

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: INVUE

Report Number: P671574

Luminaire Tested: **CCP-SA-2B-827-U-SL4**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671574
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-827-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

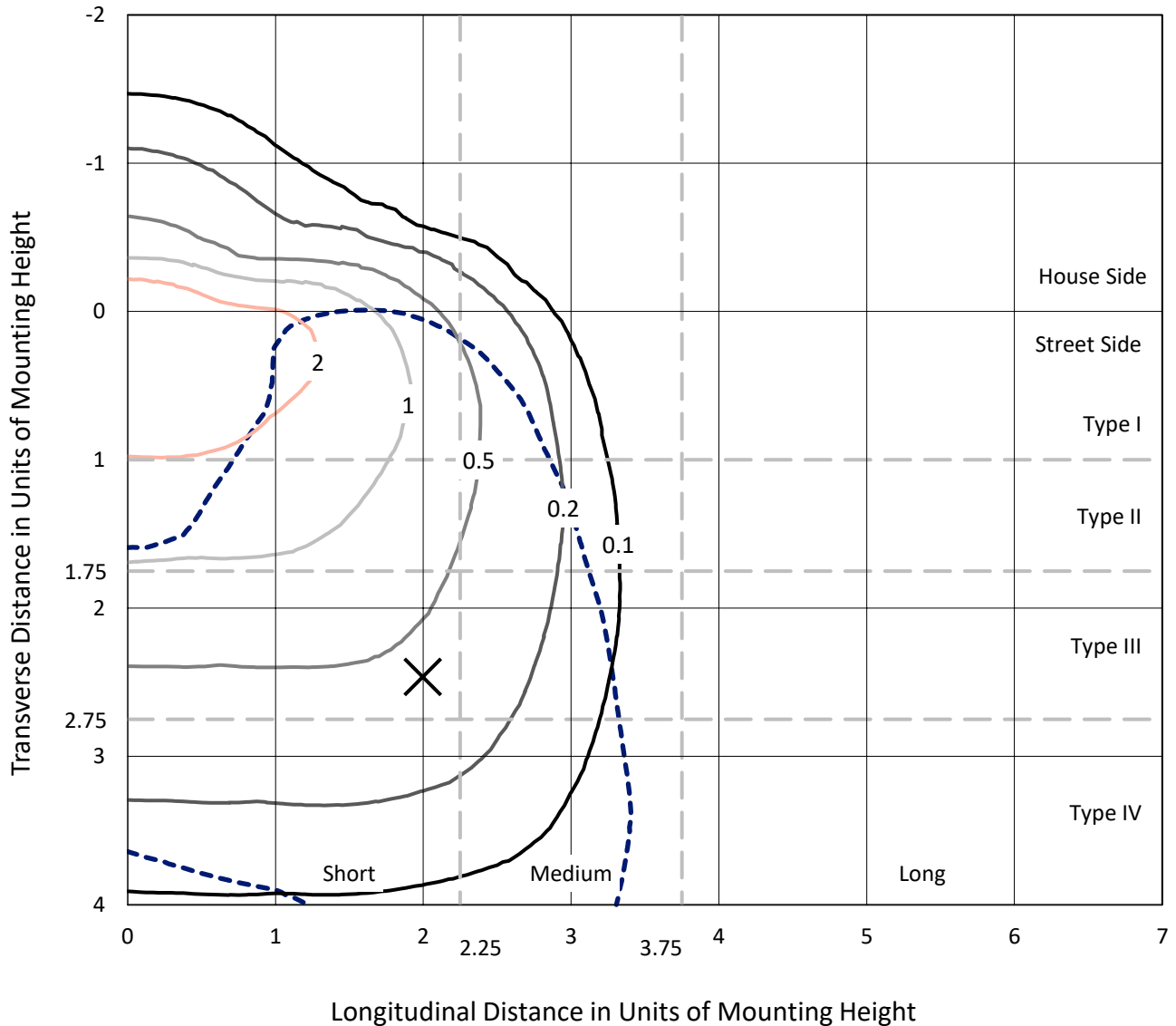
Lumens per Lamp: N/A
Luminaire Lumens: 4974.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT

REPORT NUMBER: P671574
 CATALOG NUMBER: CCP-SA-2B-827-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

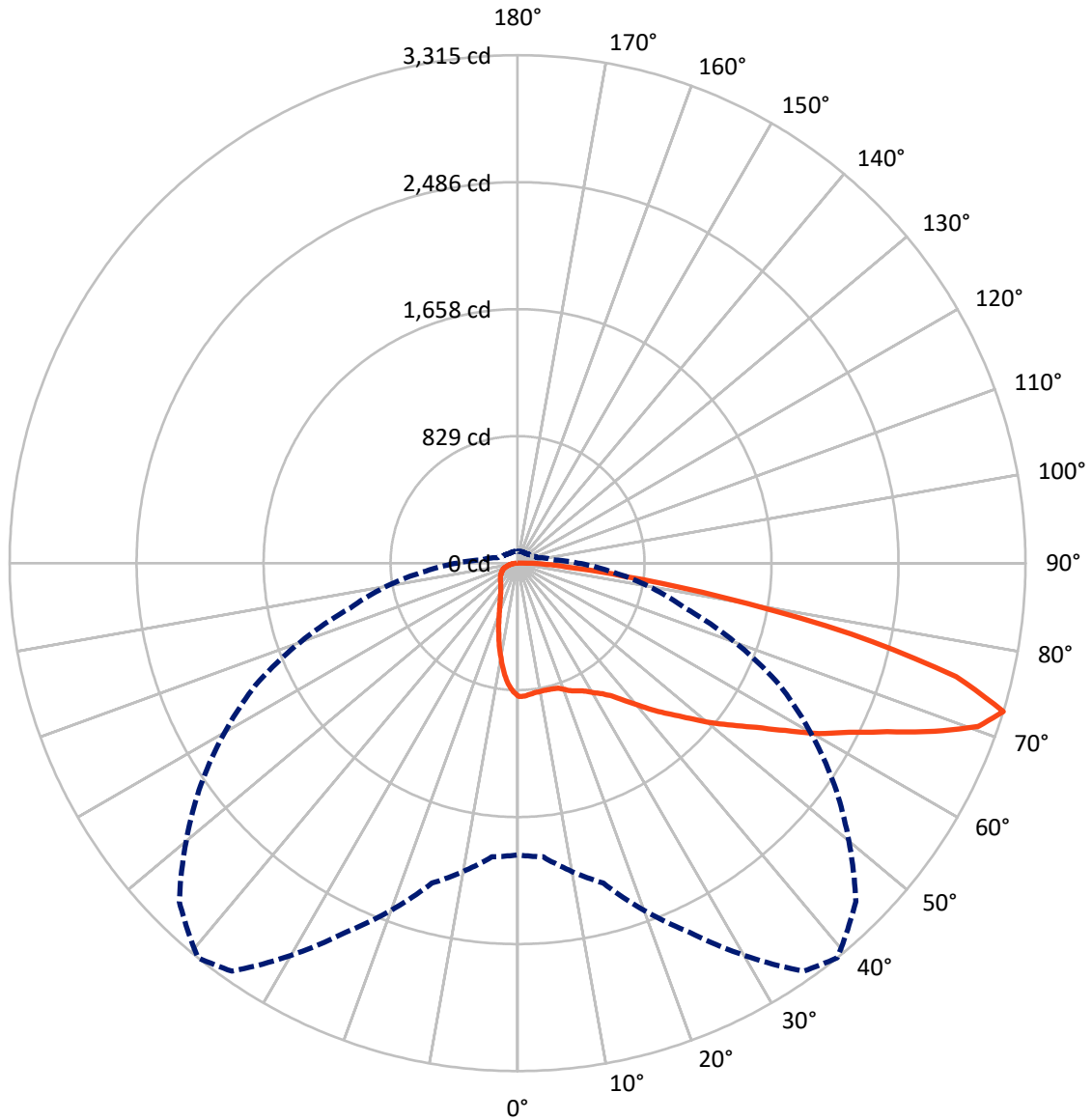
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P671574
CATALOG NUMBER: CCP-SA-2B-827-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P671574

