

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: P651676

Luminaire Tested: **GALN-SA1A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3856.8 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

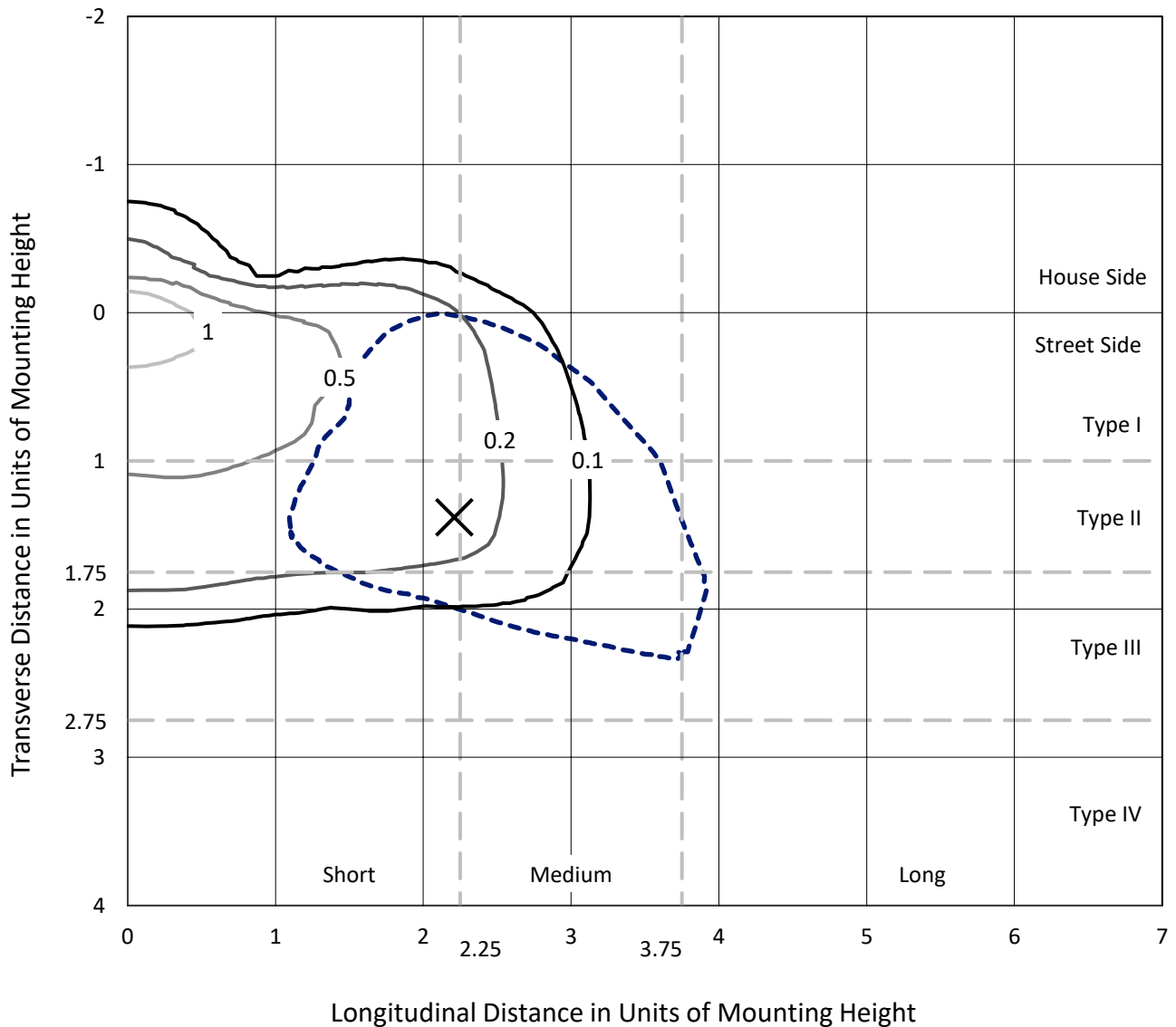
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

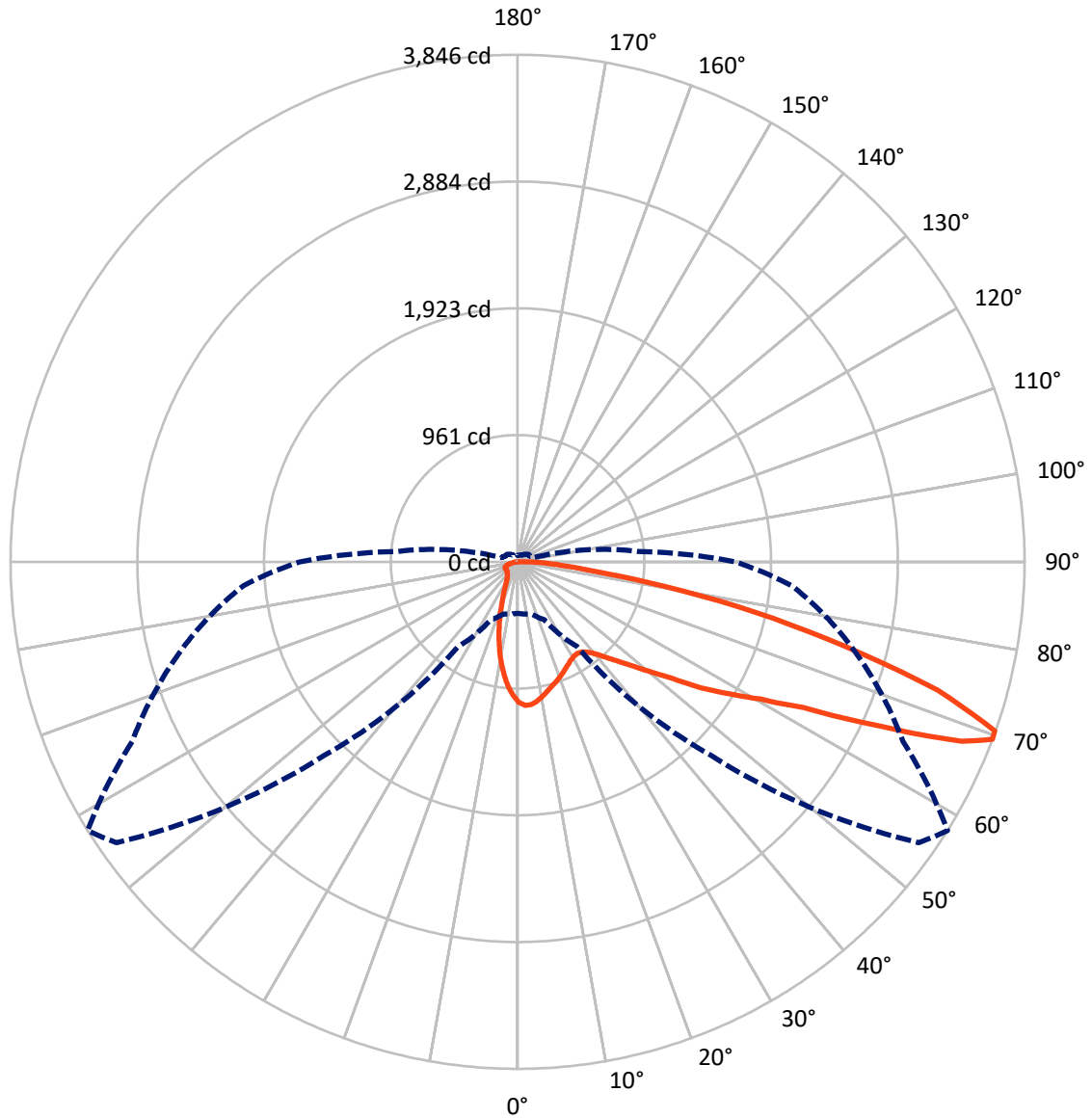
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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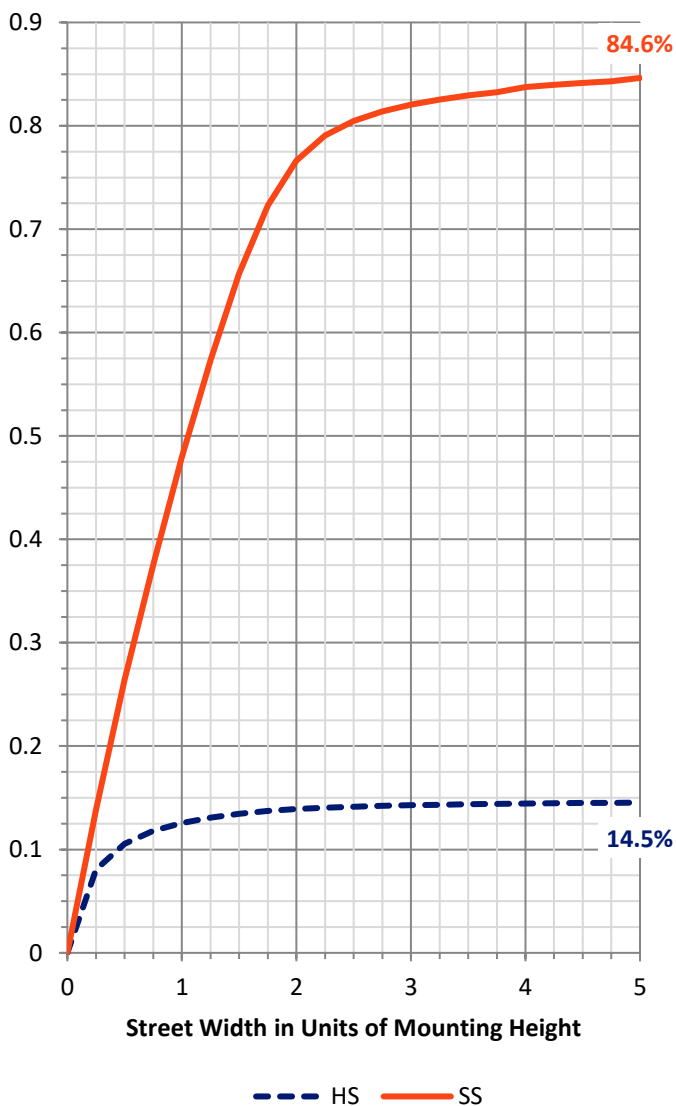
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	565.2	0.0	565.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3291.6	0.0	3291.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	3856.8	0.0	3856.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	2.3
10°-20°	198.8	5.2
20°-30°	256.8	6.7
30°-40°	333.5	8.6
40°-50°	484.9	12.6
50°-60°	773.7	20.1
60°-70°	1033.6	26.8
70°-80°	595.8	15.4
80°-90°	89.2	2.3
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°	3856.8	100.0
0°-180°	3856.8	100.0

Coefficient of Utilization



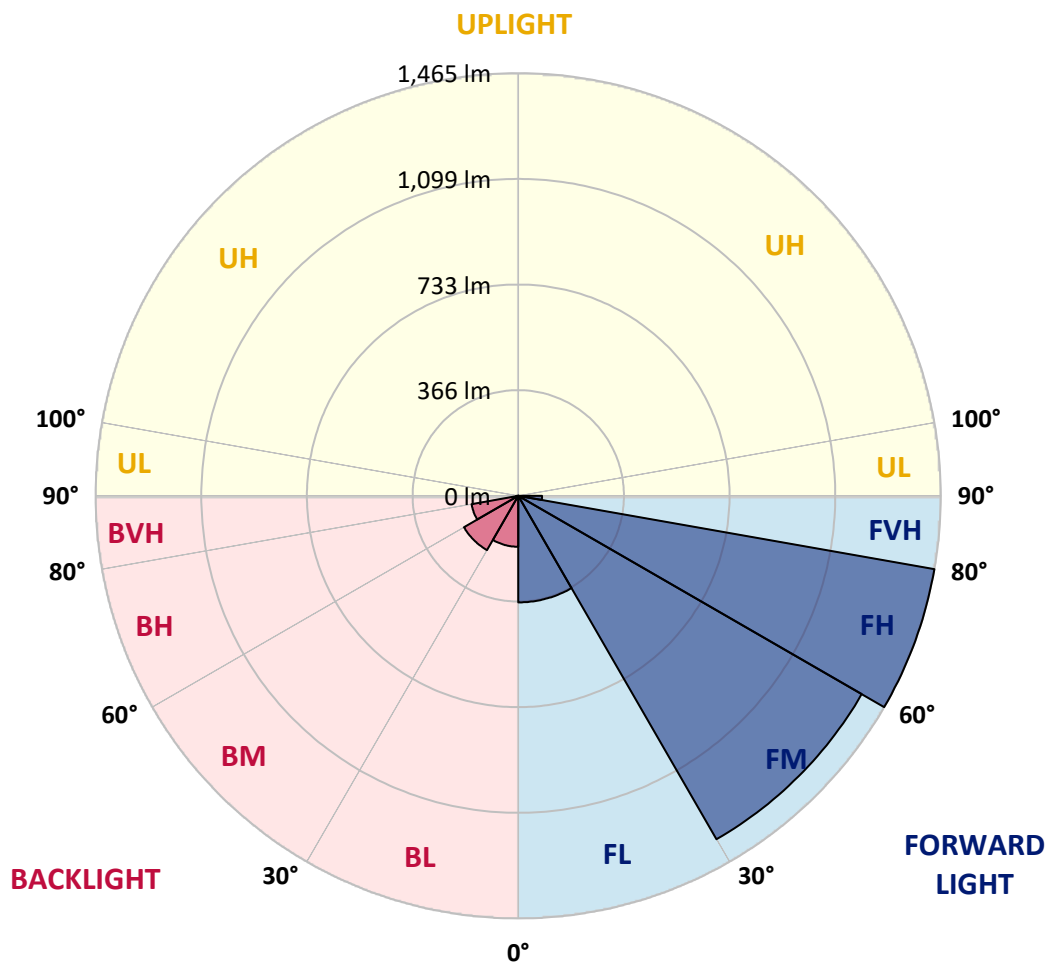
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.4	9.6			
