

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: P652173

Luminaire Tested: **GALN-SA1B-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4739.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

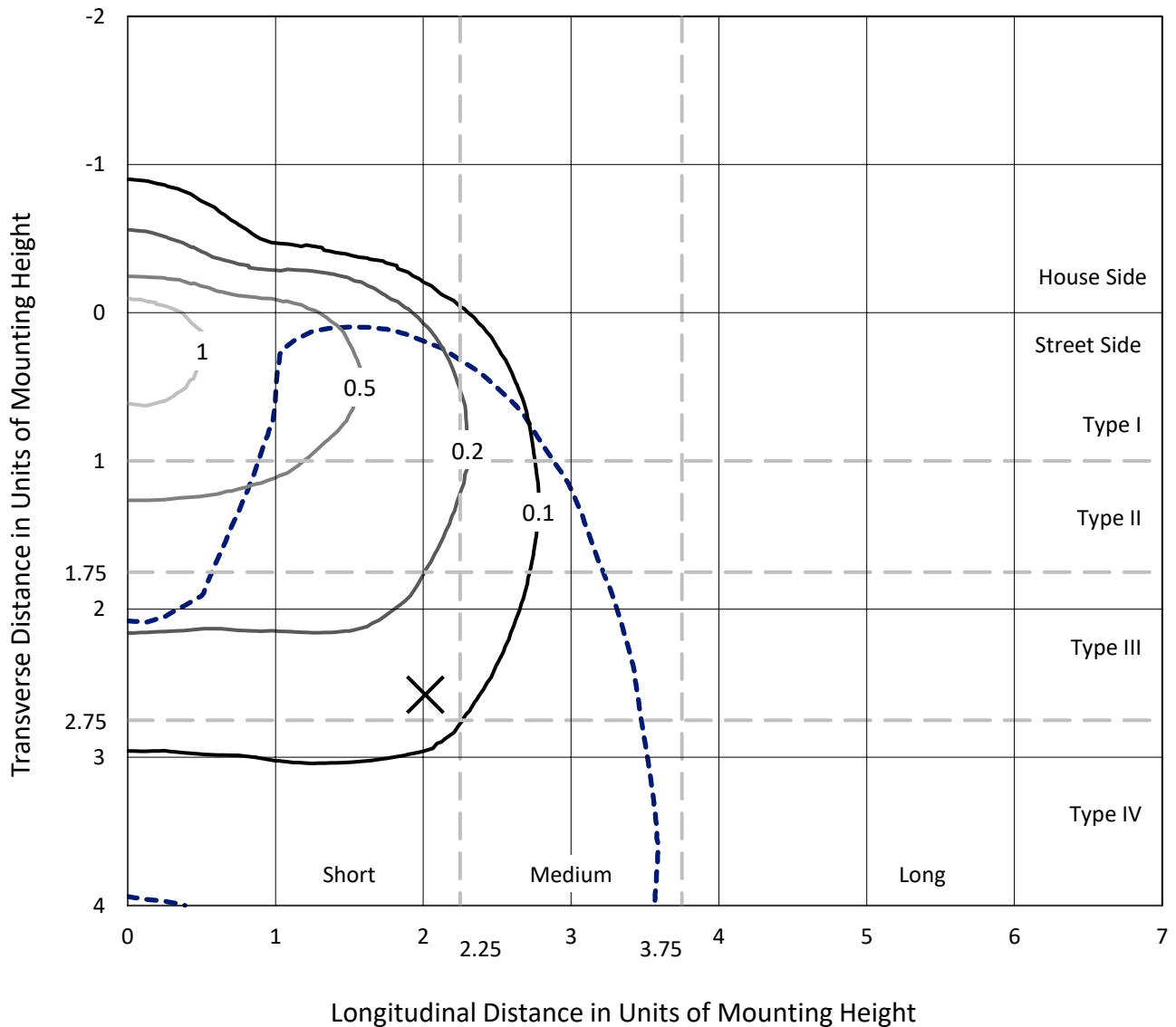
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652173
 CATALOG NUMBER: GALN-SA1B-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

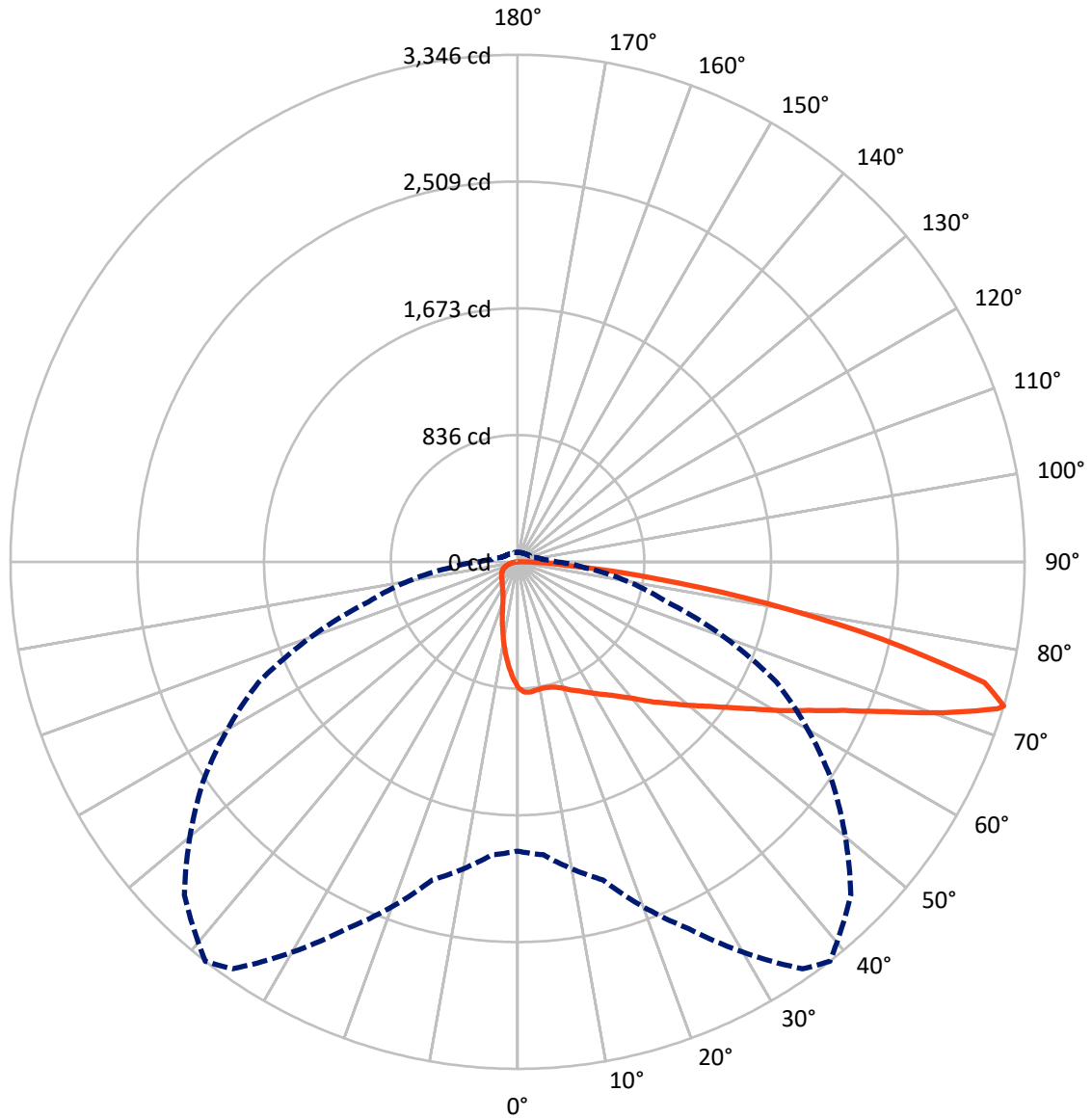
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P652173
CATALOG NUMBER: GALN-SA1B-840-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P652173
 CATALOG NUMBER: GALN-SA1B-840-U-SL4

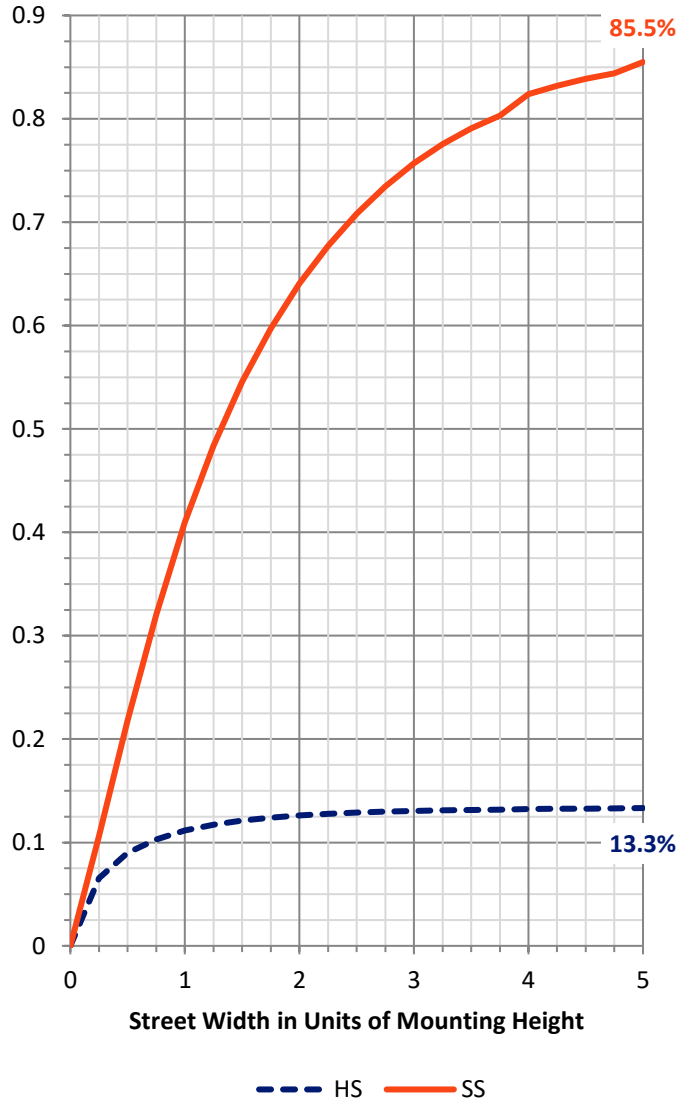
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.2	0.0	637.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4102.7	0.0	4102.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	4739.9	0.0	4739.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.5
10°-20°	186.4	3.9
20°-30°	290.3	6.1
30°-40°	425.7	9.0
40°-50°	631.5	13.3
50°-60°	894.7	18.9
60°-70°	1135.0	23.9
70°-80°	944.8	19.9
80°-90°	158.7	3.3
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°	4739.9	100.0
0°-180°	4739.9	100.0

Coefficient of Utilization