CATALOG NUMBER: CCP-SA-2B-827-U-SL4

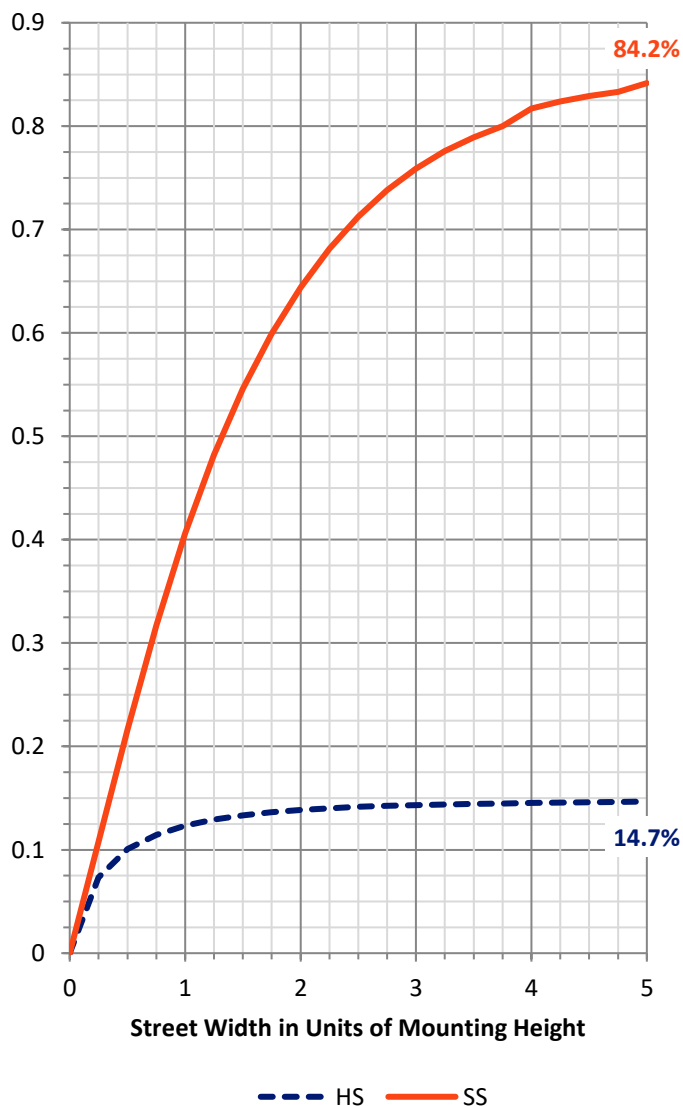
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	739.4	0.0	739.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4235.5	0.0	4235.5
	% Fixture	85.1	0.0	85.1
Total	Lumens	4974.8	0.0	4974.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	1.5
10°-20°	196.4	3.9
20°-30°	299.2	6.0
30°-40°	437.7	8.8
40°-50°	670.1	13.5
50°-60°	982.8	19.8
60°-70°	1253.4	25.2
70°-80°	905.6	18.2
80°-90°	152.8	3.1
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°	4974.8	100.0
0°-180°	4974.8	100.0