FM (30°-60°)	1374.8	35.6			
FH (60°-80°)	1465.1	38.0			G1/1800
FVH (80°-90°)	82.4	2.1			G1/100
BL (0°-30°)	176.7	4.6	B1/500		
BM (30°-60°)	217.4	5.6	B0/220		
BH (60°-80°)	164.4	4.3	B1/500		G1/500
BVH (80°-90°)	6.8	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1105.4	1108.4	1107.5	1106.4	1104.7	1100.0	1092.3	1090.9	1086.0	1075.5	1062.4
5°	1088.4	1090.9	1091.2	1092.7	1094.8	1094.0	1088.4	1087.7	1080.4	1066.2	1044.3
7.5°	1030.1	1033.5	1041.1	1049.5	1057.0	1064.1	1065.8	1066.9	1062.4	1046.0	1016.8
10°	964.5	967.9	971.4	983.9	1002.4	1020.0	1034.6	1036.5	1037.6	1022.6	986.8
12.5°	891.8	898.9	906.2	924.7	949.4	977.2	1003.0	1007.1	1014.4	1003.0	961.0
15°	830.1	837.4	847.9	864.5	894.4	934.4	970.8	977.4	991.8	986.0	937.0
17.5°	787.3	789.9	797.2	816.1	848.3	890.5	939.1	952.4	975.5	974.0	916.3
20°	753.5	756.7	761.2	772.9	806.4	850.9	909.6	926.9	958.1	963.2	895.8
22.5°	739.3	741.7	741.0	747.2	770.0	814.8	879.8	900.2	942.6	955.9	876.9
25°	740.2	742.3	739.1	737.6	751.1	783.0	848.6	874.6	930.1	950.9	859.8
27.5°	754.5	756.1	750.0	744.0	745.1	763.1	822.8	851.6	919.5	953.1	845.3