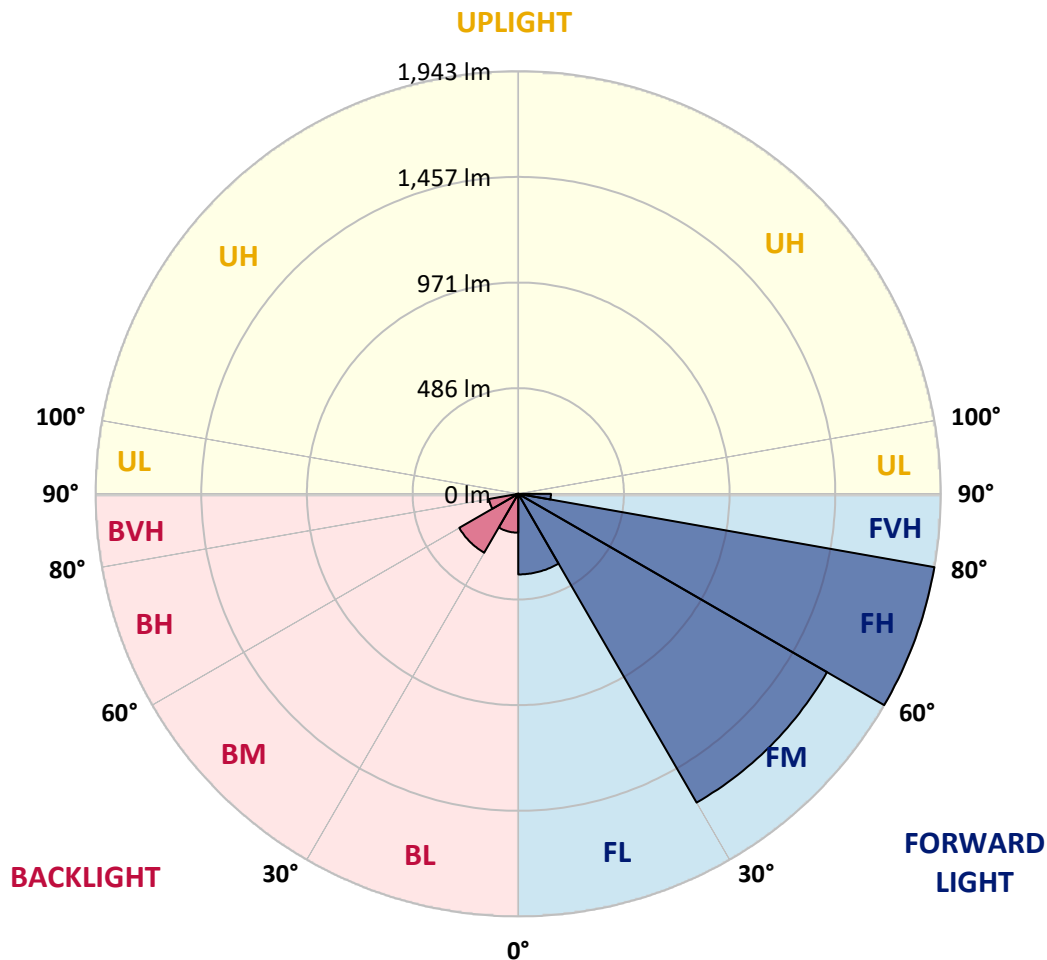
REPORT NUMBER: P652173
 CATALOG NUMBER: GALN-SA1B-840-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.5	7.8			
FM (30°-60°)	1639.2	34.6			
FH (60°-80°)	1942.9	41.0			G2/5000
FVH (80°-90°)	150.1	3.2			G2/225
BL (0°-30°)	178.8	3.8	B1/500		
BM (30°-60°)	312.8	6.6	B1/1000		
BH (60°-80°)	137.0	2.9	B1/500		G1/500
BVH (80°-90°)	8.6	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-G2

Type IV Short





REPORT NUMBER: P652173

CATALOG NUMBER: GALN-SA1B-840-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7
2.5°	866.1	870.4	868.3	865.4	863.5	861.6	858.9	851.2	845.0	838.3	827.9
5°	872.6	875.3	873.4	869.7	865.4	863.5	858.4	848.2	838.3	827.1	811.6
7.5°	868.8	869.9	867.7	863.2	859.5	856.0	850.1	838.9	826.8	813.2	792.8
10°	855.5	859.5	859.5	855.7	852.0	850.1	844.2	833.5	822.6	807.0	783.0
12.5°	844.5	848.7	852.3	851.2	850.9	850.9	846.4	838.3	825.5	810.8	782.1
15°	837.0	842.1	849.6	853.9	856.6	857.3	855.5	848.5	835.4	818.3	785.3
17.5°	835.4	841.6	855.2	864.5	871.5	871.3	870.7	861.1	846.6	829.0	789.4
20°	842.6	850.7	869.7	884.4	894.6	892.6	889.7	877.2	860.3	840.5	793.1
22.5°	864.3	872.6	893.5	909.5	919.5	919.5	910.6	894.0	876.1	853.9	798.2
