

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: P674450

Luminaire Tested: **CCP-SA-1D-827-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674450
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-827-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

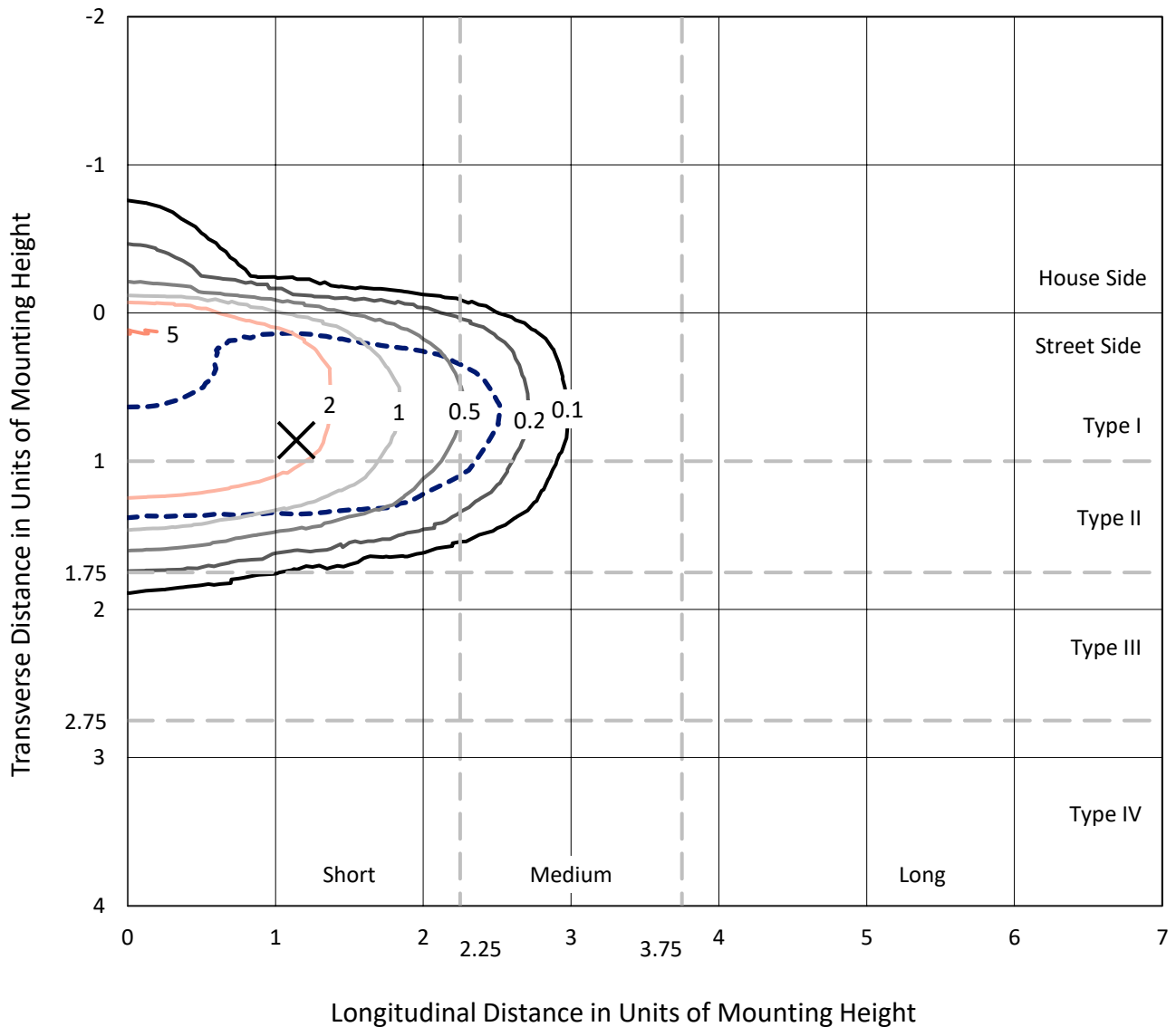
Lumens per Lamp: N/A
Luminaire Lumens: 3399.6 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

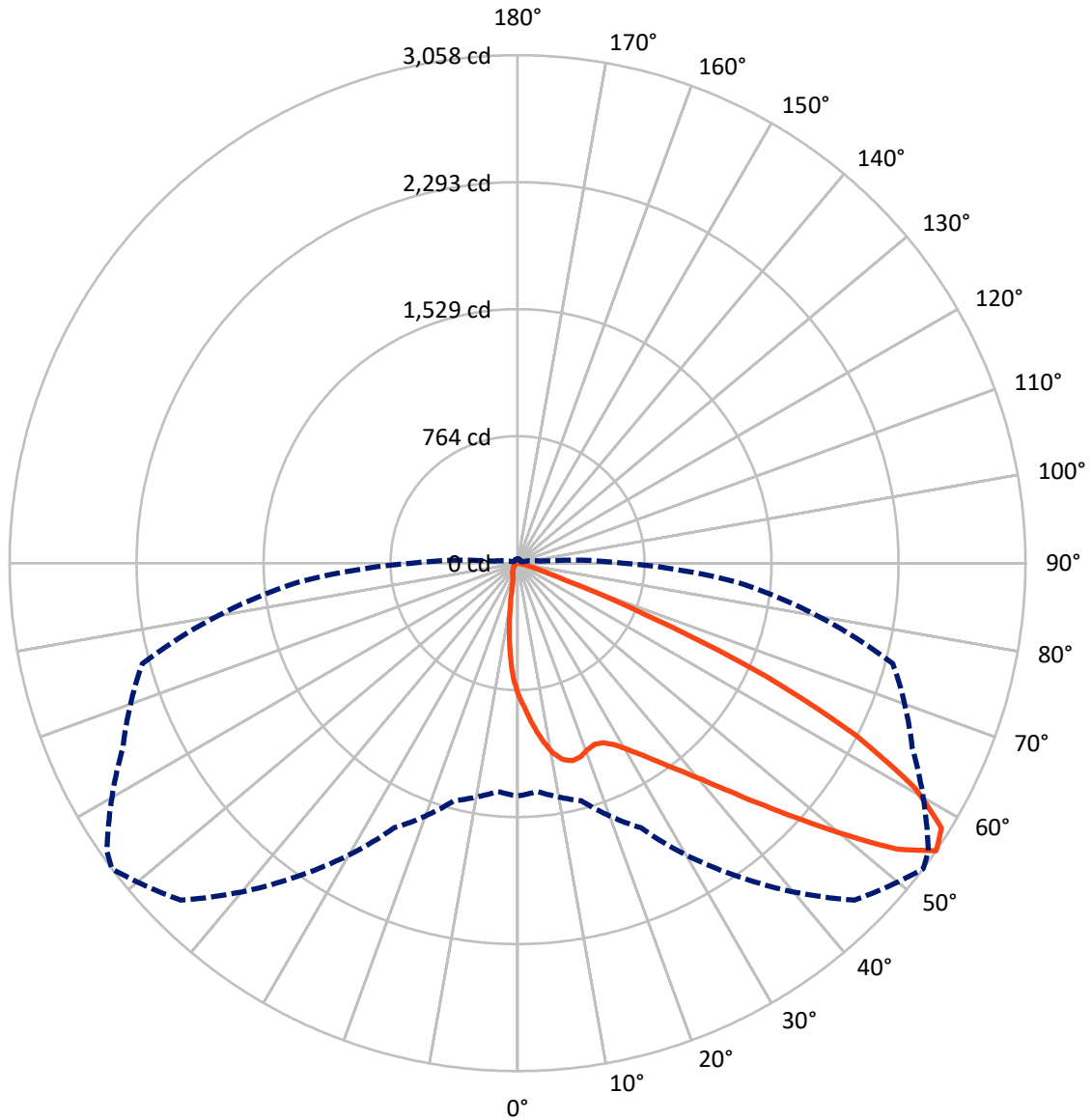
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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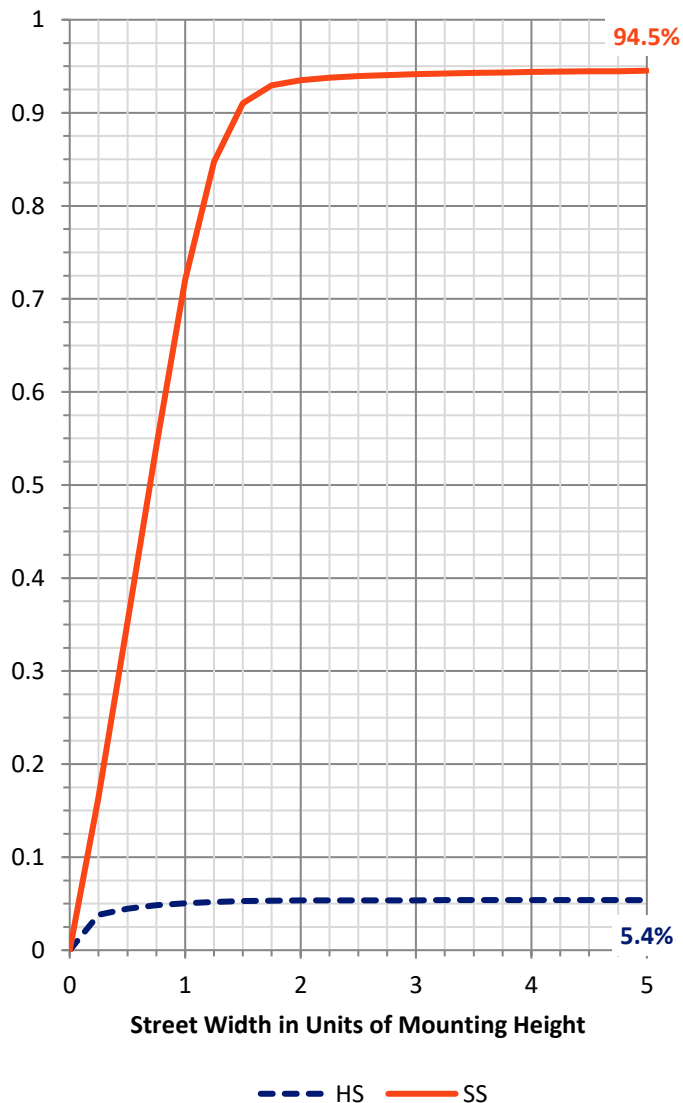
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	183.8	0.0	183.8
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3215.8	0.0	3215.8
	% Fixture	94.6	0.0	94.6
Total	Lumens	3399.6	0.0	3399.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	2.1
10°-20°	185.9	5.5
20°-30°	311.1	9.2
30°-40°	508.9	15.0
40°-50°	818.1	24.1
50°-60°	923.6	27.2
60°-70°	492.7	14.5
70°-80°	81.0	2.4
80°-90°	7.2	0.2
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°	3399.6	100.0
