

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: P647713

Luminaire Tested: **GALN-SA1A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2118.8 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

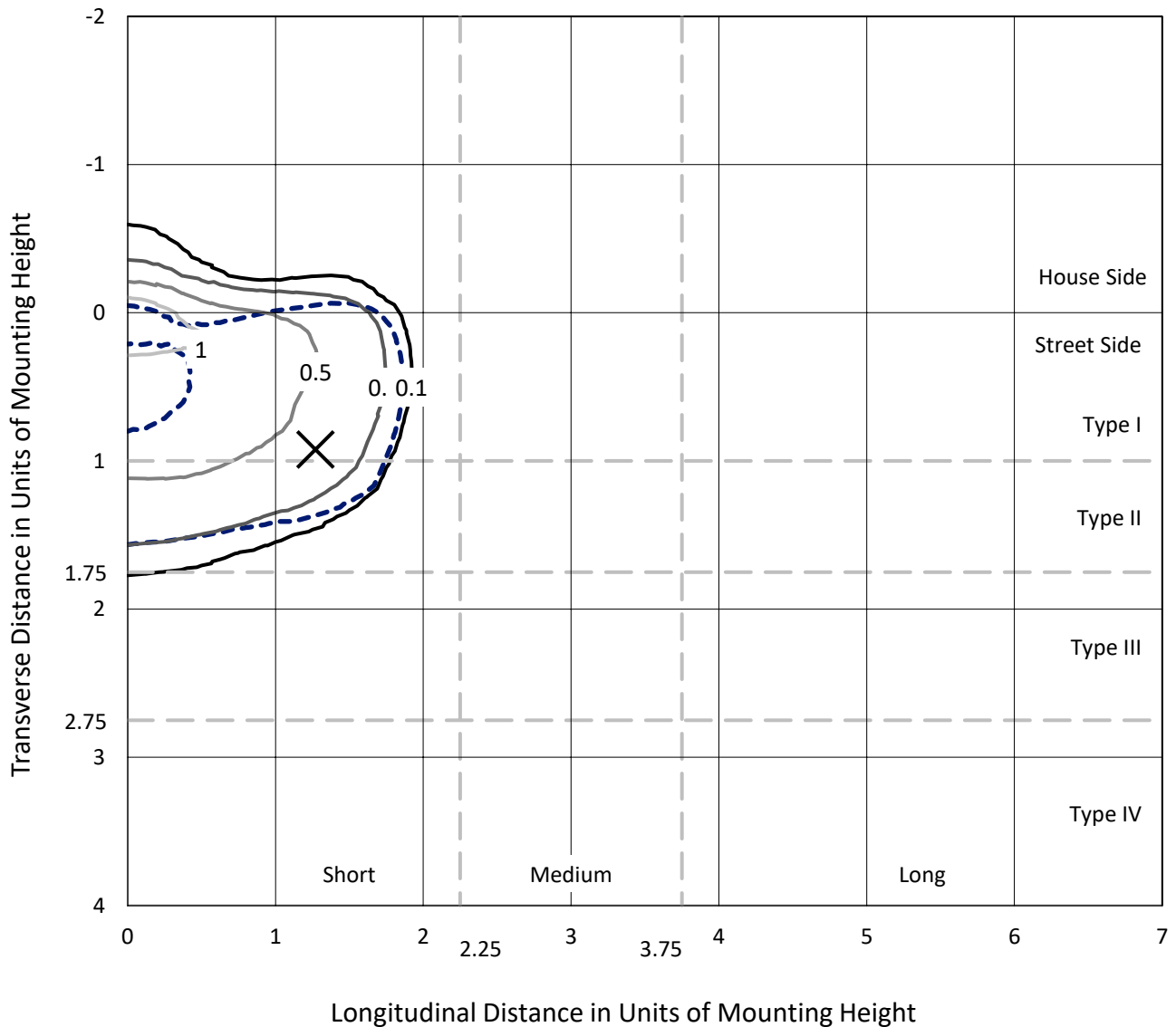
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

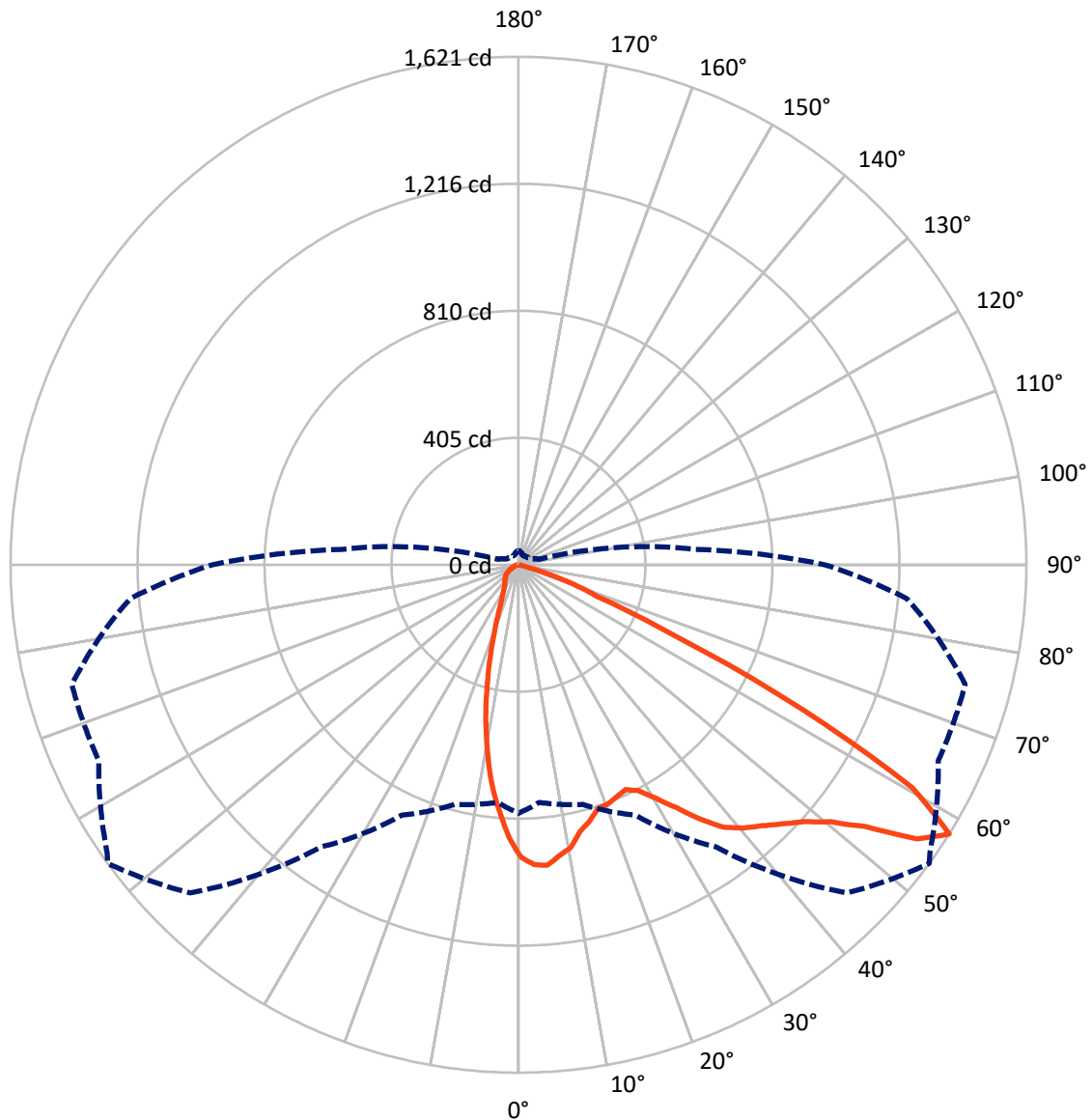
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA1A-835-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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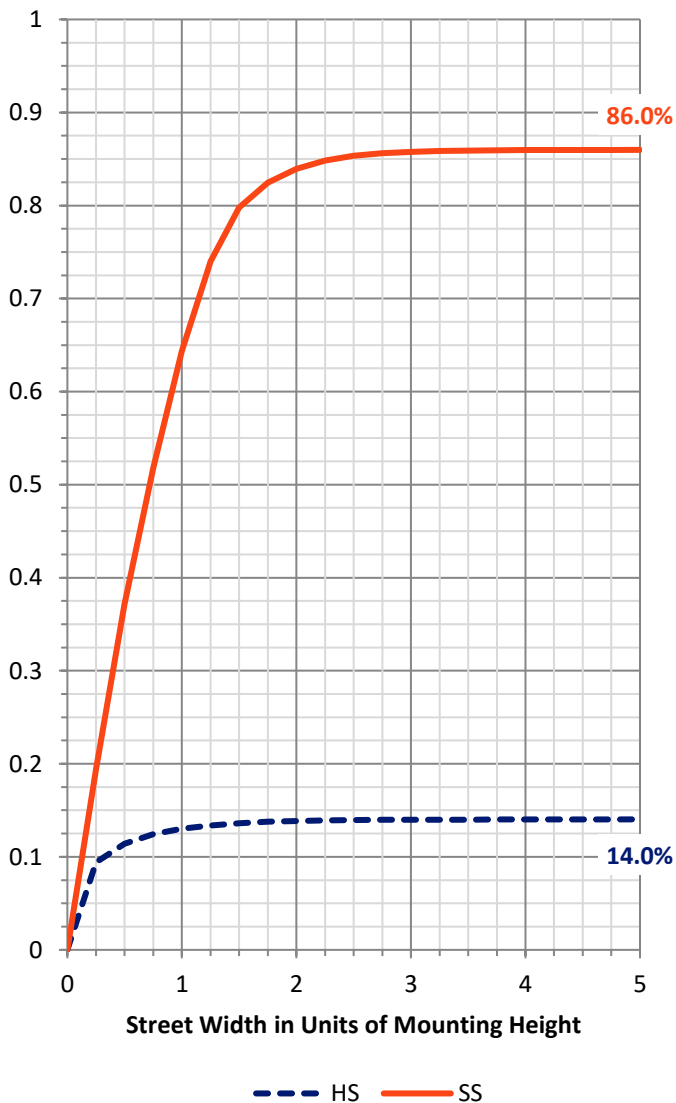
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	299.4	0.0	299.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	1819.4	0.0	1819.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	2118.8	0.0	2118.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.7
10°-20°	166.8	7.9
20°-30°	221.0	10.4
30°-40°	321.1	15.2
40°-50°	476.2	22.5
50°-60°	595.5	28.1
60°-70°	234.9	11.1
70°-80°	23.4	1.1
80°-90°	1.8	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°	2118.8	100.0
