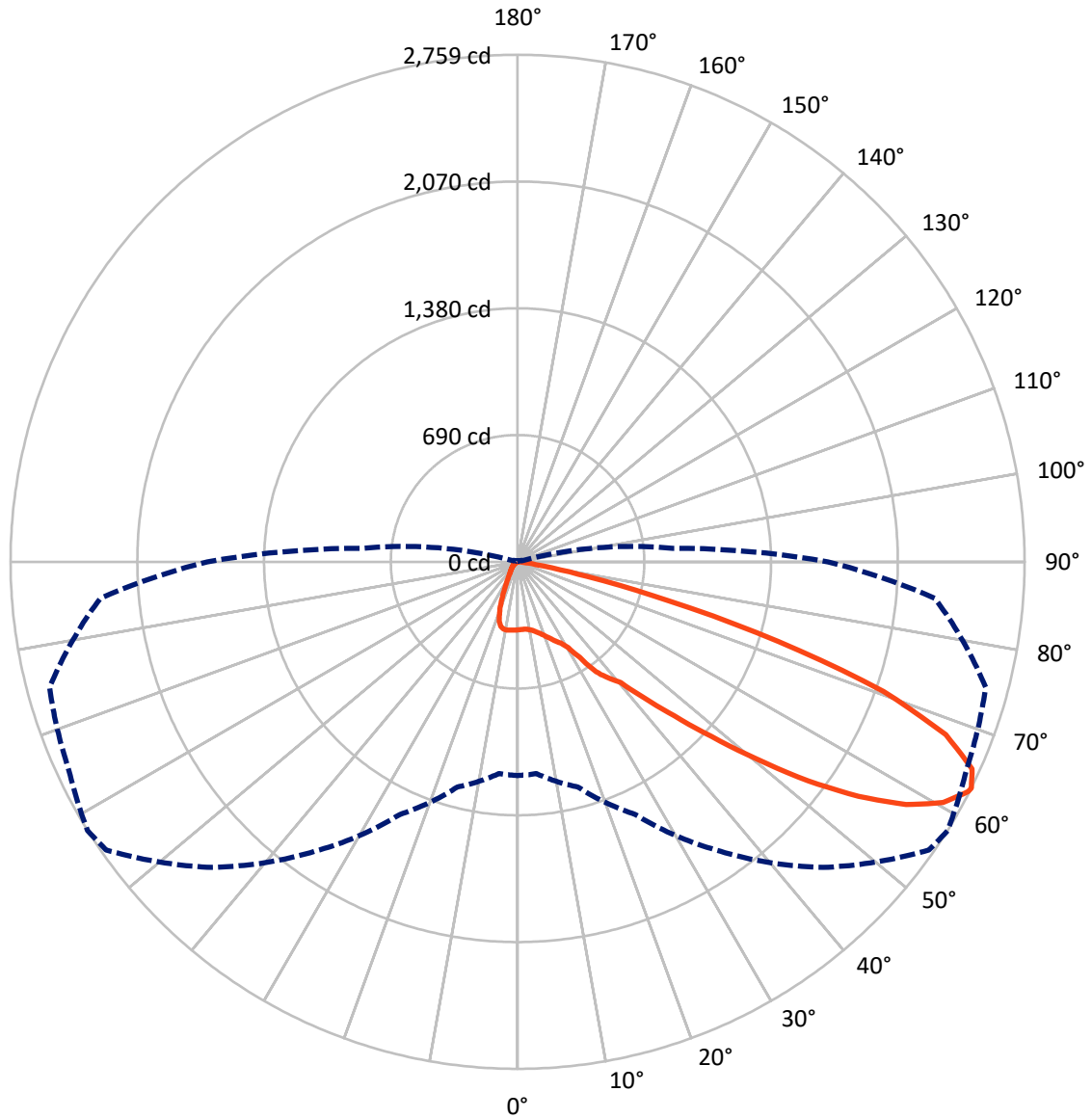
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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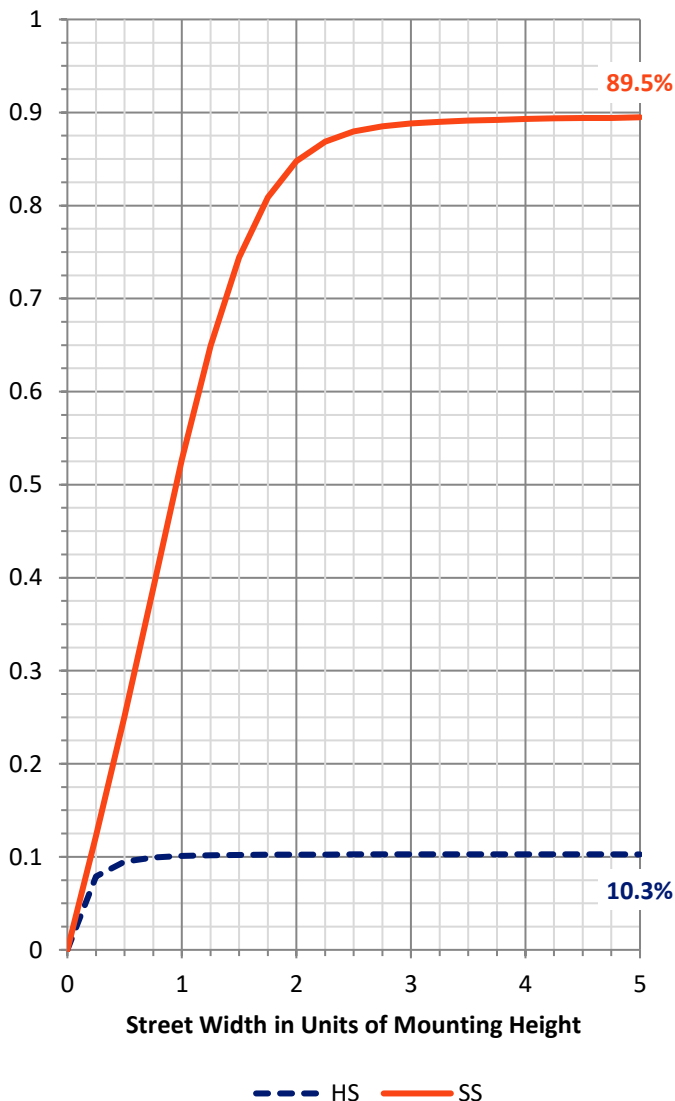
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	342.7	0.0	342.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2967.0	0.0	2967.0
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	3309.8	0.0	3309.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.7	1.0
10°-20°	94.5	2.9
20°-30°	164.0	5.0
30°-40°	301.3	9.1
40°-50°	567.2	17.1
50°-60°	970.2	29.3
60°-70°	928.9	28.1
70°-80°	236.9	7.2
80°-90°	12.1	0.4
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°	3309.8	100.0
0°-180°	3309.8	100.0

**Coefficient of Utilization**



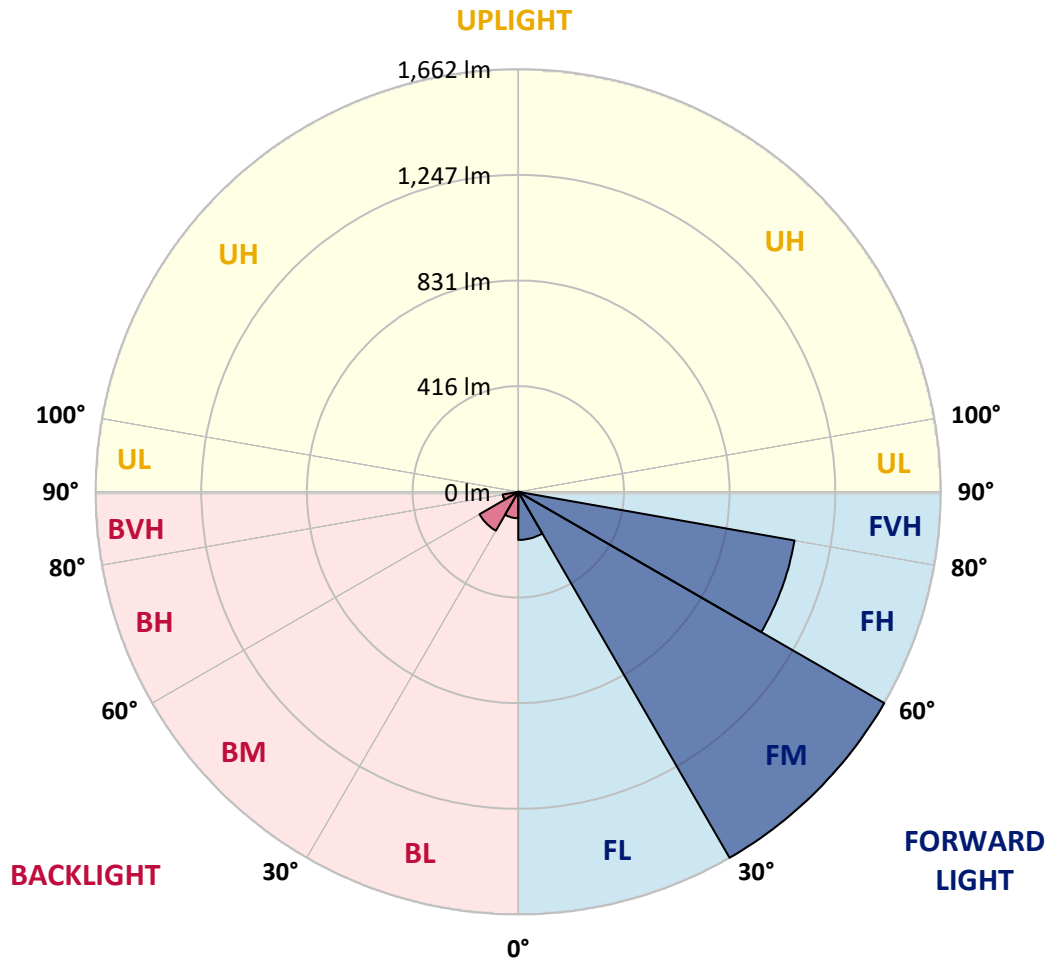
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 CATALOG NUMBER: GALN-SA1B-835-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.2	5.7			
FM (30°-60°)	1662.4	50.2			
FH (60°-80°)	1103.8	33.3			G1/1800
FVH (80°-90°)	11.6	0.4			G1/100
BL (0°-30°)	103.9	3.1	B0/110		
BM (30°-60°)	176.3	5.3	B0/220		
BH (60°-80°)	62.0	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	361.4	362.5	363.8	364.3	366.1	367.8	369.0	368.8	370.8	371.8	371.8
