

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: P944858

Luminaire Tested: **GALN-SB1A-727-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3352 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 30.9
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

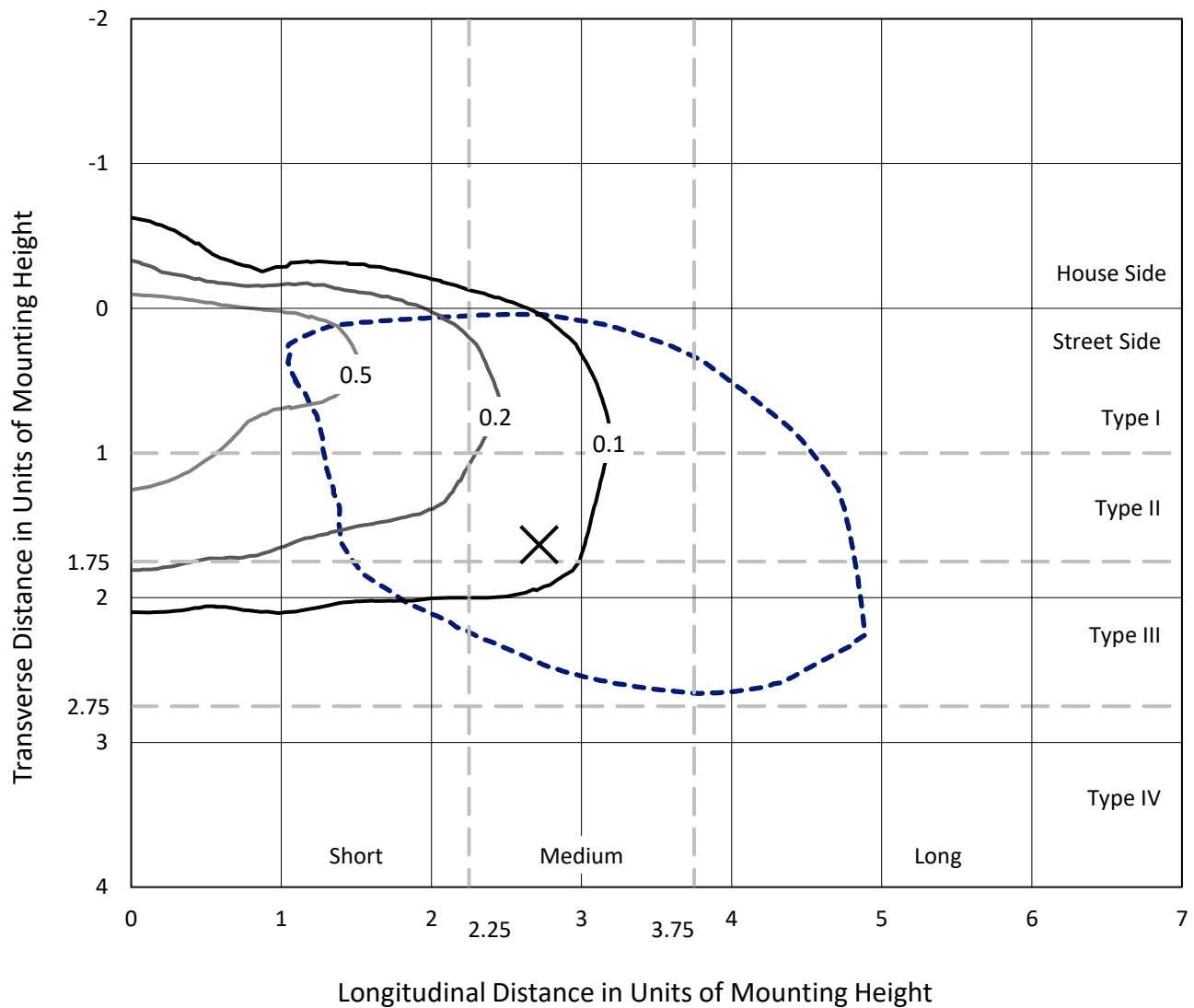


REPORT NUMBER: P944858

CATALOG NUMBER: GALN-SB1A-727-U-SL3-HSS

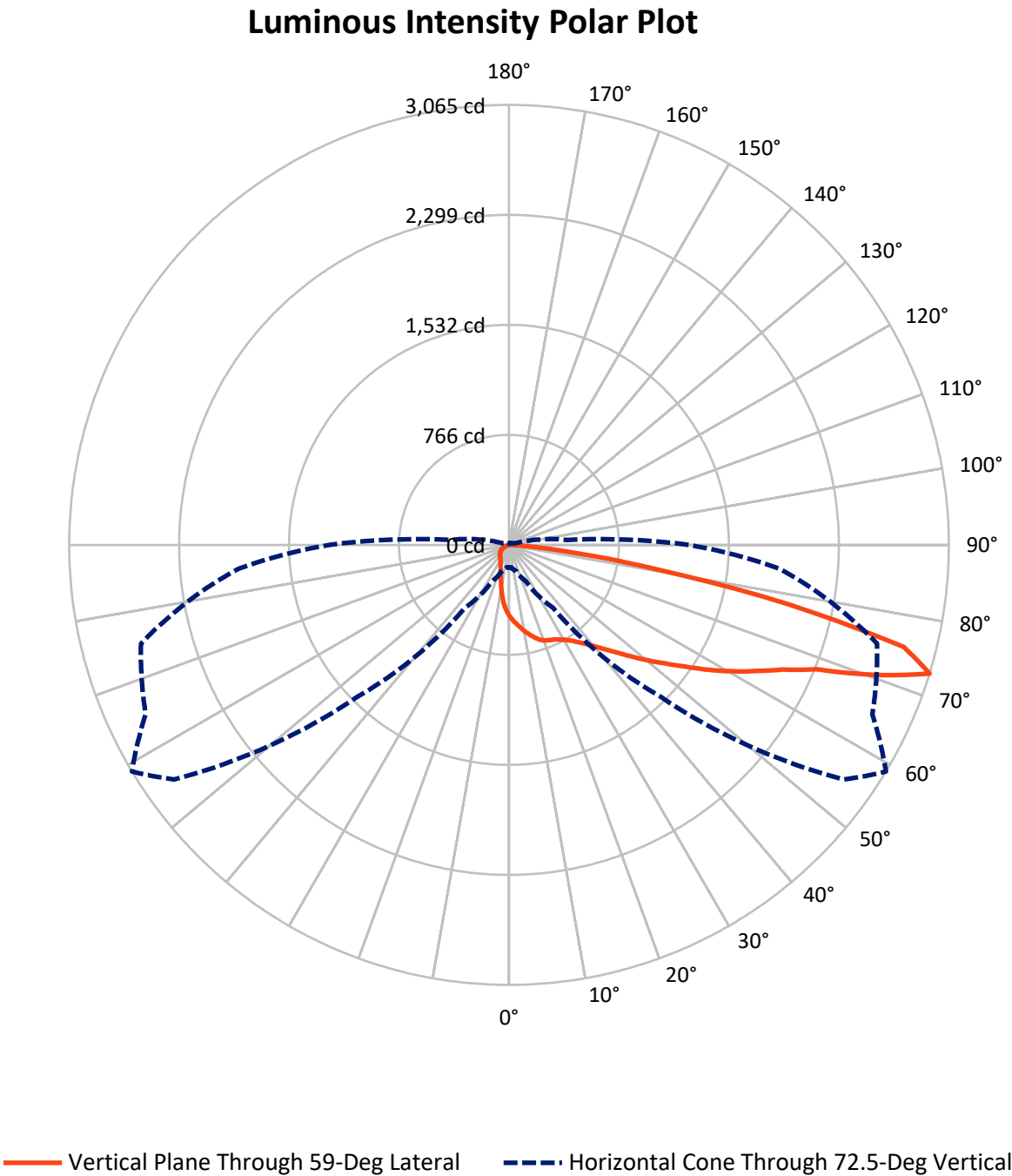
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Medium - N/A