0°-180°	2118.8	100.0

Coefficient of Utilization

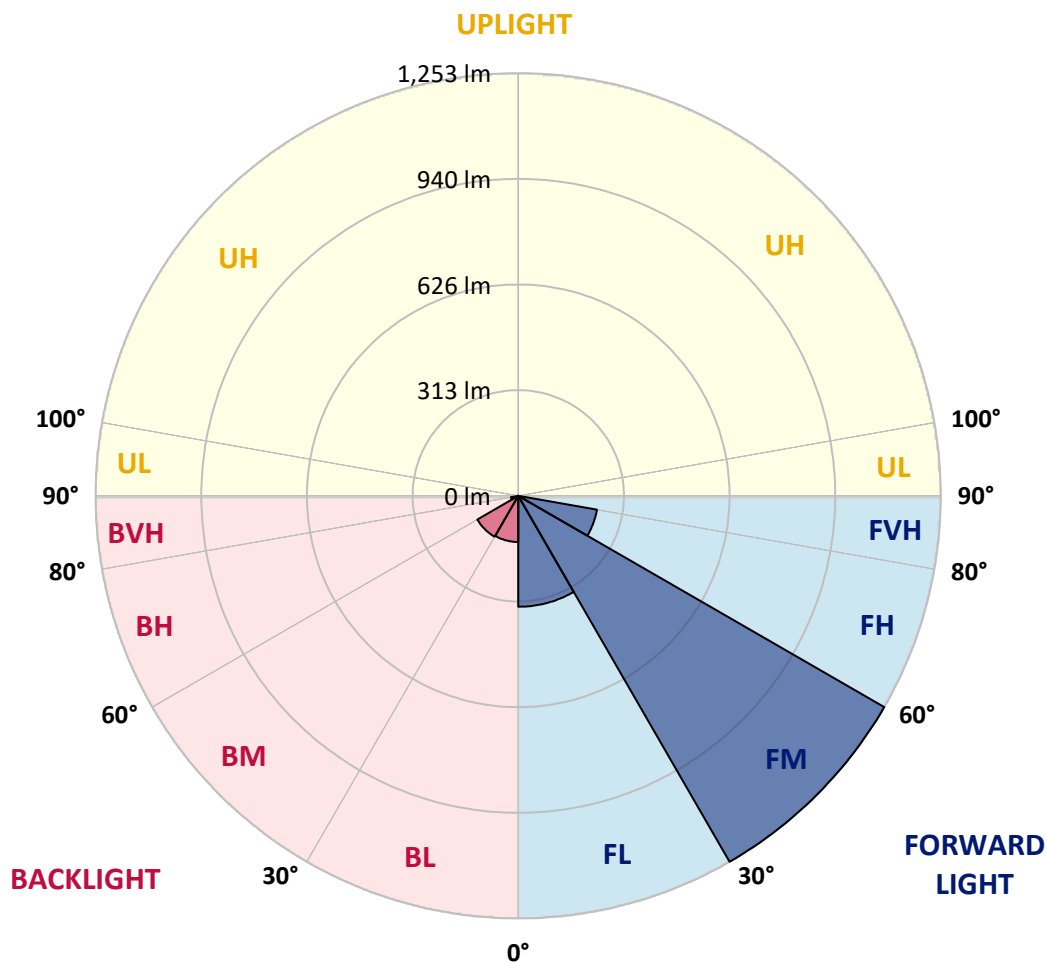


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.9	15.5			
FM (30°-60°)	1252.8	59.1			
FH (60°-80°)	236.8	11.2			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	136.9	6.5	B1/500		
BM (30°-60°)	140.0	6.6	B0/220		
BH (60°-80°)	21.5	1.0	B0/110		G0/110
BVH (80°-90°)	1.0	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3
2.5°	987.8	977.5	978.3	974.8	970.0	973.6	958.2	961.8	961.4	940.5	926.7
5°	962.9	974.0	962.5	971.9	962.9	972.7	963.3	956.2	944.8	929.4	903.8
7.5°	920.7	910.1	913.3	925.1	927.1	949.2	937.3	946.3	941.6	911.3	876.3
10°	836.0	833.7	849.5	865.2	884.5	908.1	917.2	912.1	908.5	897.1	850.3
12.5°	771.0	777.8	777.4	803.4	836.0	849.5	873.0	872.3	892.0	870.7	825.8
15°	709.2	712.7	729.3	745.4	781.7	819.9	849.0	853.0	876.6	861.7	806.9
17.5°	671.3	666.3	679.3	698.5	735.6	785.6	817.9	827.4	859.7	856.5	785.2
20°	633.9	633.9	644.6	667.4	701.3	757.6	815.2	812.4	859.7	850.7	761.9
22.5°	621.3	627.7	630.4	647.7	687.9	736.3	803.4	808.4	866.4	847.8	751.8
