

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: P675590

Luminaire Tested: **CCW-SA-1D-827-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675590
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-827-U-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL3 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

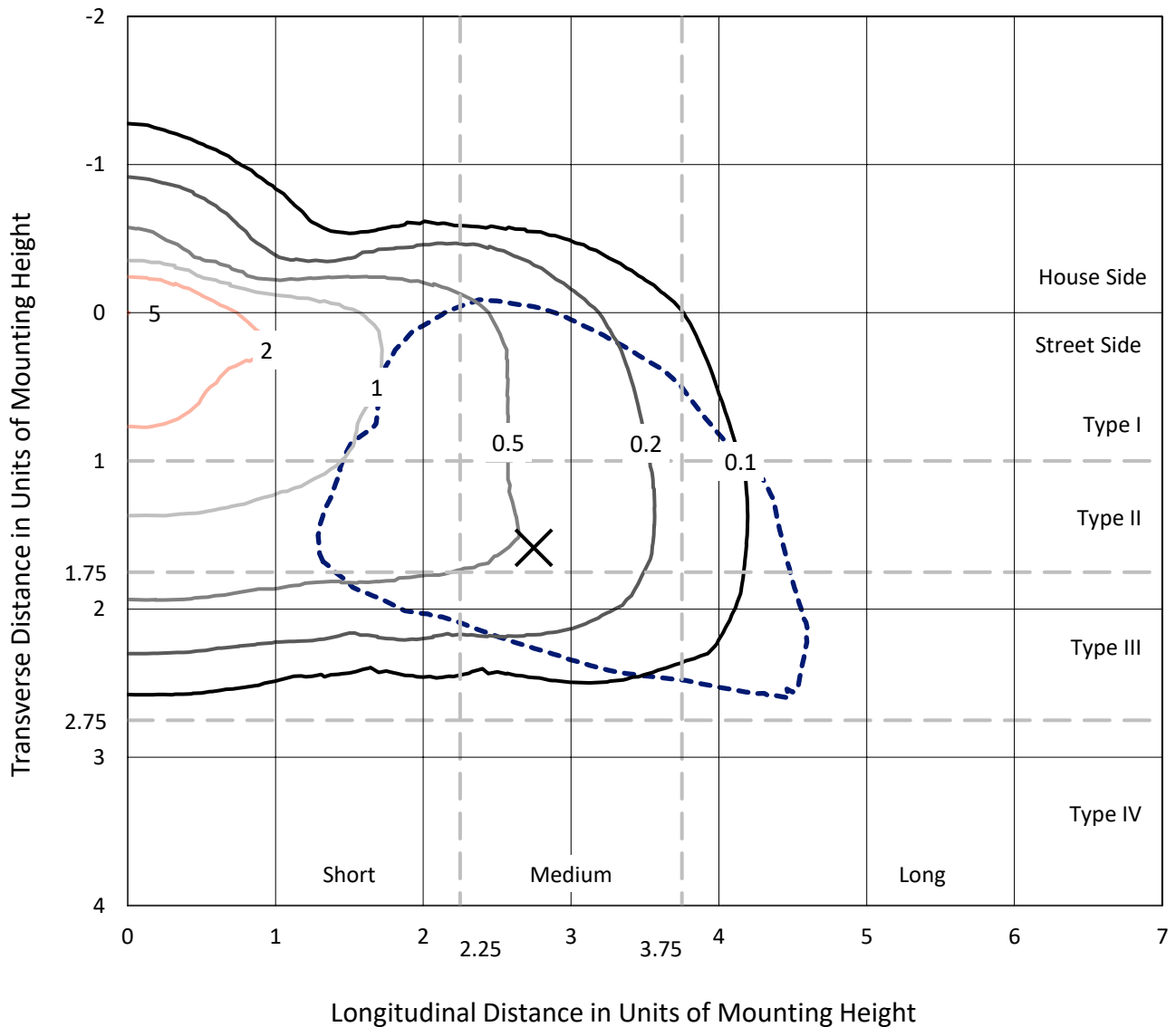
Lumens per Lamp: N/A
Luminaire Lumens: 4053.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

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Iso-Footcandle Lines of Horizontal Illumination

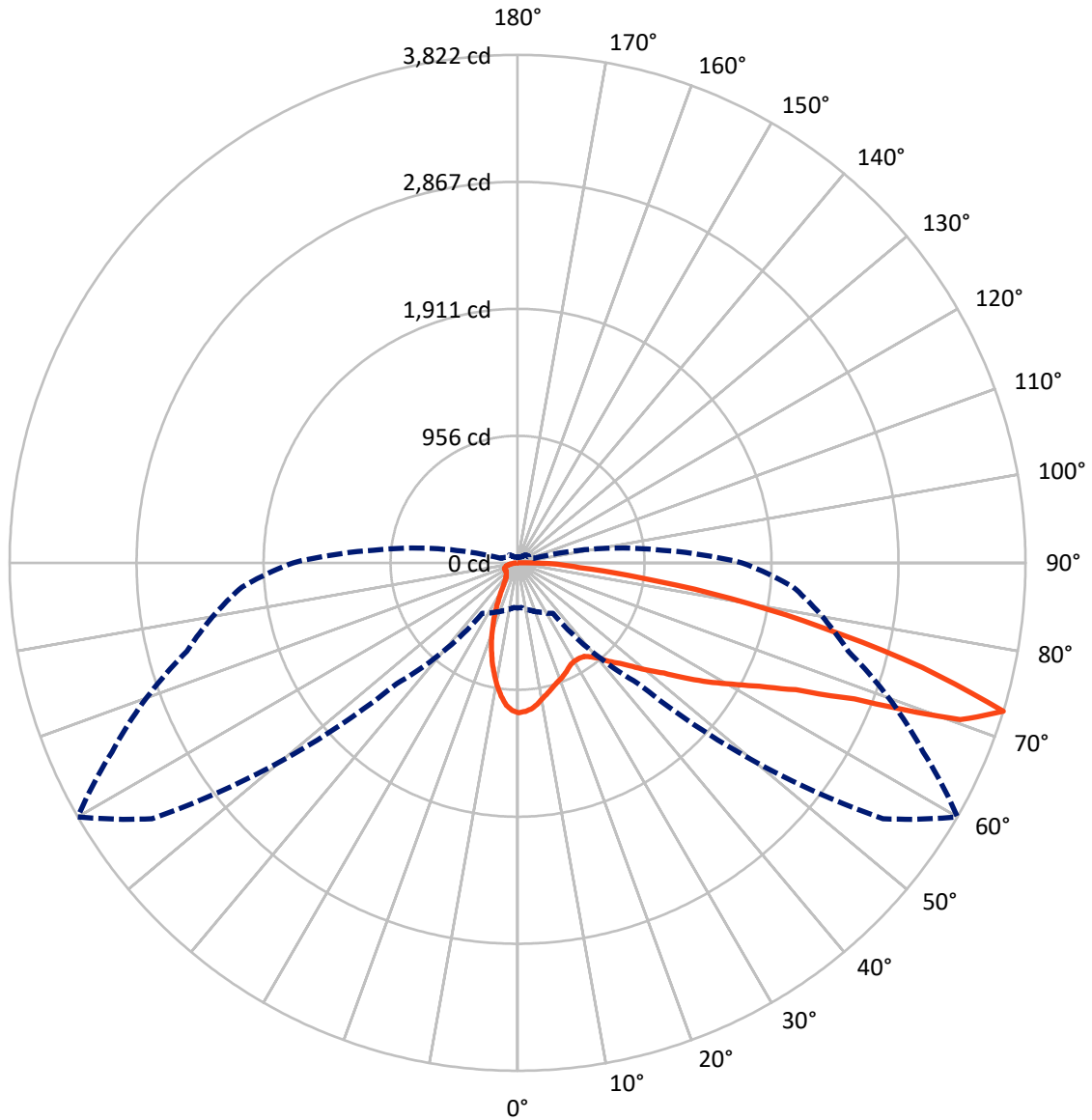
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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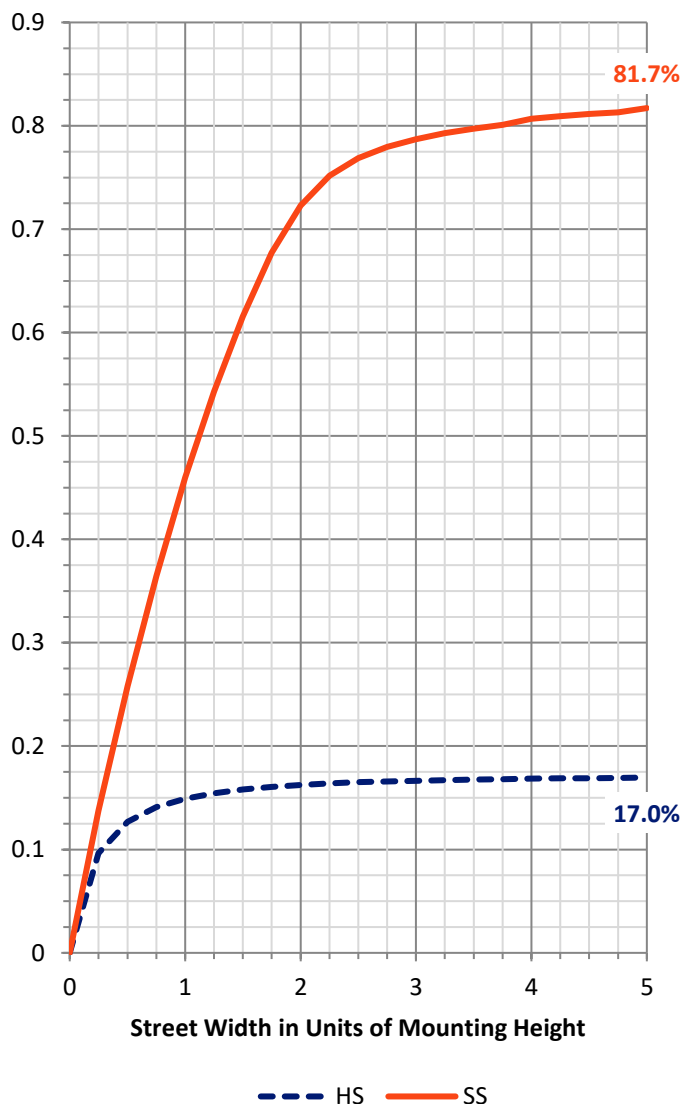
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.3	0.0	696.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	3357.1	0.0	3357.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	4053.4	0.0	4053.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	2.4
10°-20°	221.8	5.5
20°-30°	283.9	7.0
30°-40°	363.2	9.0
40°-50°	498.1	12.3
50°-60°	720.5	17.8
60°-70°	988.4	24.4