0°-180°	3399.6	100.0

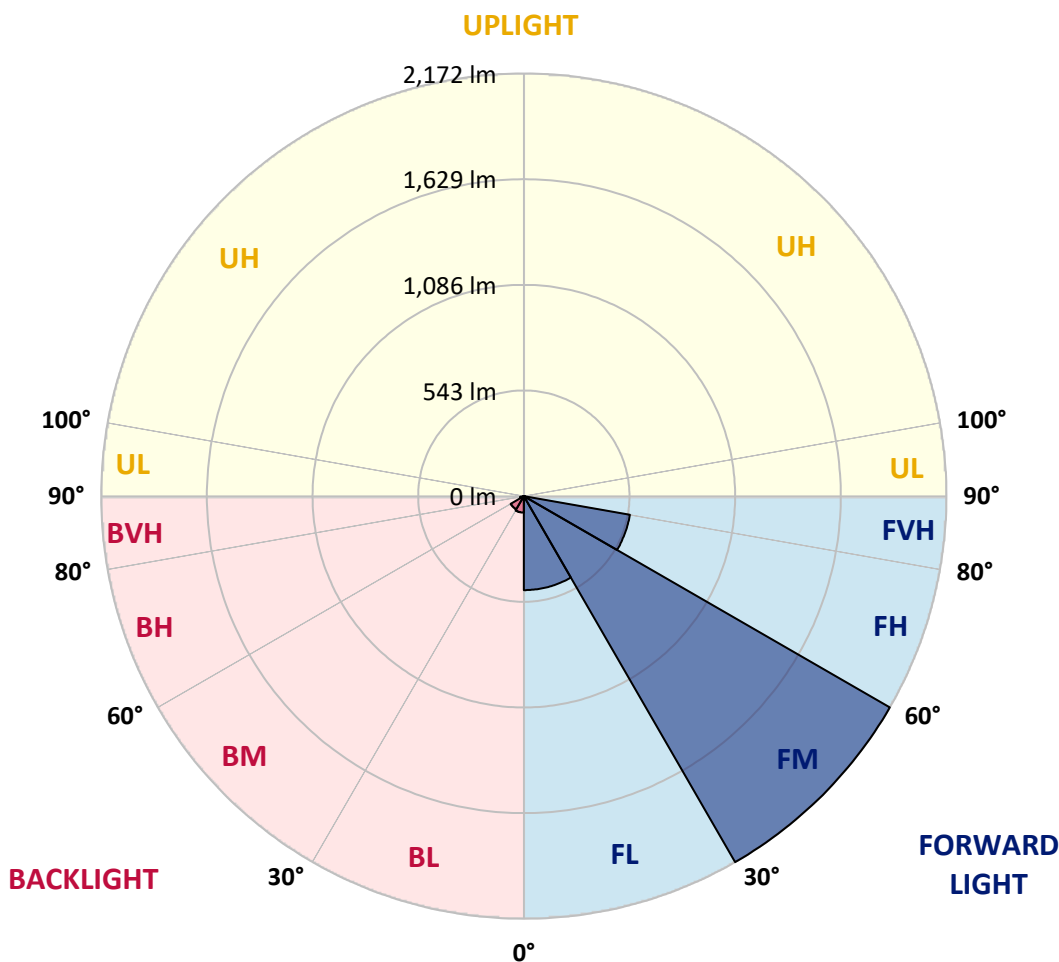


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.3	14.2			
FM (30°-60°)	2172.4	63.9			
FH (60°-80°)	553.5	16.3			G0/660
FVH (80°-90°)	6.7	0.2			G0/10
BL (0°-30°)	84.8	2.5	B0/110		
BM (30°-60°)	78.3	2.3	B0/220		
BH (60°-80°)	20.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6
2.5°	954.0	948.4	951.7	943.0	927.2	907.6	878.1	879.6	856.3	836.1	808.1
5°	1111.6	1105.7	1103.9	1081.8	1059.8	1024.3	980.6	973.4	930.8	879.3	820.6
7.5°	1194.7	1189.7	1193.5	1185.5	1163.7	1131.6	1076.2	1070.8	1005.0	926.9	840.6
10°	1156.6	1154.8	1171.2	1190.3	1207.8	1204.0	1159.6	1151.2	1077.4	979.4	861.1
12.5°	1054.1	1059.8	1080.6	1115.8	1170.0	1220.9	1213.8	1215.3	1151.2	1036.3	883.8
15°	994.0	1000.8	1012.7	1030.9	1097.6	1188.2	1234.3	1249.2	1222.1	1099.7	910.6
17.5°	988.9	994.6	996.3	1003.2	1042.2	1135.4	1226.0	1254.3	1285.3	1159.6	940.6
20°	1027.9	1030.3	1028.8	1023.7	1037.7	1106.9	1199.8	1240.3	1337.4	1223.3	967.2
22.5°	1101.5	1097.9	1093.4	1074.7	1073.8	1114.9	1185.5	1227.8	1368.4	1276.0	984.7