30°	773.9	776.7	772.9	765.6	757.6	758.4	806.2	834.6	914.6	960.6	838.5
32.5°	798.9	801.5	799.7	793.9	783.6	772.2	802.1	828.3	915.0	975.9	837.0
35°	825.1	830.2	833.1	832.7	824.3	804.5	818.2	840.0	925.4	1001.5	845.8
37.5°	854.8	859.1	871.1	878.8	871.1	848.1	854.5	869.6	948.1	1038.5	865.1
40°	883.6	890.0	907.7	931.8	928.8	908.5	910.0	920.0	988.3	1093.6	903.0
42.5°	913.7	921.5	952.3	987.9	995.1	979.3	983.4	992.2	1045.6	1169.9	967.9
45°	952.4	961.7	999.5	1044.1	1072.0	1062.4	1074.0	1078.2	1122.1	1269.3	1053.5
47.5°	1002.4	1013.1	1059.7	1115.3	1154.9	1163.7	1183.9	1181.3	1217.0	1387.0	1164.5
50°	1086.5	1092.5	1136.5	1193.1	1247.5	1287.3	1309.3	1313.4	1334.7	1501.4	1288.7
52.5°	1186.5	1191.9	1223.7	1273.2	1341.3	1425.7	1479.8	1466.5	1471.7	1640.8	1433.8
55°	1298.9	1308.0	1328.2	1361.2	1449.5	1573.7	1682.5	1685.7	1628.5	1774.1	1573.0
57.5°	1386.1	1401.4	1436.0	1482.9	1595.0	1738.2	1884.4	1886.6	1813.4	1916.5	1726.6
60°	1342.2	1360.2	1439.5	1553.7	1785.7	2025.4	2125.8	2113.5	1993.5	2078.7	1913.9
62.5°	1152.9	1156.1	1271.3	1449.7	1844.5	2409.5	2485.0	2433.2	2233.8	2284.3	2104.3
