

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: P675749

Luminaire Tested: **CCW-SA-2B-830-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675749
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

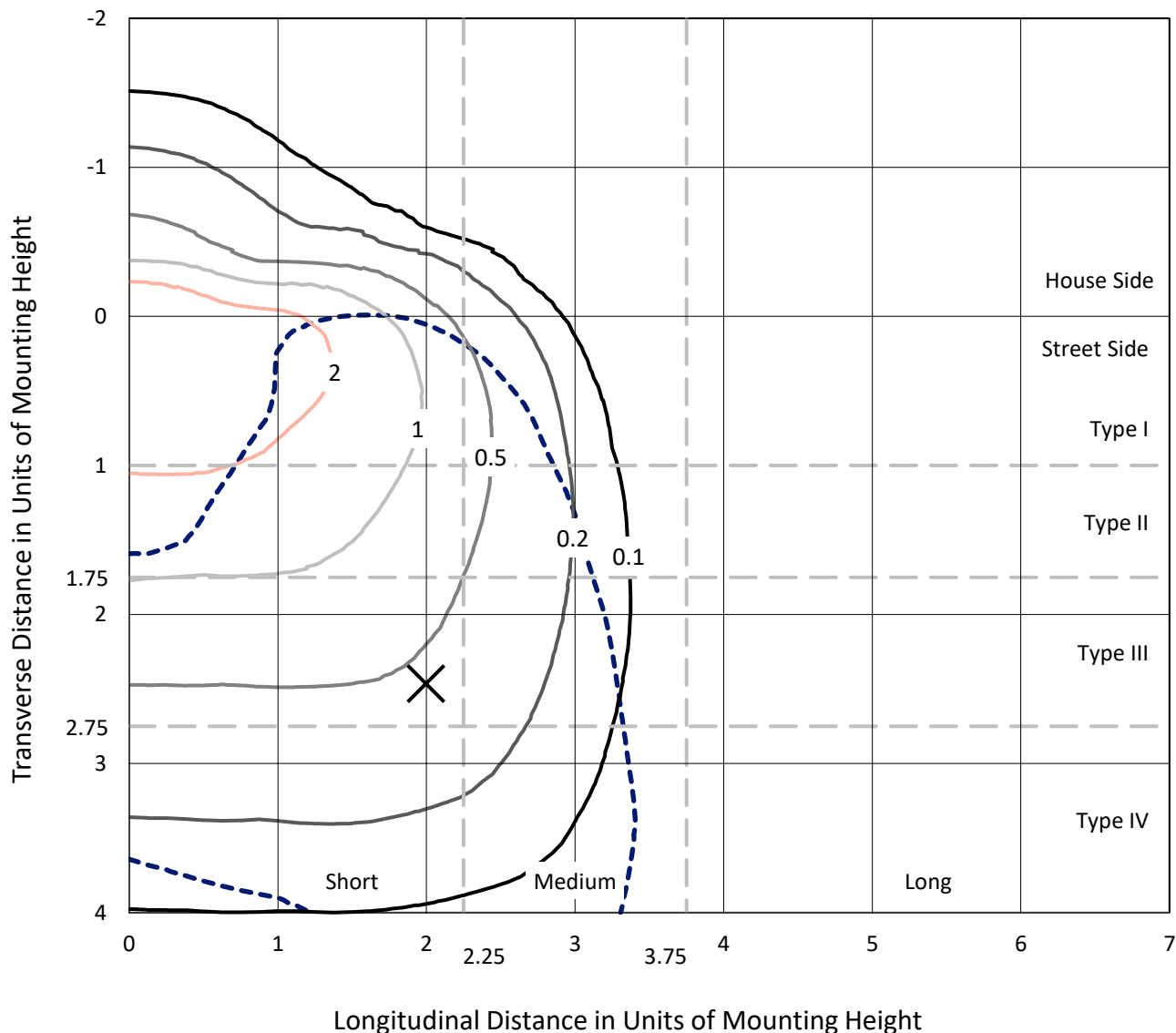
Lumens per Lamp: N/A
Luminaire Lumens: 5377.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
Input Voltage (V): 120
Input Current (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: 25 FT

REPORT NUMBER: P675749
 CATALOG NUMBER: CCW-SA-2B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

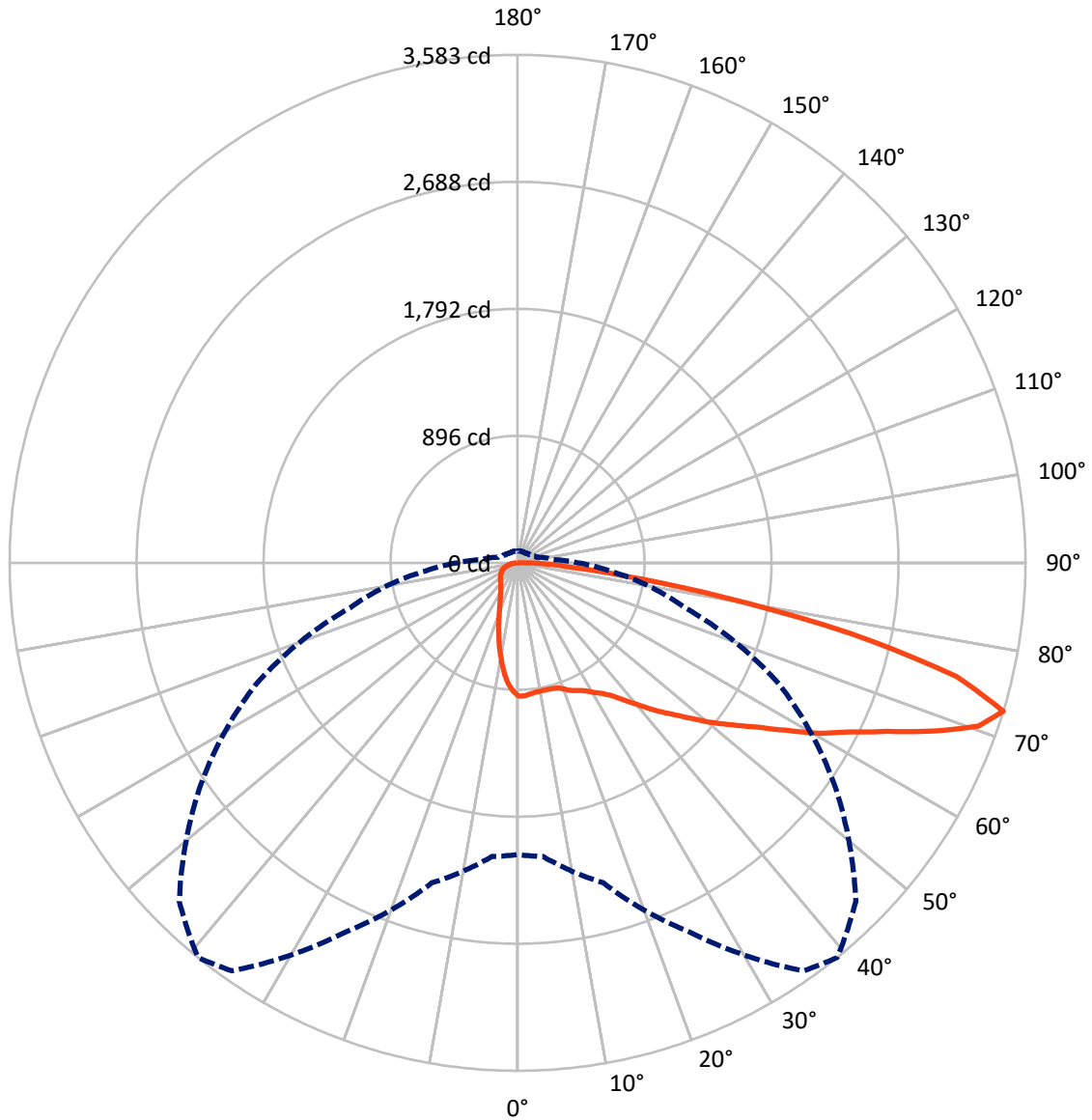
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P675749
CATALOG NUMBER: CCW-SA-2B-830-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P675749
 CATALOG NUMBER: CCW-SA-2B-830-U-SL4

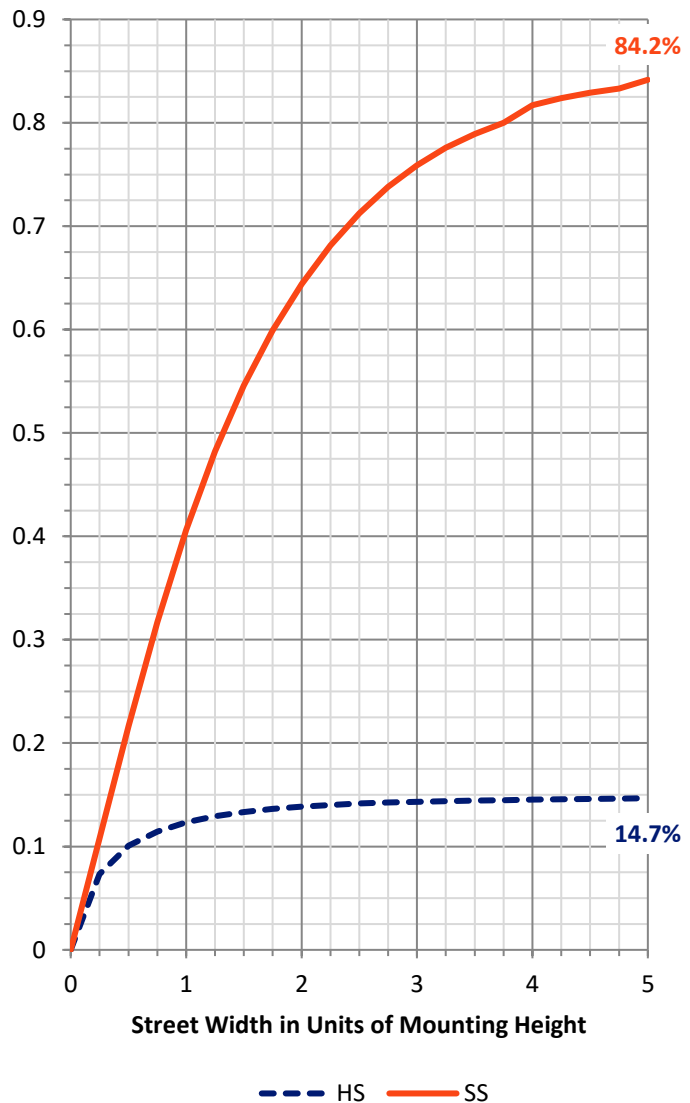
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	799.2	0.0	799.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	4578.3	0.0	4578.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	5377.5	0.0	5377.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.5
10°-20°	212.3	3.9
20°-30°	323.4	6.0
30°-40°	473.1	8.8
40°-50°	724.3	13.5
50°-60°	1062.3	19.8