REPORT NUMBER: P944858
CATALOG NUMBER: GALN-SB1A-727-U-SL3-HSS



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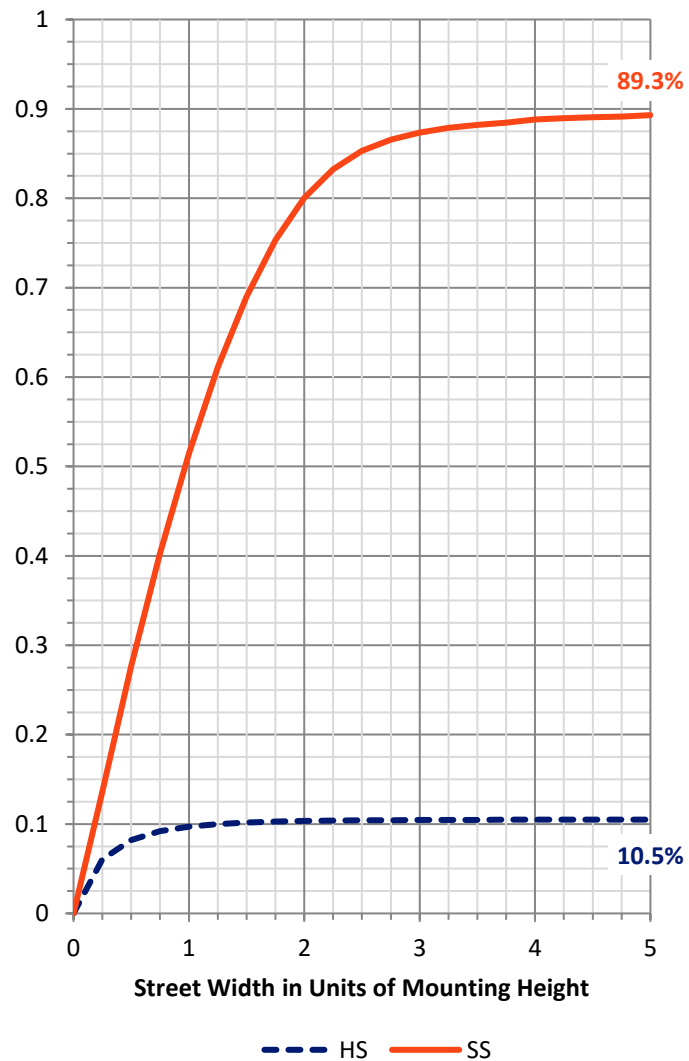
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	354.0	0.0	354.0
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2998.0	0.0	2998.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	3352.0	0.0	3352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	1.3
10°-20°	119.1	3.6
20°-30°	188.8	5.6
30°-40°	303.0	9.0
40°-50°	483.9	14.4
50°-60°	700.6	20.9
60°-70°	831.5	24.8
70°-80°	617.2	18.4
80°-90°	63.1	1.9
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°	3352.0	100.0
0°-180°	3352.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944858

