

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: P674464

Luminaire Tested: **CCP-SA-2A-830-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674464
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

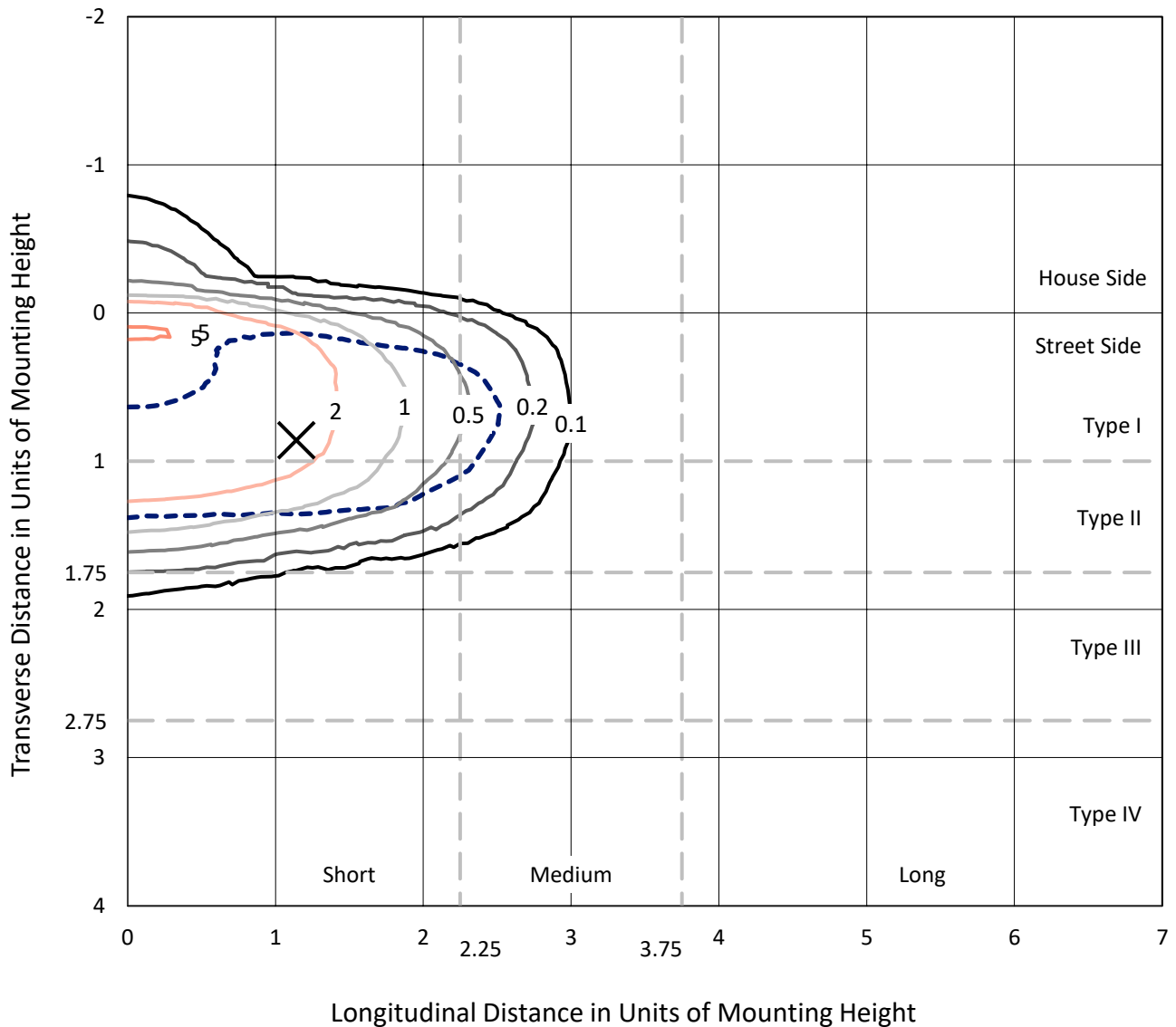
Lumens per Lamp: N/A
Luminaire Lumens: 3605.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 36.2
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