60°-70°	1354.8	25.2
70°-80°	978.9	18.2
80°-90°	165.1	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°	5377.5	100.0
0°-180°	5377.5	100.0

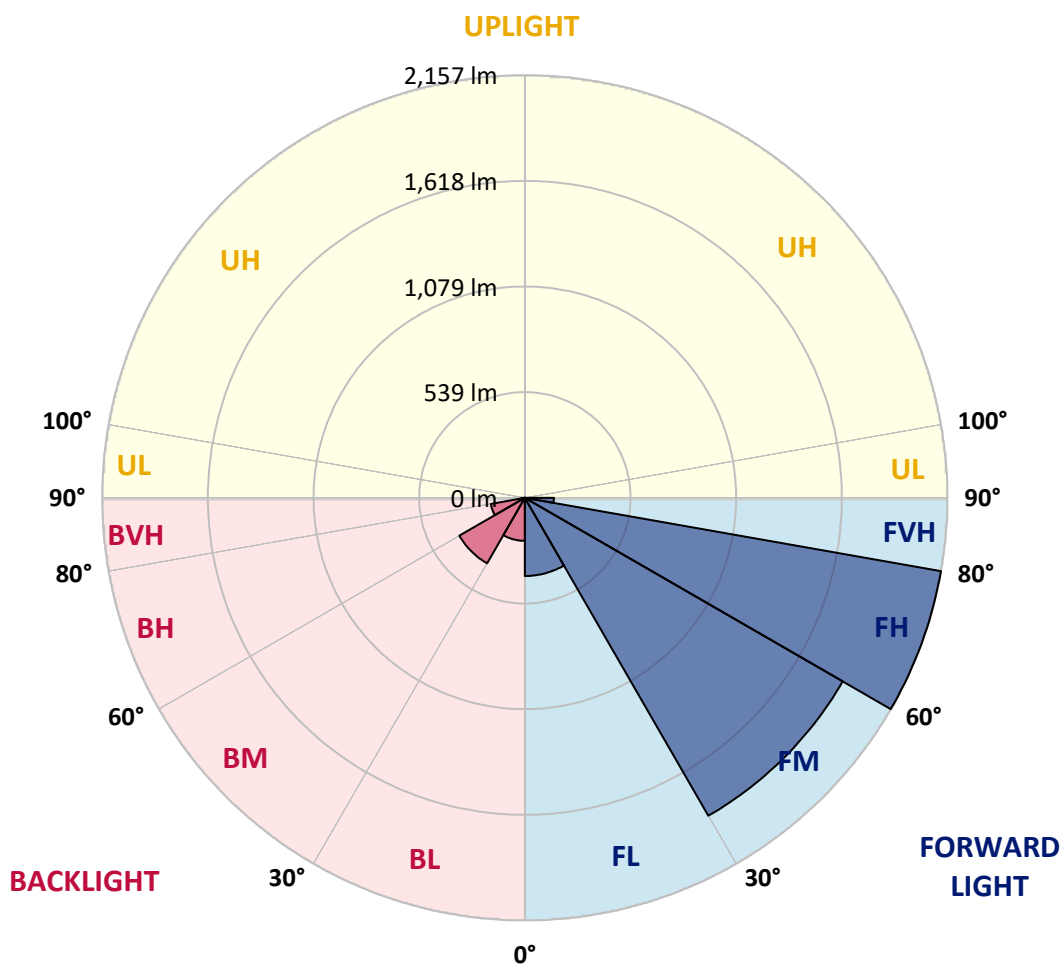


REPORT NUMBER: P675749
 CATALOG NUMBER: CCW-SA-2B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.1	7.4			
FM (30°-60°)	1873.7	34.8			
FH (60°-80°)	2157.1	40.1			G2/5000
FVH (80°-90°)	148.4	2.8			G2/225
BL (0°-30°)	219.8	4.1	B1/500		
BM (30°-60°)	386.1	7.2	B1/1000		
BH (60°-80°)	176.6	3.3	B1/500		G1/500
BVH (80°-90°)	16.7	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: P675749

CATALOG NUMBER: CCW-SA-2B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	955.4	957.5	953.4	949.4	947.4	939.3	947.4	943.3	939.3	939.3	939.3
5°	943.3	945.3	945.3	941.3	943.3	929.2	927.2	929.2	923.1	919.1	917.1
7.5°	925.1	929.2	937.3	935.2	927.2	921.1	923.1	921.1	911.0	904.9	888.8
10°	911.0	915.0	919.1	923.1	921.1	919.1	917.1	909.0	907.0	892.8	876.7
12.5°	896.9	896.9	898.9	915.0	917.1	917.1	904.9	904.9	898.9	896.9	872.6
15°	882.7	888.8	904.9	909.0	917.1	921.1	915.0	915.0	904.9	890.8	872.6
17.5°	886.8	896.9	913.0	923.1	927.2	927.2	935.2	929.2	915.0	907.0	888.8
20°	907.0	909.0	929.2	947.4	951.4	951.4	943.3	937.3	927.2	913.0	888.8