70°-80°	741.7	18.3
80°-90°	137.9	3.4
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°	4053.4	100.0
0°-180°	4053.4	100.0

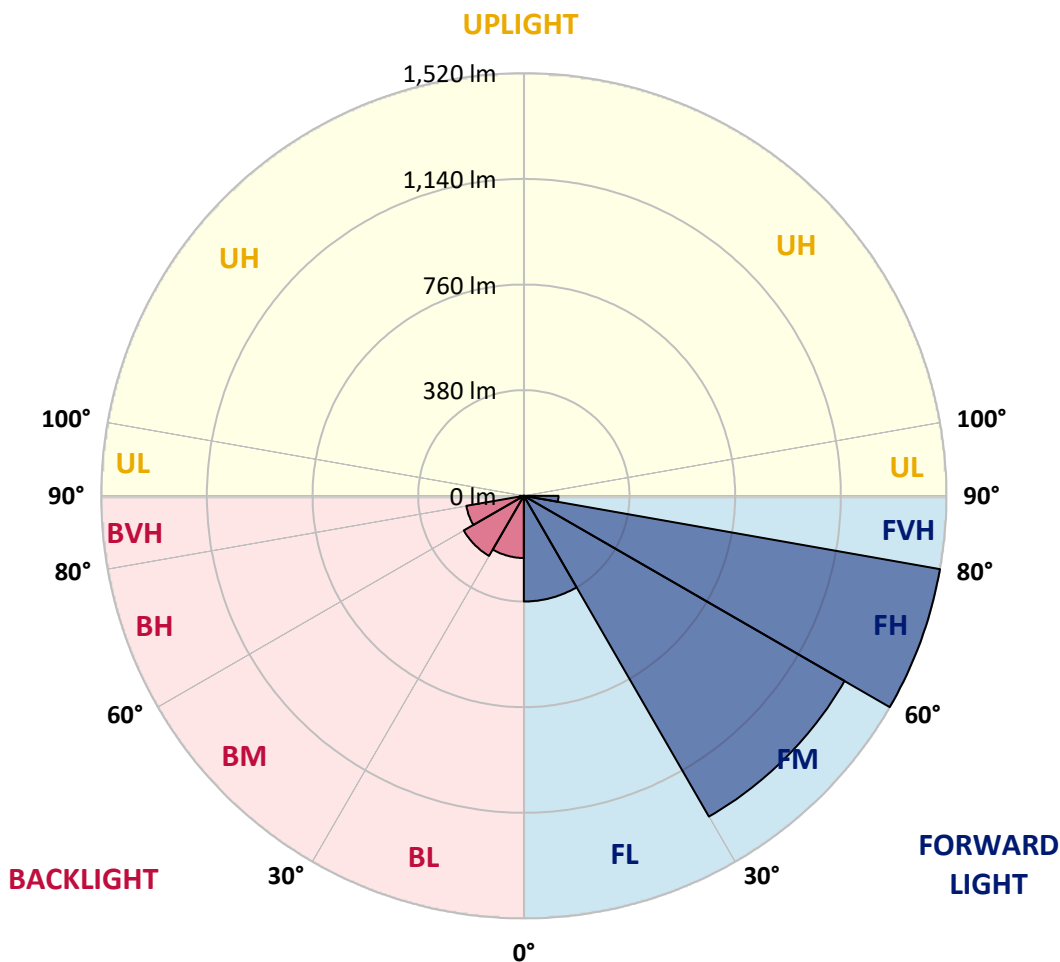


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.1	9.4			
FM (30°-60°)	1332.3	32.9			
FH (60°-80°)	1520.3	37.5			G1/1800
FVH (80°-90°)	124.4	3.1			G2/225
BL (0°-30°)	223.5	5.5	B1/500		
BM (30°-60°)	249.5	6.2	B1/1000		
BH (60°-80°)	209.8	5.2	B1/500		G1/500
BVH (80°-90°)	13.4	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1104.5	1115.1	1118.1	1118.1	1127.2	1116.6	1131.7	1119.6	1122.6	1127.2	1124.1
5°	1051.7	1069.8	1059.3	1078.9	1071.3	1084.9	1103.0	1103.0	1098.5	1107.5	1100.0
7.5°	1000.4	994.4	1012.5	1012.5	1024.6	1042.7	1057.8	1072.8	1074.4	1077.4	1075.9
10°	931.0	938.5	947.6	959.7	974.8	992.9	1024.6	1036.6	1039.6	1057.8	1053.2
12.5°	873.7	884.2	890.3	914.4	928.0	953.6	989.9	1006.5	1008.0	1033.6	1033.6
15°	831.4	837.5	851.0	860.1	890.3	926.5	961.2	976.3	992.9	1020.0	1012.5
17.5°	802.7	810.3	816.3	828.4	857.1	887.2	941.6	950.6	970.2	1009.5	1000.4
20°	786.1	787.7	796.7	804.3	829.9	858.6	906.9	931.0	956.7	991.4	982.3
22.5°	789.2	783.1	781.6	792.2	796.7	823.9	882.7	908.4	944.6	985.3	970.2
