

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: P647741

Luminaire Tested: **GALN-SA1A-835-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2836.8 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

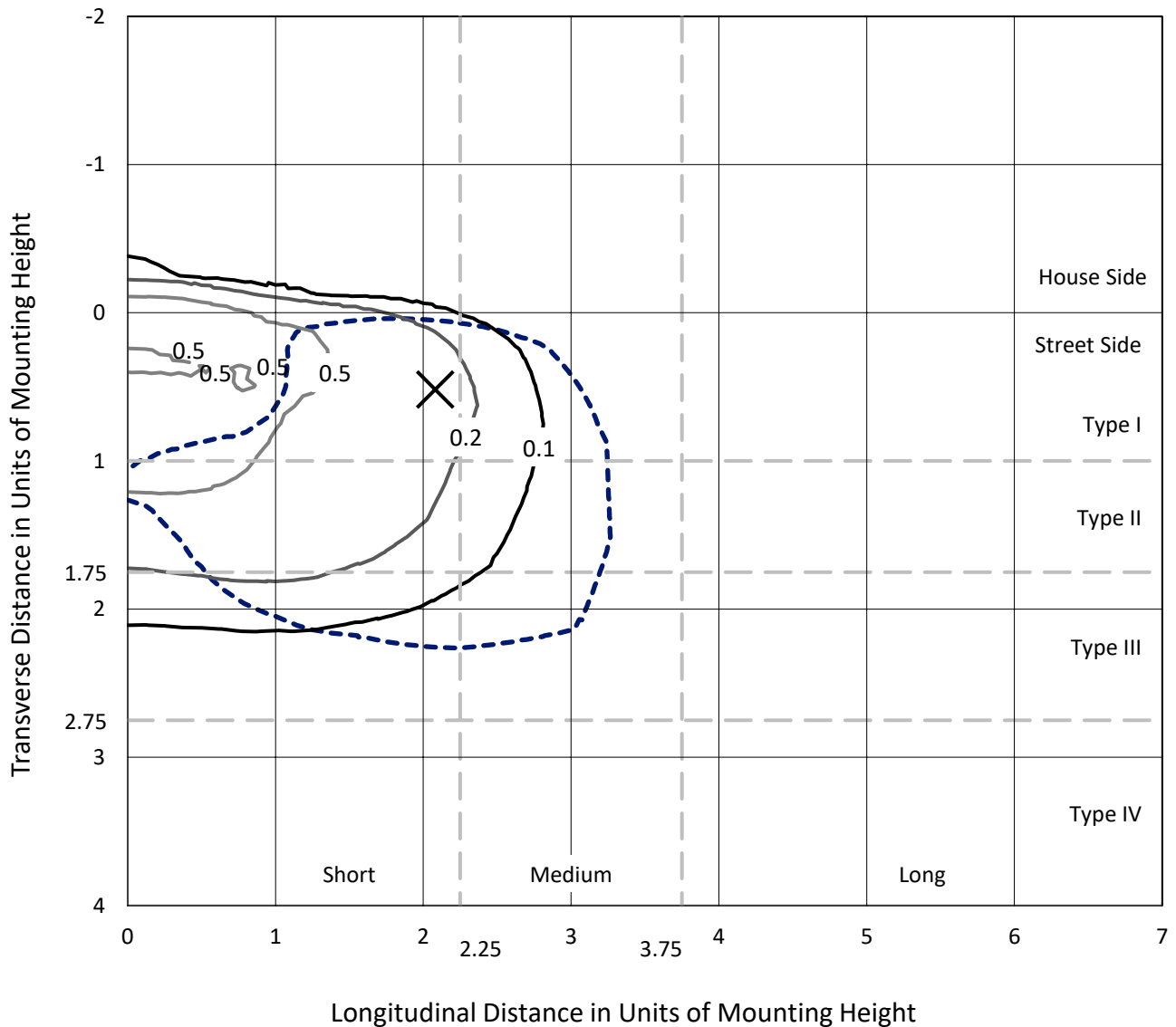
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

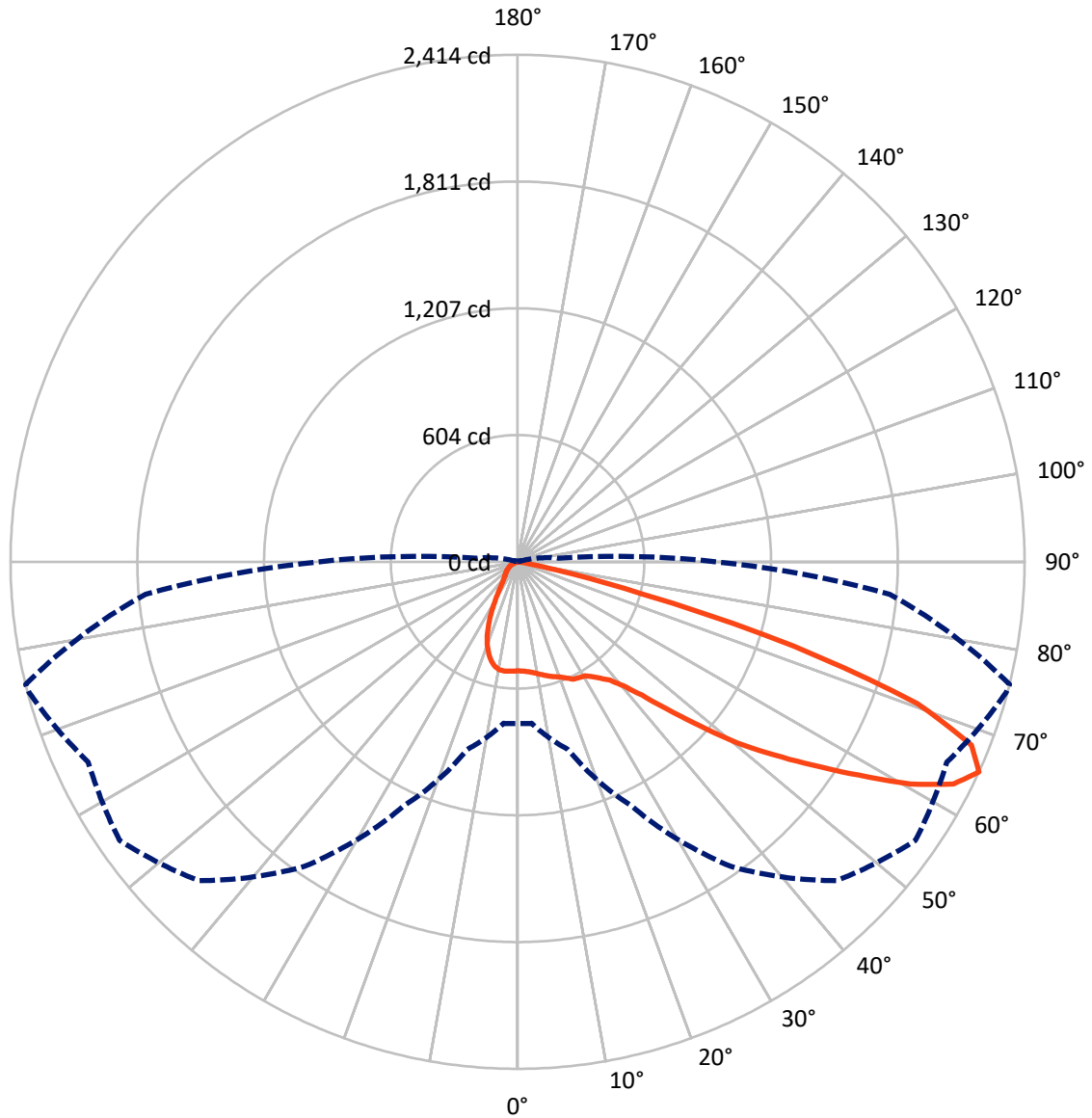
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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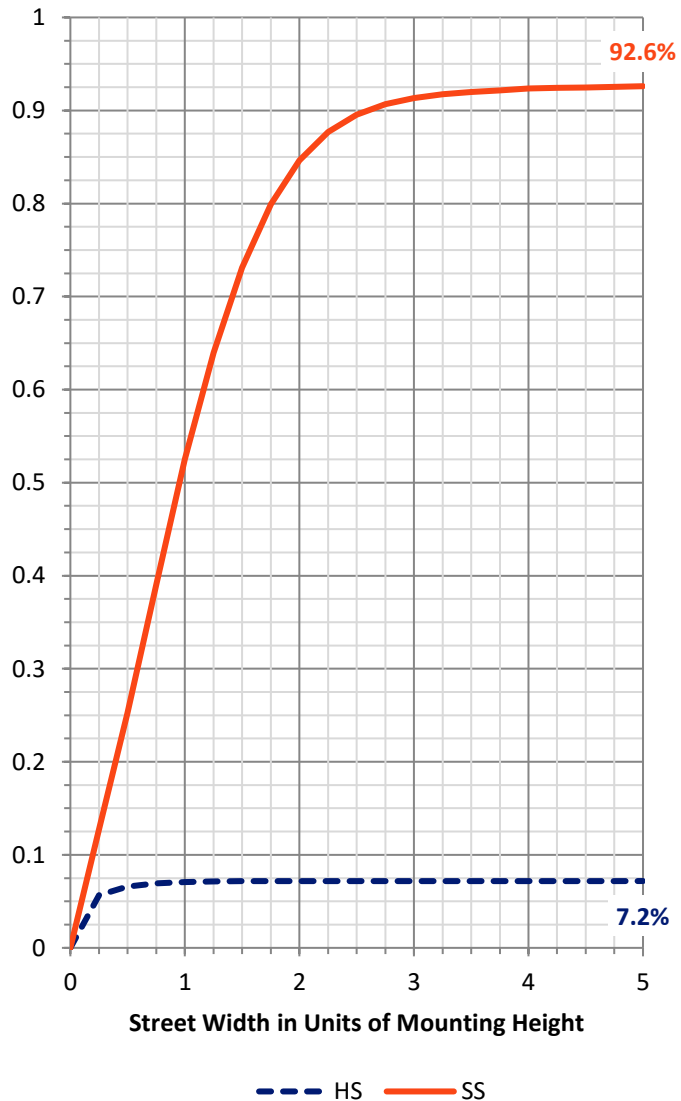
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	204.9	0.0	204.9
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2631.9	0.0	2631.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2836.8	0.0	2836.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.5
10°-20°	95.2	3.4
20°-30°	153.4	5.4
30°-40°	266.7	9.4
40°-50°	440.7	15.5
50°-60°	680.8	24.0
60°-70°	831.3	29.3
70°-80°	315.5	11.1
80°-90°	10.5	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°	2836.8	100.0
0°-180°	2836.8	100.0

**Coefficient of Utilization**



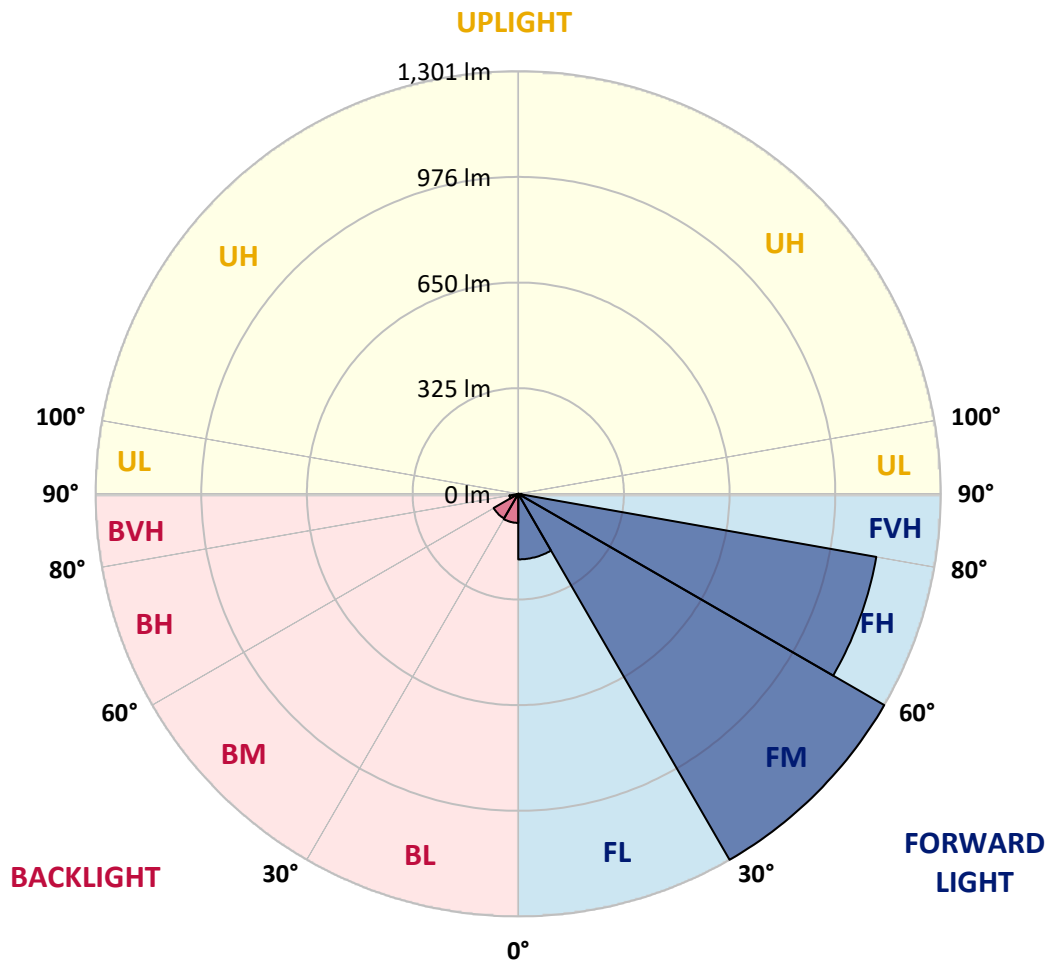
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 CATALOG NUMBER: GALN-SA1A-835-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.8	7.1			
FM (30°-60°)	1300.7	45.9			
FH (60°-80°)	1119.0	39.4			G1/1800