22.5°	919.1	933.2	957.5	967.6	979.7	979.7	969.6	955.4	941.3	927.2	900.9
25°	971.6	973.6	983.7	999.9	1005.9	997.9	987.8	971.6	953.4	939.3	915.0
27.5°	1008.0	1018.1	1030.2	1038.3	1028.2	1022.1	1014.0	995.8	981.7	969.6	935.2
30°	1074.6	1062.5	1070.6	1074.6	1056.4	1060.5	1038.3	1022.1	1005.9	1005.9	967.6
32.5°	1115.0	1125.1	1117.0	1115.0	1100.9	1098.9	1084.7	1066.5	1056.4	1068.6	1016.0
35°	1185.7	1179.7	1179.7	1177.6	1161.5	1151.4	1151.4	1119.1	1129.2	1155.4	1090.8
37.5°	1222.1	1220.1	1232.2	1242.3	1226.1	1232.2	1226.1	1212.0	1216.0	1262.5	1183.7
40°	1258.4	1272.6	1296.8	1300.8	1310.9	1319.0	1315.0	1313.0	1329.1	1403.9	1308.9
42.5°	1292.8	1304.9	1341.2	1373.6	1397.8	1424.1	1426.1	1426.1	1478.6	1585.7	1460.4
45°	1337.2	1347.3	1397.8	1462.4	1502.8	1521.0	1537.2	1555.4	1626.1	1753.3	1622.0
47.5°	1397.8	1405.9	1466.5	1547.3	1626.1	1636.2	1668.5	1688.7	1795.7	1925.0	1787.7
50°	1484.7	1478.6	1527.1	1644.2	1721.0	1769.5	1815.9	1852.3	1957.3	2098.7	1916.9
52.5°	1555.4	1555.4	1591.7	1747.3	1852.3	1898.8	1947.2	1997.7	2118.9	2272.4	2022.0
55°	1676.6	1664.4	1686.7	1848.3	1999.8	2044.2	2137.1	2179.5	2296.7	2401.7	2110.8
57.5°	1759.4	1765.4	1791.7	1981.6	2173.5	2228.0	2320.9	2351.2	2454.2	2537.1	2175.5