25°	638.7	630.4	631.2	645.0	682.8	726.2	794.7	806.1	878.6	861.7	743.5
27.5°	641.4	649.7	652.1	661.5	686.7	729.3	816.4	839.6	908.9	894.0	745.8
30°	665.5	673.7	673.3	689.5	706.8	754.9	864.8	869.5	971.5	934.5	760.4
32.5°	694.6	703.3	706.0	724.9	738.8	801.8	923.9	936.2	1031.8	998.4	798.6
35°	730.9	727.7	740.3	759.2	788.8	870.3	996.0	1016.5	1096.8	1081.1	838.0
37.5°	776.2	772.2	784.4	815.2	855.3	951.5	1062.6	1076.0	1144.1	1157.9	910.9
40°	808.1	809.6	846.7	888.1	930.6	1028.7	1104.7	1117.7	1177.2	1229.6	966.1
42.5°	861.2	871.1	915.6	966.1	1010.6	1086.6	1139.0	1151.6	1192.6	1287.2	1040.5
45°	938.5	934.1	983.4	1039.7	1089.0	1146.9	1179.6	1175.3	1201.7	1344.3	1087.4
47.5°	1037.8	1038.6	1071.2	1119.3	1170.5	1199.3	1224.9	1209.6	1220.5	1404.5	1150.1
50°	1105.5	1111.5	1137.9	1187.1	1212.7	1256.8	1289.5	1280.0	1276.5	1440.8	1189.5
52.5°	1122.9	1140.6	1154.8	1216.2	1276.1	1345.9	1387.6	1407.8	1344.6	1453.0	1239.5
55°	992.1	1007.8	1057.8	1142.2	1300.2	1486.9	1544.5	1544.9	1433.8	1507.4	1274.6