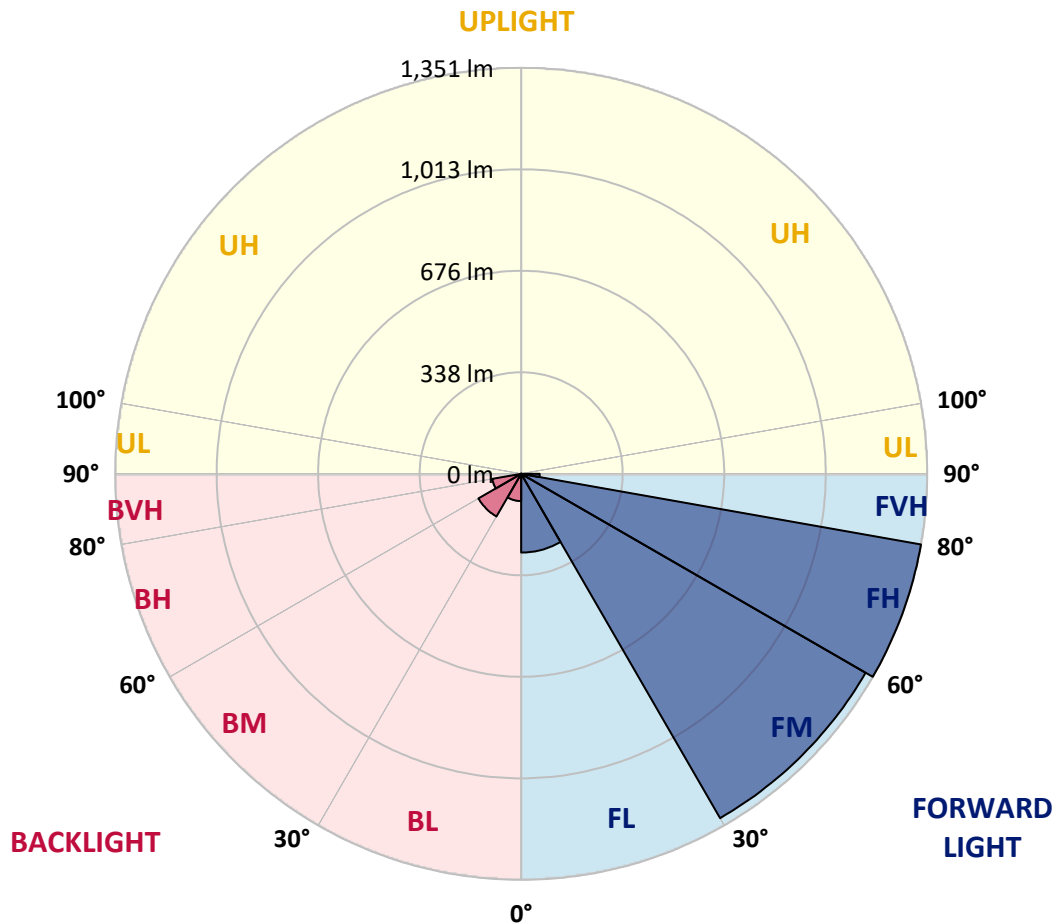
CATALOG NUMBER: GALN-SB1A-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.1	7.8			
FM	(30°-60°)	1323.3	39.5			
FH	(60°-80°)	1351.1	40.3			G1/1800
FVH	(80°-90°)	61.5	1.8			G1/100
BL	(0°-30°)	90.7	2.7	B0/110		
BM	(30°-60°)	164.1	4.9	B0/220		
BH	(60°-80°)	97.6	2.9	B0/110		G0/110
BVH	(80°-90°)	1.6	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 Medium