25°	1192.6	1185.2	1178.9	1152.4	1139.9	1156.9	1198.3	1232.3	1396.4	1327.3	997.2
27.5°	1292.1	1294.5	1279.0	1243.3	1223.6	1220.0	1237.9	1263.2	1423.5	1373.1	1004.1
30°	1398.5	1399.6	1379.4	1342.5	1324.6	1301.7	1300.5	1315.7	1452.7	1425.9	1010.6
32.5°	1519.7	1523.0	1489.9	1451.5	1420.2	1390.4	1375.8	1388.6	1505.1	1494.7	1024.0
35°	1694.8	1680.5	1635.9	1577.8	1533.4	1494.4	1472.0	1480.4	1574.8	1577.2	1050.9
37.5°	1875.3	1873.8	1824.4	1740.7	1668.0	1619.5	1581.3	1595.0	1672.8	1687.7	1093.7
40°	2043.6	2047.5	2004.6	1931.6	1838.1	1754.7	1713.9	1723.1	1803.0	1821.7	1145.9
42.5°	2153.5	2151.4	2154.7	2133.9	2040.0	1941.8	1880.4	1885.5	1954.3	1964.1	1211.1
45°	2204.2	2196.1	2224.1	2290.3	2253.0	2149.7	2079.7	2073.4	2111.2	2108.6	1270.4
47.5°	2160.4	2145.5	2209.8	2369.2	2441.3	2410.0	2309.9	2298.6	2266.4	2245.0	1332.0
50°	1942.6	1936.1	2073.7	2331.7	2559.5	2650.7	2577.1	2535.1	2404.9	2345.7	1364.5
52.5°	1735.6	1717.5	1810.4	2140.1	2506.8	2844.3	2859.5	2784.7	2519.9	2374.5	1353.5
55°	1402.0	1379.7	1481.0	1758.3	2298.0	2869.0	3057.8	3018.8	2620.6	2338.8	1331.1