57.5°	793.1	761.2	791.9	881.3	1099.3	1481.0	1620.9	1602.3	1478.2	1475.5	1244.2
60°	548.4	540.6	542.5	578.0	760.8	1178.0	1444.4	1468.4	1361.2	1278.9	984.9
62.5°	434.6	427.9	419.2	415.2	472.4	734.0	1018.8	1052.7	951.9	829.4	583.9
65°	340.4	336.5	337.6	353.4	353.0	416.5	557.1	543.3	435.0	321.5	183.6
67.5°	229.7	235.6	240.3	288.0	312.4	289.9	269.1	261.2	141.4	59.5	40.6
70°	129.2	130.0	135.1	180.1	237.2	225.0	185.6	185.6	70.5	21.7	23.3
72.5°	70.5	68.1	63.4	77.6	105.6	107.2	82.8	72.1	20.9	14.2	13.0
75°	34.3	33.9	29.1	24.0	22.9	18.9	14.6	13.4	9.5	9.1	7.9
77.5°	7.1	6.7	3.5	3.5	3.9	4.3	5.5	5.5	6.7	6.7	5.5
80°	0.0	0.0	0.4	1.6	2.7	3.9	4.7	4.7	5.5	5.5	4.3
82.5°	0.0	0.0	0.4	1.2	2.3	3.5	4.3	4.7	5.5	5.9	4.7
85°	0.0	0.0	0.0	0.8	2.0	2.7	2.3	2.3	2.0	1.6	0.8
87.5°	0.0	0.0	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



REPORT NUMBER: P647713

CATALOG NUMBER: GALN-SA1A-835-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3	933.3
2.5°	919.6	918.8	900.7	890.4	871.9	855.7	842.7	833.3	833.3	827.4	821.8
5°	893.6	886.9	848.2	823.4	788.4	762.4	744.6	730.9	709.2	715.1	691.9