65°	746.1	767.2	858.4	1108.6	1651.5	2622.7	3114.4	2994.5	2570.6	2517.7	2263.6
67.5°	471.0	465.7	503.5	633.0	1135.9	2434.9	3651.5	3632.5	3011.1	2665.0	2225.6
69°	390.6	396.6	409.6	485.3	781.6	2078.9	3714.9	3845.7	3224.7	2653.4	2087.3
70°	354.2	357.1	370.6	430.2	603.2	1741.2	3610.8	3839.9	3308.6	2604.8	1987.0
72.5°	281.1	280.9	304.1	357.9	450.9	994.0	2964.9	3333.8	3214.8	2378.5	1641.8
75°	213.6	217.1	242.6	302.8	415.4	543.1	2069.0	2567.4	2567.6	1878.6	1024.5
77.5°	154.0	156.2	186.0	254.2	391.2	440.3	1378.1	1841.5	1731.1	860.8	322.0
80°	100.9	102.2	125.0	201.3	352.8	415.4	817.1	1127.1	816.5	228.4	106.5
82.5°	55.3	61.7	76.4	130.4	283.1	383.7	496.7	570.5	306.3	101.8	55.5
85°	27.8	29.4	43.1	76.1	185.0	317.5	345.9	327.1	158.1	50.5	28.8
87.5°	8.2	10.3	17.8	29.4	75.1	165.4	192.5	172.7	60.9	18.2	6.1
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°	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8	1065.8
2.5°	1057.0	1053.1	1035.9	1020.4	1006.3	991.2	978.5	967.3	968.3	968.6	957.1
5°	1032.9	1024.1	991.4	960.8	935.0	902.3	874.4	856.3	847.2	835.2	839.5
7.5°	1000.2	983.2	937.8	887.1	839.5	797.2	751.1	719.5	699.3	679.7	682.3