FVH (80°-90°)	10.4	0.4			G1/100
BL (0°-30°)	89.5	3.2	B0/110		
BM (30°-60°)	87.4	3.1	B0/220		
BH (60°-80°)	27.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.1	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°	65°	75°	76°	85°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	495.9	496.1	497.3	500.3	505.0	508.7	511.9	517.2	520.8	521.2	522.3
5°	461.7	459.2	461.7	469.5	476.5	487.1	500.1	513.1	524.8	525.5	531.2
7.5°	423.2	425.2	429.0	437.0	450.2	466.4	485.3	508.6	530.6	532.6	543.6
10°	384.1	388.5	394.8	407.0	425.4	446.5	472.1	505.3	539.8	542.5	561.6
12.5°	348.1	350.1	357.7	374.1	397.0	426.6	462.0	503.5	550.0	553.4	580.8
15°	320.5	323.1	329.6	344.5	370.0	408.0	453.8	502.9	560.0	564.8	600.1
17.5°	315.2	316.9	319.6	329.6	351.9	393.1	446.5	502.7	569.6	575.4	617.9
20°	336.7	335.3	332.5	331.4	343.7	381.7	441.1	504.3	578.8	585.4	636.7
22.5°	390.3	392.1	375.8	356.3	352.3	379.9	440.2	511.9	593.4	601.3	657.7
25°	504.3	490.5	464.9	418.4	383.4	391.0	449.2	529.9	610.5	619.1	676.7
27.5°	630.3	626.1	586.2	509.7	444.4	414.2	465.3	543.8	616.1	624.9	687.6
30°	754.1	759.1	713.4	628.9	533.1	457.3	480.3	549.0	621.1	630.3	701.4
32.5°	868.8	874.8	834.8	751.1	637.7	531.7	506.1	569.2	642.1	651.5	724.4
35°	959.2	960.0	929.7	863.0	751.9	622.3	562.0	604.6	670.6	681.6	748.9