7.5°	861.2	844.3	793.1	755.3	706.8	669.8	632.0	598.4	566.2	551.5	559.5
10°	826.6	797.0	728.1	668.2	607.9	540.2	496.0	442.5	409.4	407.4	398.7
12.5°	790.0	756.5	672.5	589.8	510.6	429.1	361.7	311.6	289.2	264.3	269.1
15°	762.4	712.7	610.7	511.0	405.8	323.5	255.7	217.1	195.8	189.9	187.9
17.5°	732.4	679.3	547.6	427.0	318.4	232.9	184.0	165.4	157.2	157.2	156.1
20°	701.3	641.4	485.0	349.1	238.7	173.7	147.4	141.4	141.0	140.6	140.6
22.5°	680.8	598.1	428.3	277.3	180.1	139.1	128.0	125.7	127.2	132.0	132.0
25°	659.1	556.3	365.6	213.9	139.5	119.4	113.1	114.6	118.6	122.9	121.4
27.5°	637.0	529.2	306.5	167.9	114.2	104.4	102.0	105.6	109.9	113.8	112.7
30°	632.0	499.9	250.6	127.2	98.1	91.0	92.6	95.8	100.1	101.6	103.2
32.5°	639.9	477.1	205.3	104.4	85.5	83.5	83.5	85.1	87.9	91.4	90.2
35°	662.3	464.1	162.3	90.6	78.4	76.4	76.0	77.6	79.2	80.3	79.2
37.5°	696.6	453.9	132.8	80.3	73.7	70.5	69.8	69.4	70.9	71.3	72.1
40°	740.3	459.4	112.7	74.1	69.0	65.4	63.0	63.0	63.0	64.2	64.6
42.5°	787.6	466.9	97.3	70.5	64.6	60.3	57.9	57.2	57.9	59.5	59.1