10°	966.4	939.1	873.0	805.9	744.5	676.7	618.0	567.7	530.3	516.2	507.0
12.5°	931.8	895.8	812.0	722.8	637.7	556.7	473.4	419.4	378.1	356.2	359.0
15°	900.2	856.5	748.3	639.5	529.2	432.5	349.5	298.1	269.3	263.3	266.7
17.5°	870.9	813.7	688.8	558.6	429.8	324.4	262.6	233.6	221.9	218.7	218.6
20°	840.8	777.3	621.8	472.1	334.9	251.5	215.5	202.0	199.8	201.1	201.3
22.5°	810.3	732.4	553.0	386.3	266.7	205.6	188.4	184.8	186.4	189.5	189.9
25°	782.1	692.8	486.8	311.0	212.9	180.6	172.3	172.3	176.2	180.6	180.9
27.5°	758.8	654.6	420.8	246.9	178.3	162.6	159.8	161.3	166.7	170.1	170.4
30°	739.7	618.8	358.4	197.9	156.8	148.2	147.6	150.1	154.0	157.3	157.4
32.5°	725.3	587.4	300.1	166.3	142.0	137.3	137.0	138.9	141.1	142.0	142.8
35°	719.7	561.4	246.7	146.2	132.0	129.1	129.1	128.8	129.7	130.1	130.5
37.5°	724.3	541.4	205.5	133.4	124.7	122.6	121.3	120.0	119.6	119.6	119.8
40°	743.4	530.8	174.7	125.0	119.6	116.4	114.0	112.5	111.0	111.4	111.9
42.5°	784.1	532.8	153.8	119.3	115.0	110.6	107.1	105.4	104.3	105.6	105.4
45°	848.7	552.1	140.4	115.5	110.6	104.8	101.5	99.8	99.8	101.8	102.3
47.5°	939.3	589.1	133.4	112.5	107.1	100.2	97.0	95.7	96.1	99.4	99.6