REPORT NUMBER: P944858

CATALOG NUMBER: GALN-SB1A-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7
2.5°	550.0	546.9	547.3	542.1	538.4	534.4	526.8	525.7	520.2	510.6	500.7
5°	597.9	595.9	594.2	588.3	580.6	571.0	558.1	553.5	543.4	526.8	507.5
7.5°	632.9	630.5	631.4	625.5	619.3	608.6	590.9	582.3	569.0	543.6	514.5
10°	639.7	638.4	644.1	646.2	646.2	639.5	622.2	613.6	594.2	561.8	521.7
12.5°	601.6	601.8	616.0	633.1	655.4	661.8	650.2	641.0	621.7	581.0	530.9
15°	557.2	557.4	571.2	593.1	629.6	666.2	675.4	669.4	649.5	601.8	541.6
17.5°	530.5	529.4	538.6	556.5	594.8	646.2	690.7	694.6	678.4	624.8	553.5
20°	526.8	524.8	529.6	538.6	565.9	621.3	692.4	711.0	708.2	650.8	567.0
22.5°	549.5	546.5	543.8	544.3	555.9	600.5	688.0	720.2	738.8	682.1	585.6
25°	594.6	589.8	581.2	570.3	567.9	596.1	685.0	730.3	767.3	722.2	610.1
27.5°	649.7	643.0	626.5	610.1	596.1	608.4	691.3	746.3	799.4	768.8	638.6
30°	710.4	702.1	685.6	654.6	632.2	635.7	706.4	767.3	840.6	821.5	674.3
32.5°	799.4	780.2	751.5	704.0	674.5	665.3	729.2	794.0	891.6	891.8	725.9
35°	875.8	865.1	836.2	777.1	716.5	704.5	759.2	831.6	962.3	984.8	798.1
37.5°	925.9	911.3	885.9	841.5	781.7	744.7	799.2	877.8	1037.1	1090.7	887.2
40°	982.0	967.5	933.8	892.0	857.4	813.9	849.8	931.0	1119.2	1199.5	989.0
42.5°	1049.6	1030.8	990.9	945.8	909.7	904.9	915.9	997.3	1203.4	1317.7	1094.9
45°	1129.0	1111.3	1065.5	1008.7	976.9	968.4	999.0	1074.5	1297.3	1447.2	1201.9
47.5°	1203.4	1182.9	1133.6	1081.7	1046.5	1019.6	1087.4	1165.8	1403.7	1582.7	1303.0
50°	1266.7	1245.7	1200.6	1145.2	1121.4	1086.1	1174.3	1267.5	1509.1	1720.3	1395.3
52.5°	1310.0	1291.4	1238.4	1200.8	1184.6	1166.9	1276.1	1375.4	1614.2	1846.4	1486.6
55°	1300.2	1283.5	1236.9	1234.3	1233.2	1251.8	1397.8	1497.8	1721.2	1965.7	1577.4
57.5°	1268.9	1250.0	1191.8	1231.9	1270.6	1327.5	1529.5	1642.4	1838.5	2078.1	1665.0
60°	1176.7	1170.2	1134.7	1227.3	1286.4	1401.7	1680.1	1787.7	1965.4	2177.1	1742.7
62.5°	981.7	987.4	987.2	1236.9	1314.8	1486.2	1816.8	1934.8	2089.5	2272.3	1811.8
65°	735.1	754.8	780.0	1150.2	1352.9	1637.0	1980.3	2094.3	2215.6	2383.0	1882.1
67.5°	493.9	509.7	526.8	943.7	1239.5	1795.4	2251.9	2313.0	2366.6	2505.8	1961.1
70°	282.7	287.8	311.6	589.3	955.5	1751.6	2694.2	2716.3	2591.8	2657.0	2018.6
72.5°	158.4	156.7	188.2	279.7	534.0	1500.0	2849.1	3064.7	2793.3	2654.6	1890.2
75°	105.9	106.1	129.6	176.4	208.1	1050.0	2455.2	2841.7	2672.5	2353.9	1544.4
77.5°	72.2	74.6	95.2	136.3	96.3	512.3	1624.3	1990.6	2163.7	1817.7	1066.2
80°	31.3	31.5	62.8	97.8	65.0	163.0	842.1	1066.4	1357.0	1020.7	422.4
82.5°	16.2	18.4	40.0	63.2	40.9	57.1	397.9	465.9	569.4	299.6	86.7
85°	5.7	6.8	24.7	31.1	20.6	20.4	138.5	141.2	120.6	45.1	23.9
87.5°	0.0	1.1	9.6	7.7	2.6	2.4	16.4	13.8	10.9	6.3	7.9
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: P944858