60°	1868.5	1848.3	1904.8	2129.0	2365.4	2442.1	2518.9	2537.1	2613.8	2623.9	2205.8
62.5°	1973.5	1969.5	2017.9	2276.5	2571.4	2625.9	2704.7	2724.9	2757.2	2692.6	2163.4
65°	2038.1	2064.4	2155.3	2438.1	2805.7	2866.3	2945.1	2904.7	2868.3	2632.0	1955.3
67.5°	2127.0	2139.1	2278.5	2613.8	3076.4	3167.3	3236.0	3076.4	2805.7	2383.5	1646.3
70°	2147.2	2179.5	2361.3	2797.6	3355.1	3448.1	3452.1	3017.8	2577.5	1939.2	1193.8
72.5°	2058.3	2080.5	2337.1	2874.4	3514.7	3583.4	3375.3	2729.0	2042.2	1222.1	650.4
75°	1731.1	1793.7	2034.1	2638.1	3221.8	3195.6	2860.3	2082.6	1226.1	541.3	274.7
77.5°	1205.9	1207.9	1458.4	1919.0	2411.8	2405.8	2040.2	1207.9	525.2	218.2	161.6
80°	535.3	573.7	725.2	1034.2	1464.5	1464.5	1189.8	599.9	262.6	141.4	111.1
82.5°	315.1	327.2	387.8	482.8	713.0	751.4	569.6	400.0	179.8	88.9	68.7
85°	232.3	252.5	288.9	290.9	337.3	343.4	315.1	347.4	123.2	48.5	56.6
87.5°	173.7	185.8	230.3	191.9	179.8	169.7	193.9	355.5	46.5	24.2	18.2
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: P675749
 CATALOG NUMBER: CCW-SA-2B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	931.2	931.2	927.2	919.1	919.1	902.9	907.0	911.0	900.9	900.9	902.9