37.5°	1042.1	1040.9	1005.5	948.0	847.0	712.2	632.3	645.5	703.0	714.4	784.1
40°	1103.6	1104.3	1093.0	1038.9	935.8	795.4	688.0	683.8	757.5	775.3	835.4
42.5°	1144.7	1152.0	1157.7	1130.2	1047.3	897.7	773.5	765.7	852.0	866.9	907.9
45°	1177.9	1191.1	1219.1	1217.7	1154.5	1023.3	890.9	874.8	986.0	1001.8	1000.2
47.5°	1202.1	1215.5	1262.0	1290.1	1255.2	1145.1	1038.5	1024.6	1146.1	1163.3	1102.2
50°	1214.5	1230.6	1289.8	1344.1	1333.9	1262.4	1206.8	1207.5	1339.3	1355.9	1220.4
52.5°	1185.5	1206.3	1304.6	1402.4	1422.2	1374.8	1364.4	1390.8	1511.3	1525.6	1327.1
55°	1092.8	1119.0	1284.4	1452.1	1524.6	1507.4	1543.4	1583.7	1699.4	1708.7	1436.6
57.5°	1034.1	1061.9	1224.8	1494.4	1647.6	1674.0	1731.1	1760.5	1893.5	1916.9	1562.4
60°	984.6	1006.5	1175.7	1503.4	1772.6	1877.9	1933.4	1963.8	2133.0	2148.2	1700.8
62.5°	902.3	927.3	1092.8	1440.5	1835.4	2041.1	2156.1	2142.4	2318.3	2329.0	1785.8
65°	769.9	772.1	924.5	1282.4	1770.5	2147.1	2312.5	2255.4	2406.9	2414.1	1779.1
67.5°	574.6	595.9	711.2	1008.0	1495.5	2056.5	2363.2	2258.4	2351.0	2330.9	1638.0
70°	370.1	386.3	482.1	699.0	1078.3	1716.3	2195.1	2103.6	2063.4	2018.9	1340.7
72.5°	170.9	191.7	286.4	399.4	639.6	1222.6	1782.0	1709.1	1485.1	1375.3	852.2
75°	74.5	79.7	141.4	210.7	299.8	646.5	1174.9	1060.9	670.8	612.7	341.1