REPORT NUMBER: P671574

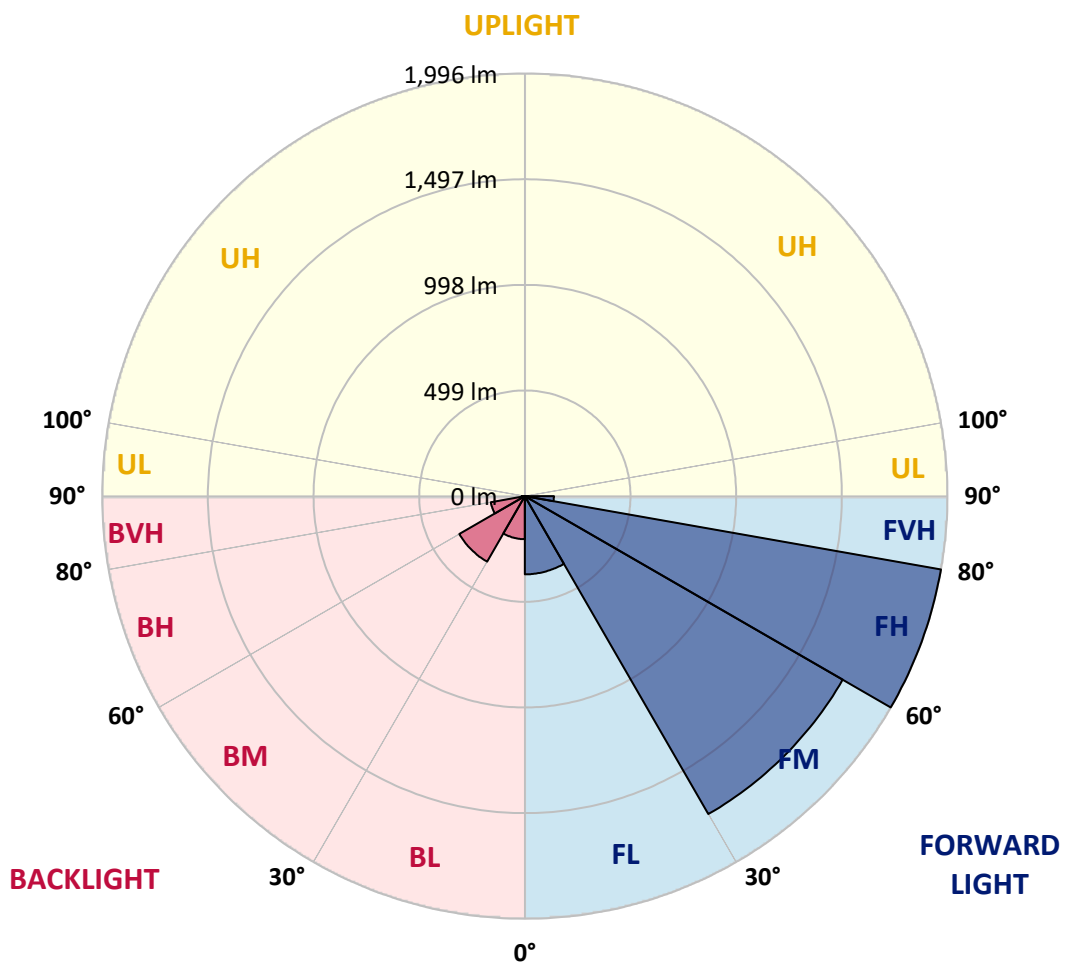
CATALOG NUMBER: CCP-SA-2B-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.2	7.4			
FM (30°-60°)	1733.3	34.8			
FH (60°-80°)	1995.6	40.1			G2/5000
FVH (80°-90°)	137.3	2.8			G2/225
BL (0°-30°)	203.3	4.1	B1/500		
BM (30°-60°)	357.2	7.2	B1/1000		
BH (60°-80°)	163.4	3.3	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			G1/100
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: P671574