5°	346.9	346.9	350.1	353.1	358.1	363.1	367.8	368.8	372.6	376.0	377.2
7.5°	334.7	335.4	337.9	343.3	350.1	358.8	368.3	370.5	377.0	384.8	388.0
10°	328.9	329.4	332.7	338.4	346.9	358.8	372.0	376.2	386.3	398.5	402.9
12.5°	327.7	328.4	331.7	338.2	347.9	362.3	380.2	384.8	399.2	414.9	421.6
15°	330.0	330.4	333.6	340.6	351.3	368.6	391.2	397.5	414.7	432.8	441.5
17.5°	337.9	337.4	339.7	345.4	357.4	376.2	404.4	411.9	432.1	457.0	462.8
20°	371.8	368.6	366.5	361.6	366.3	387.3	420.4	431.4	456.3	481.7	485.7
22.5°	444.8	437.5	423.4	403.9	389.0	402.1	439.6	452.3	484.4	509.3	509.3
25°	537.8	528.5	514.4	472.0	435.3	426.9	461.3	477.2	515.1	540.3	532.0
27.5°	654.1	646.9	619.2	569.9	513.8	470.0	486.4	501.1	542.2	572.6	555.5
30°	748.8	745.3	722.6	678.5	616.8	552.7	533.2	543.0	578.3	613.5	595.8
32.5°	828.8	828.8	805.6	764.5	706.7	649.9	612.8	619.7	653.6	694.2	661.3
35°	916.7	913.8	895.0	856.0	791.1	741.1	725.8	735.3	766.0	796.2	715.2
37.5°	1009.2	1008.2	988.8	950.9	898.1	835.0	799.4	801.9	817.6	836.0	778.2
40°	1109.6	1111.2	1085.7	1062.3	1012.4	947.9	879.6	864.0	878.6	930.7	894.6
42.5°	1228.2	1224.8	1213.8	1181.9	1141.8	1103.2	1021.2	1015.4	1028.4	1084.2	1045.1
45°	1366.0	1371.0	1352.1	1334.4	1307.5	1275.4	1206.8	1196.8	1211.1	1297.7	1242.2