25°	895.3	904.4	926.7	943.0	947.6	944.1	935.2	915.2	894.6	873.1	808.9
27.5°	933.3	944.4	965.0	978.6	977.2	974.6	965.5	939.8	919.2	899.6	827.1
30°	980.8	988.8	1010.2	1013.4	1008.6	1008.0	995.2	969.5	950.2	935.2	853.0
32.5°	1025.4	1032.7	1049.8	1051.2	1042.6	1043.6	1031.6	1008.0	997.1	991.7	896.7
35°	1072.8	1076.6	1091.3	1089.7	1084.0	1083.3	1078.4	1056.0	1059.4	1069.1	958.5
37.5°	1112.4	1120.0	1128.2	1129.5	1129.3	1132.0	1135.2	1124.5	1144.5	1174.8	1039.6
40°	1148.8	1155.3	1167.6	1171.8	1182.3	1187.7	1198.6	1198.8	1245.2	1295.0	1139.5
42.5°	1173.4	1184.5	1207.4	1215.2	1240.6	1256.7	1273.0	1290.4	1357.6	1421.6	1257.2
45°	1194.9	1209.4	1247.6	1271.7	1306.2	1325.8	1360.3	1396.7	1493.3	1577.1	1376.9
47.5°	1227.3	1240.1	1284.0	1326.6	1378.7	1401.3	1452.9	1507.2	1633.6	1725.4	1491.4
50°	1272.3	1280.0	1324.7	1394.0	1460.6	1489.6	1557.9	1636.2	1783.5	1871.8	1592.1
52.5°	1329.8	1333.0	1368.6	1460.9	1548.7	1584.6	1675.1	1766.6	1914.6	1999.0	1671.8
55°	1397.7	1392.4	1420.3	1531.9	1649.4	1696.2	1793.3	1898.6	2062.1	2101.7	1729.9
57.5°	1464.9	1456.6	1478.9	1618.1	1773.6	1830.0	1943.3	2034.5	2193.8	2197.8	1770.6
60°	1536.2	1530.0	1556.5	1719.3	1925.9	1992.7	2097.5	2175.6	2321.2	2264.7	1777.0