5°	917.1	909.0	898.9	886.8	878.7	856.5	852.4	838.3	836.3	832.2	826.2
7.5°	888.8	876.7	858.5	840.3	814.0	793.8	769.6	749.4	741.3	735.3	733.2
10°	862.5	860.5	830.2	793.8	753.4	715.1	678.7	652.4	636.3	626.2	624.2
12.5°	862.5	846.4	803.9	753.4	694.9	638.3	591.8	555.5	533.3	517.1	511.0
15°	858.5	842.3	785.8	709.0	642.3	565.6	500.9	462.6	430.2	414.1	416.1
17.5°	862.5	838.3	759.5	676.7	583.8	500.9	424.2	377.7	345.4	333.3	331.3
20°	864.5	834.2	739.3	632.2	523.2	430.2	357.5	313.1	288.9	280.8	280.8
22.5°	860.5	822.1	709.0	579.7	470.6	371.7	311.1	272.7	256.5	246.4	250.5
25°	878.7	820.1	680.7	535.3	410.1	323.2	276.7	248.5	238.4	232.3	234.3
27.5°	882.7	820.1	658.5	484.8	357.5	286.8	250.5	232.3	224.2	220.2	218.2
30°	898.9	824.1	632.2	434.3	315.1	258.6	230.3	220.2	214.1	212.1	212.1
32.5°	943.3	836.3	604.0	391.9	278.8	234.3	216.1	208.1	204.0	202.0	204.0
35°	995.8	868.6	573.7	347.4	252.5	218.2	204.0	198.0	195.9	195.9	195.9
37.5°	1076.6	917.1	547.4	311.1	230.3	202.0	191.9	189.9	187.9	189.9	189.9
40°	1169.6	969.6	523.2	282.8	214.1	191.9	181.8	181.8	179.8	181.8	183.8
42.5°	1276.6	1034.2	498.9	254.5	200.0	183.8	175.7	173.7	171.7	175.7	177.8
45°	1424.1	1123.1	482.8	238.4	189.9	175.7	167.7	167.7	165.6	165.6	169.7