47.5°	1504.1	1499.4	1511.6	1508.3	1522.8	1498.8	1438.3	1417.9	1452.0	1534.2	1452.5
50°	1609.2	1614.5	1639.9	1677.0	1739.0	1752.5	1694.5	1687.4	1702.7	1755.5	1640.6
52.5°	1677.5	1695.0	1734.8	1830.3	1942.2	2029.1	1985.0	1981.3	1975.0	1989.2	1820.6
55°	1722.1	1739.8	1791.9	1932.4	2125.1	2266.3	2268.6	2252.6	2211.5	2201.3	1988.7
57.5°	1694.7	1698.2	1772.5	1960.3	2226.5	2435.5	2508.8	2492.8	2416.8	2378.2	2137.3
60°	1523.2	1530.5	1633.9	1854.7	2182.4	2490.9	2668.0	2660.8	2577.6	2533.9	2252.8
62.5°	1219.5	1240.4	1346.8	1593.0	1977.3	2397.6	2732.6	2753.0	2688.2	2628.1	2289.3
63°	1163.7	1157.0	1269.3	1516.8	1923.0	2351.6	2733.5	2759.4	2693.2	2637.1	2279.3
65°	861.5	881.6	954.6	1196.1	1600.3	2137.0	2672.0	2717.9	2674.7	2597.5	2168.9
67.5°	483.7	482.6	563.4	782.7	1120.1	1676.2	2416.1	2513.0	2504.0	2330.9	1797.8
70°	236.7	240.5	273.6	405.7	649.7	1156.5	2007.7	2112.4	2115.6	1830.7	1243.2
72.5°	107.1	108.9	132.6	197.6	333.9	615.8	1383.5	1483.4	1465.0	1166.7	686.5
75°	56.5	60.3	73.0	99.4	161.0	253.9	752.5	849.2	810.6	533.0	252.7
77.5°	41.9	43.1	49.6	63.3	86.2	98.9	324.7	386.3	361.8	192.9	83.7
80°	30.6	31.6	36.9	44.9	54.3	50.3	122.4	140.3	125.8	65.5	25.7
82.5°	18.7	18.9	26.9	33.4	34.1	28.2	40.4	43.4	45.3	36.9	13.9
85°	6.7	8.5	18.2	24.2	20.2	14.2	16.9	18.7	20.4	23.4	8.2