57.5°	851.6	829.5	978.5	1259.4	1837.8	2663.5	3009.0	3048.6	2698.0	2299.5	1316.5
60°	358.0	344.0	402.4	601.1	1173.6	2189.0	2749.9	2848.7	2712.6	2245.6	1322.5
62.5°	186.2	179.9	183.2	240.7	474.5	1441.3	2288.8	2460.9	2565.5	2221.7	1328.5
65°	139.7	134.9	124.5	132.3	184.4	623.1	1644.8	1875.3	2246.5	2161.3	1288.2
67.5°	114.7	110.2	102.8	100.4	108.7	216.2	839.7	1139.3	1760.4	1903.6	1144.1
70°	91.4	90.0	87.6	83.1	81.6	104.8	301.1	464.4	1164.0	1342.5	829.2
72.5°	76.3	76.6	73.9	70.0	64.6	67.6	120.0	158.8	563.3	643.7	347.3
75°	63.7	63.7	64.6	59.3	53.9	46.5	66.7	77.4	180.8	148.6	74.2
77.5°	50.0	50.6	54.5	50.0	43.2	29.2	36.3	41.4	53.6	42.9	27.1
80°	39.9	39.3	37.8	45.0	38.7	20.6	17.3	19.1	25.0	20.6	13.4
82.5°	28.0	27.7	26.5	30.4	30.1	15.2	11.3	11.6	15.2	13.1	8.3
85°	6.9	8.0	17.0	14.3	12.5	8.9	6.9	7.4	9.8	8.6	4.5
87.5°	3.0	3.0	7.7	9.2	6.0	3.9	3.0	3.3	5.1	5.1	2.7
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°	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6	795.6
2.5°	798.3	778.9	754.5	728.6	702.1	670.2	649.9	633.3	620.1	610.0	606.4