62.5°	1609.3	1599.3	1637.1	1833.0	2097.5	2158.2	2259.7	2325.5	2446.2	2289.6	1715.2
65°	1680.1	1675.6	1734.0	1968.2	2292.8	2361.9	2460.4	2505.1	2546.3	2252.2	1561.8
67.5°	1755.7	1764.8	1857.9	2148.6	2547.6	2634.4	2740.7	2698.6	2575.0	2074.7	1315.3
70°	1870.7	1876.6	2020.6	2384.9	2876.1	2980.8	3032.1	2767.4	2436.9	1737.7	988.8
72.5°	1920.3	1946.2	2166.0	2633.1	3249.2	3313.2	3130.1	2614.1	2030.0	1180.4	519.6
73°	1909.2	1940.4	2172.6	2670.8	3278.4	3345.6	3109.3	2535.1	1887.0	1016.6	445.4
75°	1772.5	1810.8	2085.7	2639.2	3221.6	3181.5	2773.6	2160.6	1275.2	462.3	202.9
77.5°	1398.6	1409.5	1652.6	2131.2	2537.0	2462.5	2075.8	1350.4	520.9	171.8	115.1
80°	701.6	742.0	931.5	1220.8	1696.5	1672.2	1310.3	638.7	217.1	100.9	76.3
82.5°	337.5	366.2	453.7	595.3	937.4	915.2	648.8	349.0	137.8	58.9	45.0
85°	217.3	238.8	288.8	284.0	385.4	368.0	291.5	264.2	81.7	30.8	31.3
87.5°	143.5	157.1	188.5	150.7	140.3	126.9	128.8	148.9	16.1	11.8	4.3
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: P652173
 CATALOG NUMBER: GALN-SA1B-840-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7	832.7
2.5°	823.6	820.1	808.6	797.4	786.7	776.5	769.9	761.0	755.1	756.7	759.1