87.5°	0.8	1.0	8.7	11.7	5.7	5.2	6.3	7.0	7.4	8.7	4.0
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°	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5	370.5
2.5°	372.8	373.8	373.0	371.8	371.5	370.8	369.3	369.3	369.3	369.8	369.3
5°	378.3	379.0	377.2	374.7	372.0	368.6	364.8	362.5	362.3	361.8	360.6
7.5°	388.8	389.7	385.7	379.8	372.3	363.8	355.9	348.4	344.8	342.1	342.1
10°	403.9	404.9	397.0	386.3	371.3	354.1	335.1	318.0	304.5	298.2	296.8
12.5°	422.1	422.6	409.4	390.7	366.1	332.9	292.5	254.9	228.7	216.8	215.6
15°	442.1	438.6	421.1	392.4	351.1	289.3	219.6	173.4	146.3	138.3	141.3
17.5°	462.2	455.8	430.1	389.7	317.4	219.6	147.5	118.4	109.9	107.7	107.7
20°	481.2	472.2	436.6	377.8	259.2	151.3	109.4	102.4	100.9	99.4	99.7
22.5°	500.1	486.4	442.3	351.1	193.1	108.1	98.0	95.7	93.7	91.7	91.5
25°	518.6	499.6	444.5	301.8	131.5	92.9	89.4	86.4	82.4	80.3	79.7
27.5°	537.8	515.5	443.0	239.4	95.9	83.2	79.7	75.5	70.8	66.8	66.8
30°	574.6	546.0	437.9	172.2	80.7	73.3	68.7	62.0	56.8	52.9	52.5
32.5°	625.0	585.6	419.8	121.1	71.8	64.5	57.8	50.3	44.9	41.9	41.9
35°	669.8	625.5	386.3	89.2	64.5	56.1	47.8	40.6	36.4	34.4	33.7
37.5°	738.1	683.8	339.9	72.5	57.6	48.6	40.1	33.4	29.9	28.4	28.4
40°	840.5	755.0	283.1	63.6	50.8	41.3	33.4	28.2	25.4	23.6	23.6