45°	837.3	481.5	87.5	65.0	60.7	55.1	52.0	51.2	53.2	56.4	56.0
47.5°	883.7	502.4	79.9	61.5	56.8	51.6	47.7	46.9	50.4	54.7	55.1
50°	930.2	538.5	77.2	58.7	53.9	48.1	44.6	43.8	47.7	53.2	54.3
52.5°	983.8	577.6	75.2	55.1	50.8	45.3	41.3	40.6	44.9	52.0	52.4
55°	1018.8	610.7	73.7	48.9	44.9	41.0	37.8	37.4	42.1	48.5	50.0
57.5°	977.9	564.6	68.1	42.5	38.2	36.3	33.5	33.5	37.4	43.3	44.6
60°	741.5	371.5	48.5	34.3	32.3	31.2	29.9	29.9	33.1	37.4	37.8
62.5°	434.2	200.1	31.2	27.6	27.6	26.4	24.4	24.4	27.6	29.9	30.3
65°	128.8	64.2	25.2	23.6	23.3	21.3	19.3	18.9	21.3	22.5	22.1
67.5°	37.0	29.5	20.9	19.7	19.3	16.1	15.0	14.6	15.0	14.2	13.8
70°	22.1	20.1	16.1	16.5	14.6	11.8	10.6	10.3	9.5	8.3	7.5
72.5°	12.2	12.2	11.8	12.6	10.3	7.9	6.7	5.5	4.3	3.5	3.1
75°	7.5	7.9	8.3	8.7	6.7	5.1	4.3	2.7	1.6	0.8	0.8
77.5°	5.1	5.5	5.9	6.3	5.5	4.7	3.5	2.0	0.4	0.0	0.0
80°	3.9	4.3	5.1	5.5	5.9	6.3	4.7	2.0	0.4	0.0	0.0
82.5°	4.3	4.7	5.9	5.5	5.5	5.5	4.3	2.0	0.4	0.0	0.0
85°	0.8	1.2	2.0	2.0	2.7	3.5	2.7	0.8	0.0	0.0	0.0
87.5°	0.0	0.0	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)