25°	795.2	796.7	793.7	784.6	786.1	810.3	849.5	882.7	923.5	983.8	953.6
27.5°	810.3	817.8	805.8	796.7	787.7	796.7	837.5	861.6	906.9	991.4	952.1
30°	825.4	832.9	829.9	816.3	798.2	795.2	823.9	854.1	897.8	997.4	952.1
32.5°	848.0	858.6	848.0	852.5	831.4	817.8	828.4	855.6	906.9	1018.5	953.6
35°	873.7	882.7	885.7	875.2	870.6	845.0	851.0	864.6	915.9	1042.7	968.7
37.5°	902.3	912.9	922.0	923.5	908.4	893.3	890.3	897.8	938.5	1084.9	985.3
40°	922.0	928.0	946.1	961.2	965.7	944.6	943.1	943.1	979.3	1122.6	1015.5
42.5°	955.1	952.1	977.8	1004.9	1012.5	1000.4	1003.4	1015.5	1036.6	1177.0	1063.8
45°	971.7	968.7	998.9	1044.2	1078.9	1072.8	1075.9	1080.4	1100.0	1263.0	1145.3
47.5°	994.4	997.4	1041.2	1092.5	1128.7	1149.8	1166.4	1164.9	1180.0	1350.5	1235.8
50°	1017.0	1023.0	1075.9	1130.2	1193.6	1229.8	1253.9	1270.5	1285.6	1442.5	1339.9
52.5°	1060.8	1066.8	1125.7	1184.5	1266.0	1318.8	1379.2	1377.6	1379.2	1534.6	1444.0
55°	1124.1	1125.7	1160.4	1228.3	1338.4	1435.0	1518.0	1527.0	1501.4	1649.3	1563.2
57.5°	1196.6	1202.6	1232.8	1284.1	1395.8	1546.6	1673.4	1691.5	1622.1	1742.8	1671.9
60°	1264.5	1269.0	1315.8	1374.6	1495.3	1687.0	1830.3	1851.4	1776.0	1857.5	1785.1