50°	1049.9	653.5	132.0	111.0	105.4	97.0	93.4	92.1	93.1	96.5	97.0
52.5°	1171.8	736.3	138.3	111.2	103.9	95.0	90.3	88.4	89.5	92.3	93.1
55°	1316.4	840.0	154.4	112.1	101.8	94.0	88.2	83.8	85.2	87.1	87.3
57.5°	1463.9	970.8	182.8	112.3	100.0	92.1	84.5	79.0	79.0	80.2	80.9
60°	1644.2	1113.1	220.3	112.5	100.2	89.2	79.6	73.3	72.5	73.2	73.3
62.5°	1823.1	1232.3	226.5	111.9	102.3	86.5	74.2	67.8	66.3	66.0	65.6
65°	1902.1	1210.1	185.6	108.8	104.8	84.8	69.9	62.4	59.8	59.0	59.0
67.5°	1773.5	1023.7	139.6	104.8	103.3	83.0	65.9	57.9	54.8	53.2	53.2
69°	1652.6	910.5	125.4	101.9	99.4	80.2	63.2	55.5	51.8	49.9	49.3
70°	1559.2	832.7	119.3	99.6	95.7	77.0	61.3	53.7	49.7	47.5	47.1
72.5°	1244.3	653.2	104.5	90.6	81.5	64.8	54.4	48.4	44.5	42.1	41.5
75°	717.1	354.1	86.7	78.7	65.6	50.3	46.0	42.1	39.1	37.0	36.3
77.5°	220.7	136.8	62.8	62.1	48.2	38.9	36.8	35.2	33.1	30.8	30.4
80°	92.9	69.7	42.6	42.0	32.0	27.1	26.5	26.2	25.4	23.5	22.8
82.5°	51.0	39.4	29.7	25.8	19.3	15.7	16.3	16.6	15.9	14.0	12.7
85°	25.0	21.5	14.4	11.6	8.8	5.6	5.4	6.5	6.1	4.3	4.7
87.5°	5.0	6.1	3.9	1.7	0.8	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)