5°	803.0	795.2	774.9	755.1	736.4	714.2	696.2	681.7	670.8	666.7	666.0
7.5°	781.3	768.2	739.1	705.0	673.2	645.6	613.8	598.0	579.5	573.1	571.0
10°	768.2	750.5	709.6	662.2	614.3	568.5	534.0	505.9	480.5	475.7	473.2
12.5°	764.5	741.2	686.0	625.0	561.3	505.1	454.0	417.1	392.4	386.8	378.4
15°	762.3	733.4	664.1	587.5	506.7	438.2	384.3	341.3	318.8	303.8	304.1
17.5°	760.4	724.6	639.5	546.6	459.6	380.6	321.2	282.4	261.8	253.7	253.0
20°	757.7	714.2	611.1	503.5	405.8	328.2	274.3	245.5	231.5	224.8	224.5
22.5°	756.7	704.0	583.2	459.6	358.2	287.7	243.3	222.9	214.1	209.6	209.6
25°	759.3	696.8	554.1	417.8	315.9	253.2	221.9	208.0	202.9	200.5	199.7
27.5°	767.7	693.5	525.2	376.1	277.0	229.7	207.5	197.8	194.0	192.2	192.4
30°	783.5	693.2	496.8	334.9	248.1	211.8	196.0	189.2	186.3	185.2	184.9
32.5°	808.9	699.1	468.9	300.8	223.8	196.7	185.2	180.4	179.0	178.3	178.0
35°	852.0	715.8	441.4	269.8	205.0	183.3	175.1	172.7	170.8	171.6	171.8
37.5°	910.0	744.4	415.1	245.5	190.8	173.4	166.5	164.3	163.2	164.1	164.9
40°	987.9	785.6	393.2	225.9	180.6	165.2	159.0	157.1	156.1	157.4	157.7
42.5°	1073.9	833.3	375.0	210.7	172.4	158.2	152.3	150.2	149.4	150.2	150.5
45°	1162.2	888.7	365.7	199.7	165.4	153.1	146.9	144.6	142.6	142.1	143.0