CATALOG NUMBER: GALN-SB1A-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7	495.7
2.5°	496.1	490.2	480.6	468.8	455.0	447.5	436.8	430.2	424.3	424.6	429.4
5°	496.8	486.9	462.4	436.4	407.5	386.3	362.6	346.0	333.3	330.2	334.8
7.5°	498.7	482.1	442.1	398.7	350.6	314.9	282.3	261.7	250.1	247.1	250.1
10°	501.4	476.9	419.1	352.8	293.0	250.1	223.0	209.9	204.6	200.7	203.1
12.5°	503.6	471.4	390.2	305.3	241.8	208.3	187.8	176.8	172.2	169.4	170.9
15°	507.3	464.2	358.9	261.1	207.2	179.9	160.4	152.3	151.0	151.4	152.1
17.5°	511.0	457.2	323.9	226.5	181.9	154.9	143.1	141.8	143.6	145.3	146.0
20°	515.2	447.1	288.4	200.5	158.4	137.7	134.6	135.5	136.3	139.4	140.3
22.5°	521.3	434.4	257.4	178.4	139.0	129.3	127.8	128.5	129.1	132.2	133.1
25°	530.0	420.8	232.2	158.0	126.7	122.6	121.0	121.0	121.9	124.7	125.8
27.5°	539.2	401.6	211.8	139.2	119.5	115.1	112.5	112.5	113.6	116.9	118.2
30°	549.5	384.1	195.9	125.2	113.4	107.7	104.2	103.3	104.6	108.8	109.9
32.5°	568.1	372.7	184.5	118.6	107.9	100.9	96.1	93.7	95.0	99.8	101.1
35°	596.3	370.1	176.6	115.3	102.6	94.8	88.0	84.3	85.3	90.4	91.9
37.5°	629.4	375.5	168.9	111.0	97.6	88.9	79.9	75.1	76.8	81.4	82.7
40°	676.9	398.3	163.0	107.7	92.6	81.8	71.8	67.0	69.8	73.8	74.4
42.5°	734.2	438.8	161.5	104.6	86.4	74.4	64.3	60.8	63.0	66.7	67.4
45°	805.3	490.4	168.5	100.7	79.7	67.2	58.4	56.5	57.1	60.8	62.6
47.5°	881.7	543.4	187.8	97.2	73.8	61.3	53.8	52.1	51.6	55.1	57.3
50°	959.0	590.4	210.5	94.5	69.6	56.5	50.3	48.1	47.1	49.2	50.1
52.5°	1035.3	627.9	225.4	90.2	65.4	51.6	47.3	44.0	42.0	43.1	44.0
55°	1112.8	660.7	226.3	83.6	61.5	48.6	44.2	40.5	38.1	38.1	38.5
57.5°	1185.3	689.6	213.4	74.8	56.0	45.7	40.0	37.0	34.4	33.5	33.7
60°	1249.4	711.0	191.9	65.0	51.2	42.0	35.9	33.5	30.2	28.4	28.0
62.5°	1306.5	721.5	162.6	54.9	45.3	37.6	32.0	29.3	24.9	22.8	22.5
65°	1354.9	710.8	132.0	45.5	40.3	32.8	27.4	24.7	19.9	17.3	17.3
67.5°	1402.8	661.8	99.8	38.3	35.0	27.6	22.5	20.1	16.6	14.4	14.4
70°	1408.9	558.7	69.8	32.2	29.1	21.2	18.2	16.6	13.6	11.6	11.4
72.5°	1254.2	402.0	42.5	26.3	22.8	15.1	14.4	13.1	10.1	8.8	8.5
75°	1002.5	246.4	24.9	19.7	15.1	10.7	10.7	9.4	6.8	5.7	5.7
77.5°	692.9	128.9	14.7	12.7	9.0	6.3	7.0	5.7	3.3	2.6	2.6
80°	277.5	49.0	7.9	5.9	4.2	2.8	2.4	1.3	0.7	0.4	0.7
82.5°	55.4	12.9	2.6	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0
85°	14.2	2.8	0.7	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	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)