5°	801.2	764.0	708.6	639.8	569.8	504.3	453.6	416.1	385.1	368.2	360.7
7.5°	800.9	751.5	651.4	536.1	422.4	327.9	260.9	219.5	191.8	180.5	173.7
10°	800.7	735.1	586.2	421.2	282.4	190.0	140.0	116.8	106.6	102.8	102.2
12.5°	809.3	716.4	513.2	310.1	177.2	118.3	97.4	92.0	89.7	88.5	88.2
15°	814.1	699.1	436.4	218.9	119.4	93.5	87.0	84.6	83.7	83.1	82.8
17.5°	819.1	672.3	363.4	158.5	95.6	84.9	81.0	79.5	78.9	78.9	78.9
20°	820.0	643.4	291.0	116.8	84.9	79.2	75.4	73.9	73.0	72.4	72.4
22.5°	813.5	609.1	228.8	94.7	78.6	73.9	69.7	67.3	65.8	65.5	65.5
25°	797.1	560.6	175.4	83.1	73.6	68.5	63.4	60.8	59.6	59.6	59.6
27.5°	773.5	503.4	135.5	73.9	67.0	62.0	57.5	55.1	54.8	54.5	54.8
30°	746.7	448.3	103.7	65.5	59.3	55.1	51.5	50.3	50.9	50.9	51.2
32.5°	719.9	393.2	81.0	59.0	52.4	48.8	47.1	47.1	48.0	48.0	48.0
35°	697.0	339.3	67.9	53.6	47.7	44.7	43.8	44.7	45.3	45.6	45.6
37.5°	684.2	292.8	59.9	48.8	43.8	41.4	41.1	42.0	43.2	44.1	44.4
40°	679.4	257.1	55.1	45.3	40.2	38.7	38.4	39.6	41.7	43.2	43.5
42.5°	679.7	225.5	50.9	41.7	37.8	35.7	35.7	37.5	39.6	41.1	41.1