42.5°	967.6	842.3	225.5	57.1	44.6	35.6	27.9	24.0	21.5	20.2	20.0
45°	1127.6	934.2	173.7	51.1	39.6	30.4	23.6	20.2	17.7	16.9	17.2
47.5°	1294.5	1015.2	134.6	45.9	34.4	25.7	20.2	17.5	15.7	14.7	14.7
50°	1437.0	1071.0	102.2	39.9	30.4	21.7	17.7	15.7	14.2	13.7	13.5
52.5°	1556.1	1087.2	78.2	34.6	26.7	18.7	15.7	14.2	12.9	12.2	12.2
55°	1657.6	1073.0	61.3	29.1	22.4	16.2	13.9	12.7	11.2	10.5	10.2
57.5°	1716.9	1027.4	46.8	24.2	18.2	13.5	12.2	10.7	9.0	7.8	7.8
60°	1746.8	961.1	35.9	20.0	13.9	10.7	9.9	8.0	6.3	5.2	5.0
62.5°	1710.9	873.1	27.2	15.7	10.5	8.0	6.7	5.7	4.0	3.0	3.0
63°	1688.7	847.8	26.2	15.0	9.7	7.4	6.3	5.2	3.5	2.7	2.5
65°	1539.5	736.8	21.5	12.0	7.8	5.2	4.2	3.8	2.5	1.3	1.0
67.5°	1222.5	563.7	16.9	9.0	5.5	3.8	2.5	2.3	0.8	0.0	0.0
70°	826.5	364.1	13.2	6.5	3.8	2.3	1.3	1.0	0.2	0.0	0.0
72.5°	431.1	186.7	10.2	4.7	2.3	1.5	0.8	0.2	0.0	0.0	0.0
75°	152.5	63.6	7.4	3.0	1.5	0.8	0.2	0.0	0.0	0.0	0.0
77.5°	46.1	23.6	4.7	2.3	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.2	8.7	2.7	1.5	0.8	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	4.2	1.7	1.3	0.8	0.2	0.0	0.0	0.0	0.0	0.0
85°	4.5	2.7	1.5	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	2.0	1.5	1.3	1.0	0.5	0.2	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)