62.5°	1187.5	1210.2	1293.1	1427.4	1670.4	1899.7	2029.5	2043.1	1925.4	1973.7	1905.8
65°	950.6	965.7	1084.9	1302.2	1682.4	2286.0	2337.3	2301.1	2130.6	2123.1	2088.3
67.5°	529.6	541.7	623.2	851.0	1416.9	2430.9	2999.7	2734.2	2449.0	2347.9	2335.8
70°	418.0	421.0	431.6	478.3	786.1	2142.7	3521.8	3533.9	2969.6	2657.2	2388.6
72.5°	339.5	338.0	369.7	410.4	464.7	1285.6	3357.4	3822.1	3367.9	2575.7	2080.8
75°	259.5	264.1	304.8	363.7	425.5	605.1	2504.8	3144.6	3155.2	2400.7	1754.9
77.5°	197.7	199.2	244.4	321.4	416.5	427.0	1634.2	2343.4	2353.9	1859.0	967.2
80°	147.9	147.9	185.6	271.6	405.9	393.8	1006.5	1625.1	1471.2	653.4	211.2
82.5°	84.5	90.5	123.7	206.7	368.2	378.7	567.4	931.0	621.7	178.1	98.1
85°	45.3	46.8	75.4	138.8	303.3	362.1	433.1	463.2	247.5	95.1	45.3
87.5°	16.6	16.6	34.7	70.9	191.6	268.6	344.0	295.7	141.8	43.8	22.6
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°	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7	1128.7
2.5°	1127.2	1121.1	1116.6	1121.1	1104.5	1097.0	1106.0	1101.5	1092.5	1087.9	1084.9
5°	1104.5	1097.0	1089.4	1084.9	1066.8	1048.7	1039.6	1021.5	1006.5	1011.0	1001.9