77.5°	45.5	48.9	74.1	113.0	117.8	246.3	632.9	462.8	207.3	182.8	92.6
80°	30.9	34.7	53.9	59.1	40.2	68.7	237.6	123.6	41.9	40.1	19.8
82.5°	15.0	19.0	39.9	33.0	17.5	22.0	69.1	26.5	12.2	11.4	7.0
85°	2.2	3.8	22.4	21.6	7.8	5.2	12.2	6.6	4.2	4.0	3.2
87.5°	0.0	0.0	7.6	3.4	0.8	0.8	1.4	1.4	1.6	1.4	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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CATALOG NUMBER: GALN-SA1A-835-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	523.0	524.0	520.1	514.7	509.0	503.2	494.9	487.5	483.1	485.7	479.3
5°	532.4	531.6	521.6	505.1	483.3	457.0	431.0	408.8	401.6	390.8	389.5
7.5°	545.4	543.2	521.9	484.3	435.0	385.8	337.7	305.8	287.6	272.2	272.6
10°	563.6	557.2	517.3	447.6	366.5	292.2	230.9	188.9	170.6	164.8	160.2
12.5°	582.4	570.0	504.5	398.2	285.4	199.7	140.4	114.8	103.5	99.9	99.5
15°	599.2	579.7	482.1	338.6	207.5	127.6	95.8	87.3	85.9	86.1	85.9
17.5°	615.9	587.2	451.0	275.6	141.0	91.5	82.3	80.3	80.9	81.7	81.5
20°	629.7	588.8	411.4	210.3	99.8	80.3	77.3	76.9	77.5	78.1	78.1
22.5°	644.7	590.1	364.3	145.6	81.5	74.7	73.1	73.1	73.9	74.7	74.9
25°	655.9	583.4	308.0	104.5	71.9	69.3	68.5	68.7	69.5	69.9	69.7
27.5°	657.7	564.8	248.4	80.1	65.3	62.7	61.9	62.7	61.7	62.3	61.9
30°	659.4	541.2	187.8	67.5	59.3	55.3	54.1	52.9	52.1	51.1	50.9