45°	681.8	198.4	46.8	38.1	35.7	32.2	32.5	34.8	36.3	37.8	37.8
47.5°	683.6	176.6	42.3	34.3	31.0	29.2	29.8	31.6	33.7	36.0	36.0
50°	673.2	161.1	37.8	30.1	27.1	26.5	27.7	29.2	32.2	34.6	34.8
52.5°	648.1	147.1	34.0	26.8	24.4	24.7	26.2	27.1	29.5	29.8	30.1
55°	637.1	140.0	31.0	24.4	22.3	23.2	24.1	24.4	23.8	22.3	22.3
57.5°	634.7	135.2	28.0	22.0	20.6	21.7	21.4	19.7	17.9	16.1	15.8
60°	637.1	128.7	25.6	19.1	18.8	19.1	18.2	14.9	12.5	11.3	10.7
62.5°	623.4	119.1	23.5	16.4	16.4	16.1	13.7	10.1	8.0	7.1	6.9
65°	578.1	100.4	21.4	13.7	13.4	12.8	9.2	6.9	5.4	4.5	4.2
67.5°	489.1	77.7	19.4	11.3	10.7	8.9	6.0	4.5	3.0	2.7	2.4
70°	333.6	48.3	16.4	8.9	8.0	5.7	3.6	2.7	1.8	1.5	1.2
72.5°	120.9	28.0	13.7	6.9	5.4	3.6	2.1	1.2	0.9	0.9	0.6
75°	28.6	19.7	10.4	5.1	3.6	2.1	1.2	0.9	0.6	0.6	0.3
77.5°	13.1	15.2	6.9	3.0	2.4	1.5	0.9	0.6	0.3	0.3	0.0
80°	7.4	10.7	3.3	2.1	1.8	1.2	0.6	0.3	0.3	0.0	0.0
82.5°	3.9	6.0	2.4	1.8	1.5	0.9	0.6	0.0	0.0	0.0	0.0
85°	2.7	3.0	1.8	1.5	1.2	0.9	0.6	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	1.8	1.5	1.2	0.9	0.3	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)