7.5°	1080.4	1072.8	1050.2	1029.1	992.9	956.7	940.1	914.4	905.4	897.8	893.3
10°	1050.2	1036.6	1001.9	959.7	906.9	866.1	823.9	793.7	762.0	748.4	753.0
12.5°	1012.5	1004.9	950.6	885.7	811.8	743.9	694.1	645.8	603.6	580.9	574.9
15°	995.9	973.3	894.8	808.8	715.2	630.7	556.8	472.3	422.5	398.4	398.4
17.5°	977.8	935.5	842.0	724.3	617.1	508.5	404.4	327.4	288.2	274.6	274.6
20°	949.1	902.3	780.1	644.3	514.5	383.3	289.7	247.5	235.4	226.3	227.8
22.5°	928.0	870.6	722.8	565.8	407.4	285.2	227.8	214.3	209.7	206.7	208.2
25°	903.8	832.9	662.4	481.3	319.9	224.8	197.7	191.6	194.7	196.2	196.2
27.5°	884.2	801.2	600.6	390.8	241.4	190.1	178.1	176.5	182.6	185.6	187.1
30°	870.6	772.6	540.2	307.8	193.1	169.0	163.0	163.0	170.5	173.5	175.0
32.5°	857.1	748.4	475.3	235.4	164.5	150.9	149.4	150.9	155.4	155.4	156.9
35°	861.6	725.8	413.4	190.1	147.9	138.8	138.8	138.8	140.3	141.8	141.8
37.5°	870.6	719.8	347.1	159.9	135.8	129.8	129.8	128.3	129.8	128.3	129.8
40°	879.7	710.7	286.7	141.8	128.3	123.7	122.2	119.2	117.7	117.7	119.2
42.5°	917.4	722.8	235.4	129.8	122.2	119.2	114.7	111.7	110.2	110.2	110.2
45°	965.7	745.4	194.7	123.7	117.7	110.2	107.1	105.6	102.6	104.1	105.6