CATALOG NUMBER: CCP-SA-2B-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8
2.5°	883.9	885.8	882.0	878.3	876.4	868.9	876.4	872.7	868.9	868.9	868.9
5°	872.7	874.5	874.5	870.8	872.7	859.6	857.7	859.6	854.0	850.3	848.4
7.5°	855.9	859.6	867.1	865.2	857.7	852.1	854.0	852.1	842.8	837.2	822.2
10°	842.8	846.5	850.3	854.0	852.1	850.3	848.4	840.9	839.0	826.0	811.0
12.5°	829.7	829.7	831.6	846.5	848.4	848.4	837.2	837.2	831.6	829.7	807.3
15°	816.6	822.2	837.2	840.9	848.4	852.1	846.5	846.5	837.2	824.1	807.3
17.5°	820.4	829.7	844.7	854.0	857.7	857.7	865.2	859.6	846.5	839.0	822.2
20°	839.0	840.9	859.6	876.4	880.2	880.2	872.7	867.1	857.7	844.7	822.2
22.5°	850.3	863.3	885.8	895.1	906.3	906.3	897.0	883.9	870.8	857.7	833.4
25°	898.8	900.7	910.1	925.0	930.6	923.1	913.8	898.8	882.0	868.9	846.5
27.5°	932.5	941.8	953.0	960.5	951.2	945.6	938.1	921.3	908.2	897.0	865.2
30°	994.1	982.9	990.4	994.1	977.3	981.1	960.5	945.6	930.6	930.6	895.1
32.5°	1031.5	1040.9	1033.4	1031.5	1018.4	1016.6	1003.5	986.7	977.3	988.5	940.0
35°	1096.9	1091.3	1091.3	1089.4	1074.5	1065.2	1065.2	1035.3	1044.6	1068.9	1009.1
37.5°	1130.6	1128.7	1139.9	1149.2	1134.3	1139.9	1134.3	1121.2	1125.0	1167.9	1095.1
40°	1164.2	1177.3	1199.7	1203.4	1212.8	1220.3	1216.5	1214.7	1229.6	1298.7	1210.9
42.5°	1196.0	1207.2	1240.8	1270.7	1293.1	1317.4	1319.3	1319.3	1367.9	1466.9	1351.1
45°	1237.1	1246.4	1293.1	1352.9	1390.3	1407.1	1422.1	1438.9	1504.3	1622.0	1500.6
47.5°	1293.1	1300.6	1356.7	1431.4	1504.3	1513.6	1543.5	1562.2	1661.3	1780.9	1653.8
50°	1373.5	1367.9	1412.7	1521.1	1592.1	1637.0	1680.0	1713.6	1810.8	1941.6	1773.4
52.5°	1438.9	1438.9	1472.5	1616.4	1713.6	1756.6	1801.4	1848.1	1960.3	2102.3	1870.6
55°	1551.0	1539.8	1560.4	1709.9	1850.0	1891.1	1977.1	2016.3	2124.7	2221.9	1952.8
57.5°	1627.6	1633.2	1657.5	1833.2	2010.7	2061.2	2147.1	2175.2	2270.5	2347.1	2012.6
60°	1728.5	1709.9	1762.2	1969.6	2188.2	2259.3	2330.3	2347.1	2418.1	2427.4	2040.6
62.5°	1825.7	1822.0	1866.8	2106.0	2378.9	2429.3	2502.2	2520.9	2550.8	2491.0	2001.4
65°	1885.5	1909.8	1993.9	2255.5	2595.6	2651.7	2724.6	2687.2	2653.5	2434.9	1808.9
67.5°	1967.7	1978.9	2107.9	2418.1	2846.0	2930.1	2993.7	2846.0	2595.6	2205.1	1523.0
70°	1986.4	2016.3	2184.5	2588.1	3103.9	3189.9	3193.6	2791.8	2384.5	1793.9	1104.4
72.5°	1904.2	1924.8	2162.1	2659.2	3251.5	3315.1	3122.6	2524.6	1889.3	1130.6	601.7
75°	1601.5	1659.4	1881.8	2440.5	2980.6	2956.3	2646.1	1926.6	1134.3	500.8	254.1
77.5°	1115.6	1117.5	1349.2	1775.3	2231.2	2225.6	1887.4	1117.5	485.9	201.8	149.5
80°	495.2	530.7	670.9	956.8	1354.8	1354.8	1100.7	555.0	242.9	130.8	102.8
82.5°	291.5	302.7	358.8	446.6	659.6	695.2	527.0	370.0	166.3	82.2	63.5
85°	214.9	233.6	267.2	269.1	312.1	317.7	291.5	321.4	114.0	44.8	52.3