47.5°	1249.2	936.9	365.3	193.0	159.8	148.5	141.9	139.2	136.7	135.4	135.1
50°	1320.1	975.1	371.8	190.1	155.0	143.5	136.7	134.1	130.9	128.3	128.8
52.5°	1373.7	1000.0	374.7	188.7	152.3	138.1	131.4	129.0	125.3	121.8	121.8
55°	1408.2	1005.9	367.5	187.4	150.2	132.5	125.3	123.1	119.4	115.9	115.9
57.5°	1419.9	987.7	341.5	184.2	148.0	127.7	119.1	117.2	114.3	110.8	110.3
60°	1392.7	926.1	296.0	174.5	143.7	122.6	112.4	111.6	110.5	107.6	107.3
62.5°	1287.5	795.5	246.5	162.0	136.5	117.2	106.3	107.6	108.4	106.8	106.6
65°	1112.4	645.9	210.7	144.6	126.9	109.8	99.6	103.0	105.2	105.2	104.6
67.5°	902.3	496.0	177.5	129.5	114.8	99.6	92.1	94.8	96.4	95.8	97.1
70°	641.3	335.9	144.6	112.4	99.6	88.1	82.4	82.4	81.4	80.8	80.8
72.5°	311.0	191.9	117.2	93.9	84.9	75.2	70.6	68.8	66.7	66.4	65.0
73°	259.9	172.2	111.9	90.5	81.4	73.3	68.3	65.3	64.0	62.9	62.7
75°	158.2	130.6	93.4	76.3	69.3	63.2	58.6	55.9	54.6	53.8	53.6
77.5°	104.1	97.5	72.6	58.4	53.0	49.3	47.3	44.7	43.9	42.8	42.8
80°	77.6	74.4	51.9	41.2	38.0	34.8	34.2	33.7	31.6	30.3	29.7
82.5°	50.0	53.0	35.3	27.6	24.1	21.4	21.7	22.5	20.4	18.5	17.9
85°	35.6	38.3	21.4	12.6	10.2	8.8	9.9	8.8	9.1	7.2	5.9
87.5°	5.9	10.2	3.8	1.6	0.8	0.5	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)