47.5°	1038.1	780.1	170.5	119.2	113.2	104.1	101.1	98.1	98.1	101.1	101.1
50°	1133.2	837.5	155.4	114.7	108.6	99.6	95.1	93.6	93.6	98.1	98.1
52.5°	1235.8	903.8	149.4	113.2	104.1	95.1	90.5	89.0	89.0	95.1	95.1
55°	1338.4	985.3	153.9	113.2	101.1	90.5	86.0	83.0	84.5	89.0	89.0
57.5°	1451.6	1072.8	176.5	113.2	98.1	89.0	83.0	78.5	80.0	81.5	81.5
60°	1575.3	1187.5	215.8	113.2	96.6	86.0	78.5	72.4	72.4	73.9	73.9
62.5°	1700.6	1300.7	271.6	114.7	98.1	84.5	72.4	66.4	64.9	66.4	66.4
65°	1865.0	1481.8	327.4	114.7	102.6	81.5	67.9	60.4	58.8	58.8	60.4
67.5°	2095.9	1611.5	253.5	110.2	105.6	81.5	63.4	55.8	52.8	52.8	52.8
70°	1973.7	1359.5	161.5	102.6	101.1	84.5	60.4	51.3	48.3	46.8	46.8
72.5°	1690.0	1087.9	129.8	96.6	93.6	83.0	57.3	48.3	43.8	42.2	42.2
75°	1355.0	858.6	113.2	87.5	81.5	69.4	52.8	43.8	40.7	37.7	37.7
77.5°	663.9	359.1	86.0	77.0	69.4	52.8	46.8	40.7	36.2	33.2	33.2
80°	166.0	125.2	63.4	60.4	51.3	40.7	37.7	34.7	31.7	28.7	28.7
82.5°	89.0	73.9	45.3	40.7	34.7	28.7	28.7	27.2	25.7	22.6	21.1
85°	45.3	43.8	30.2	27.2	22.6	18.1	19.6	19.6	18.1	13.6	13.6
87.5°	24.1	24.1	15.1	12.1	10.6	9.1	9.1	9.1	7.5	6.0	6.0
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)