87.5°	160.7	171.9	213.0	177.5	166.3	157.0	179.4	328.9	43.0	22.4	16.8
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: P671574
 CATALOG NUMBER: CCP-SA-2B-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8
2.5°	861.5	861.5	857.7	850.3	850.3	835.3	839.0	842.8	833.4	833.4	835.3
5°	848.4	840.9	831.6	820.4	812.9	792.3	788.6	775.5	773.6	769.9	764.3
7.5°	822.2	811.0	794.2	777.4	753.1	734.4	712.0	693.3	685.8	680.2	678.3
10°	797.9	796.1	768.0	734.4	697.0	661.5	627.9	603.6	588.6	579.3	577.4
12.5°	797.9	783.0	743.7	697.0	642.8	590.5	547.5	513.9	493.3	478.4	472.8
15°	794.2	779.2	726.9	655.9	594.2	523.2	463.4	427.9	398.0	383.1	385.0
17.5°	797.9	775.5	702.6	626.0	540.1	463.4	392.4	349.4	319.5	308.3	306.5
20°	799.8	771.8	683.9	584.9	484.0	398.0	330.8	289.6	267.2	259.7	259.7
22.5°	796.1	760.6	655.9	536.3	435.4	343.8	287.8	252.3	237.3	228.0	231.7
25°	812.9	758.7	629.8	495.2	379.3	299.0	256.0	229.8	220.5	214.9	216.8
27.5°	816.6	758.7	609.2	448.5	330.8	265.4	231.7	214.9	207.4	203.7	201.8
30°	831.6	762.4	584.9	401.8	291.5	239.2	213.0	203.7	198.1	196.2	196.2
32.5°	872.7	773.6	558.7	362.5	257.9	216.8	200.0	192.5	188.7	186.9	188.7
35°	921.3	803.5	530.7	321.4	233.6	201.8	188.7	183.1	181.3	181.3	181.3
37.5°	996.0	848.4	506.4	287.8	213.0	186.9	177.5	175.7	173.8	175.7	175.7
40°	1082.0	897.0	484.0	261.6	198.1	177.5	168.2	168.2	166.3	168.2	170.1
42.5°	1181.0	956.8	461.6	235.5	185.0	170.1	162.6	160.7	158.8	162.6	164.4
45°	1317.4	1039.0	446.6	220.5	175.7	162.6	155.1	155.1	153.2	153.2	157.0
47.5°	1431.4	1117.5	446.6	205.6	170.1	157.0	149.5	149.5	145.8	147.6	147.6
50°	1526.7	1184.8	456.0	201.8	162.6	151.4	145.8	142.0	140.2	140.2	140.2
52.5°	1590.3	1225.9	463.4	198.1	158.8	143.9	140.2	138.3	134.5	132.7	134.5
55°	1653.8	1253.9	465.3	198.1	153.2	136.4	132.7	132.7	128.9	127.1	127.1
57.5°	1678.1	1242.7	439.1	194.3	149.5	130.8	127.1	125.2	123.3	121.5	121.5
60°	1666.9	1201.6	381.2	185.0	145.8	127.1	119.6	119.6	119.6	115.9	117.7
62.5°	1590.3	1061.4	306.5	170.1	140.2	119.6	112.1	115.9	115.9	114.0	114.0
65°	1388.4	876.4	248.5	157.0	132.7	114.0	106.5	112.1	114.0	112.1	110.3
67.5°	1110.0	674.6	205.6	142.0	123.3	104.6	99.0	104.6	106.5	104.6	104.6
70°	762.4	435.4	166.3	127.1	110.3	95.3	89.7	93.4	93.4	95.3	95.3
72.5°	394.3	235.5	136.4	108.4	95.3	86.0	80.4	80.4	78.5	78.5	78.5
75°	196.2	160.7	114.0	91.6	80.4	72.9	69.1	65.4	65.4	65.4	65.4
77.5°	136.4	123.3	93.4	72.9	65.4	59.8	59.8	54.2	54.2	54.2	54.2
80°	102.8	97.2	71.0	56.1	50.5	46.7	46.7	44.8	44.8	43.0	43.0
82.5°	72.9	78.5	54.2	41.1	37.4	35.5	35.5	33.6	33.6	29.9	29.9
85°	57.9	65.4	41.1	29.9	28.0	24.3	24.3	22.4	22.4	20.6	18.7
87.5°	16.8	35.5	16.8	11.2	11.2	11.2	11.2	9.3	9.3	7.5	7.5
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)