32.5°	664.4	513.3	137.2	60.7	53.7	49.3	46.4	43.1	40.5	39.6	39.5
35°	666.6	479.9	100.8	55.3	48.7	43.8	38.8	34.1	30.2	28.8	29.8
37.5°	674.9	447.4	78.1	51.3	44.2	38.3	31.9	25.8	22.2	21.5	21.8
40°	692.2	412.2	65.5	47.8	40.5	33.0	25.2	19.4	17.0	16.2	16.1
42.5°	719.8	377.2	58.3	44.6	36.6	27.9	19.8	15.2	13.2	12.6	12.6
45°	753.5	343.5	53.2	41.3	32.7	22.4	15.7	12.2	11.0	10.6	10.6
47.5°	797.7	314.1	49.1	37.8	28.3	17.9	12.6	10.6	9.8	10.0	10.2
50°	842.6	292.2	44.5	34.1	23.3	14.6	10.8	9.4	9.2	9.4	9.4
52.5°	876.5	279.4	38.3	28.8	18.2	12.2	9.6	8.8	8.6	8.2	8.2
55°	922.1	276.6	30.5	23.4	14.4	10.2	8.6	8.0	7.4	7.0	6.8
57.5°	980.8	279.8	23.4	18.2	11.2	8.4	7.6	6.6	5.8	5.0	5.0
60°	1017.3	272.6	18.2	14.0	8.2	6.8	5.8	4.8	3.8	3.2	3.0
62.5°	1005.6	242.2	14.4	10.4	5.8	5.0	3.8	3.2	2.2	1.6	1.4
65°	945.8	195.5	11.6	7.2	4.2	3.0	2.0	2.0	1.0	0.2	0.0
67.5°	827.8	144.8	9.2	4.8	2.4	1.4	1.0	0.6	0.0	0.0	0.0
70°	673.8	104.5	7.2	3.0	1.4	1.0	0.4	0.2	0.0	0.0	0.0
72.5°	427.8	59.9	5.6	1.8	1.0	0.4	0.0	0.0	0.0	0.0	0.0
75°	165.4	23.4	3.8	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	46.9	11.0	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.2	4.8	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.2	0.0	0.0	0.0	0.0	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)