47.5°	1547.3	1207.9	482.8	222.2	183.8	169.7	161.6	161.6	157.6	159.6	159.6
50°	1650.3	1280.6	492.9	218.2	175.7	163.6	157.6	153.5	151.5	151.5	151.5
52.5°	1719.0	1325.1	500.9	214.1	171.7	155.5	151.5	149.5	145.4	143.4	145.4
55°	1787.7	1355.4	503.0	214.1	165.6	147.5	143.4	143.4	139.4	137.4	137.4
57.5°	1813.9	1343.3	474.7	210.1	161.6	141.4	137.4	135.3	133.3	131.3	131.3
60°	1801.8	1298.8	412.1	200.0	157.6	137.4	129.3	129.3	129.3	125.2	127.3
62.5°	1719.0	1147.3	331.3	183.8	151.5	129.3	121.2	125.2	125.2	123.2	123.2
65°	1500.8	947.4	268.7	169.7	143.4	123.2	115.1	121.2	123.2	121.2	119.2
67.5°	1199.9	729.2	222.2	153.5	133.3	113.1	107.1	113.1	115.1	113.1	113.1
70°	824.1	470.6	179.8	137.4	119.2	103.0	97.0	101.0	101.0	103.0	103.0
72.5°	426.2	254.5	147.5	117.2	103.0	92.9	86.9	86.9	84.8	84.8	84.8
75°	212.1	173.7	123.2	99.0	86.9	78.8	74.7	70.7	70.7	70.7	70.7
77.5°	147.5	133.3	101.0	78.8	70.7	64.6	64.6	58.6	58.6	58.6	58.6
80°	111.1	105.0	76.8	60.6	54.5	50.5	50.5	48.5	48.5	46.5	46.5
82.5°	78.8	84.8	58.6	44.4	40.4	38.4	38.4	36.4	36.4	32.3	32.3
85°	62.6	70.7	44.4	32.3	30.3	26.3	26.3	24.2	24.2	22.2	20.2
87.5°	18.2	38.4	18.2	12.1	12.1	12.1	12.1	10.1	10.1	8.1	8.1
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)