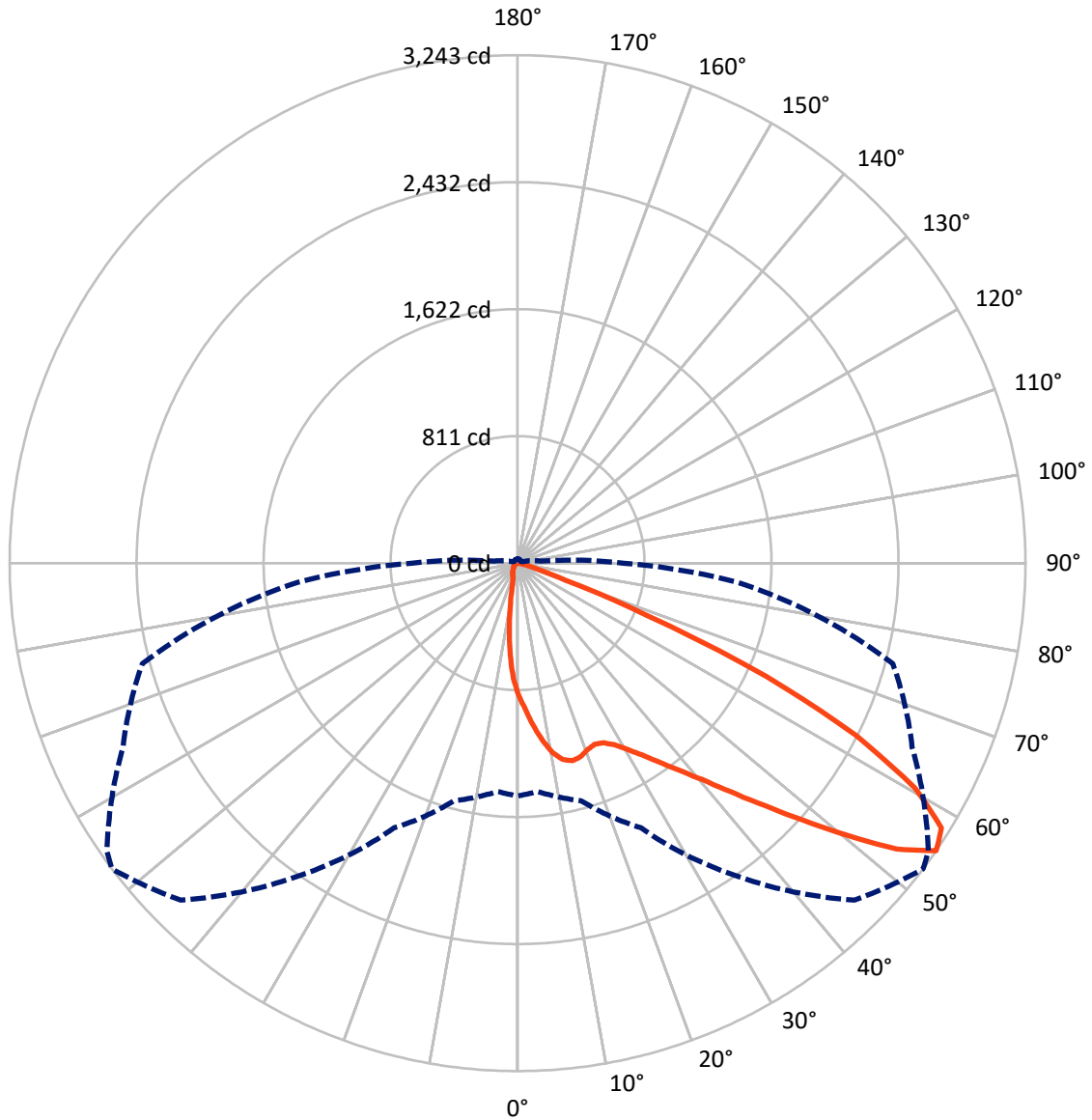
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 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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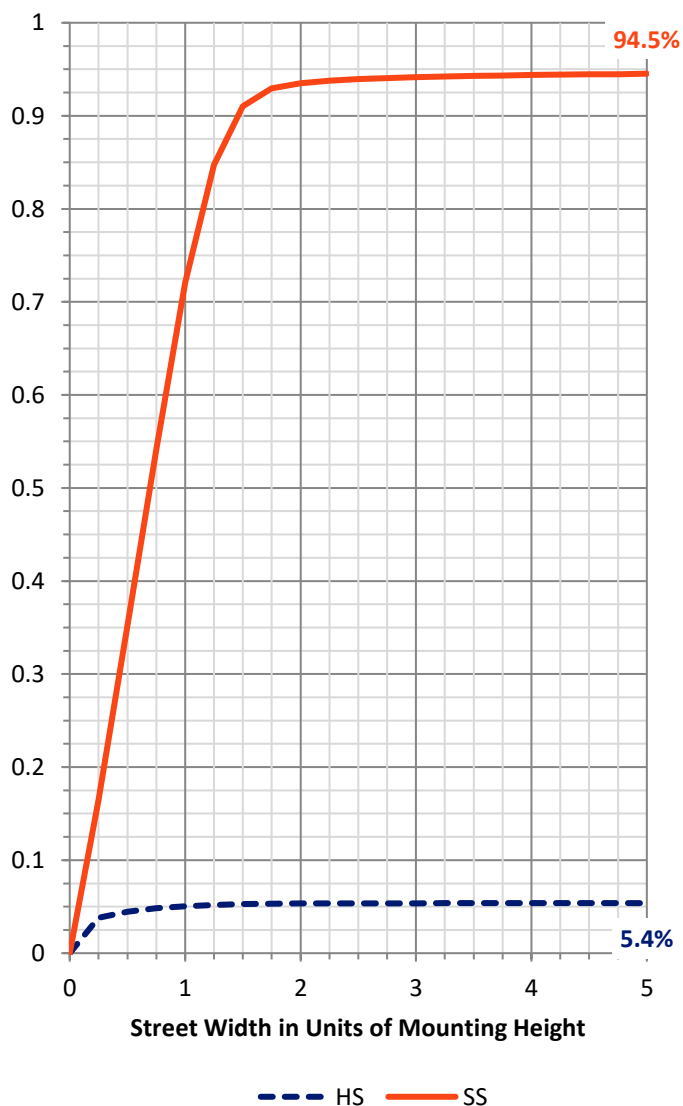
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.9	0.0	194.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	3410.5	0.0	3410.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	3605.4	0.0	3605.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.4	2.1
10°-20°	197.1	5.5
20°-30°	329.9	9.2
30°-40°	539.7	15.0
40°-50°	867.6	24.1
50°-60°	979.6	27.2
60°-70°	522.5	14.5
70°-80°	85.9	2.4
80°-90°	7.7	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°	3605.4	100.0
0°-180°	3605.4	100.0



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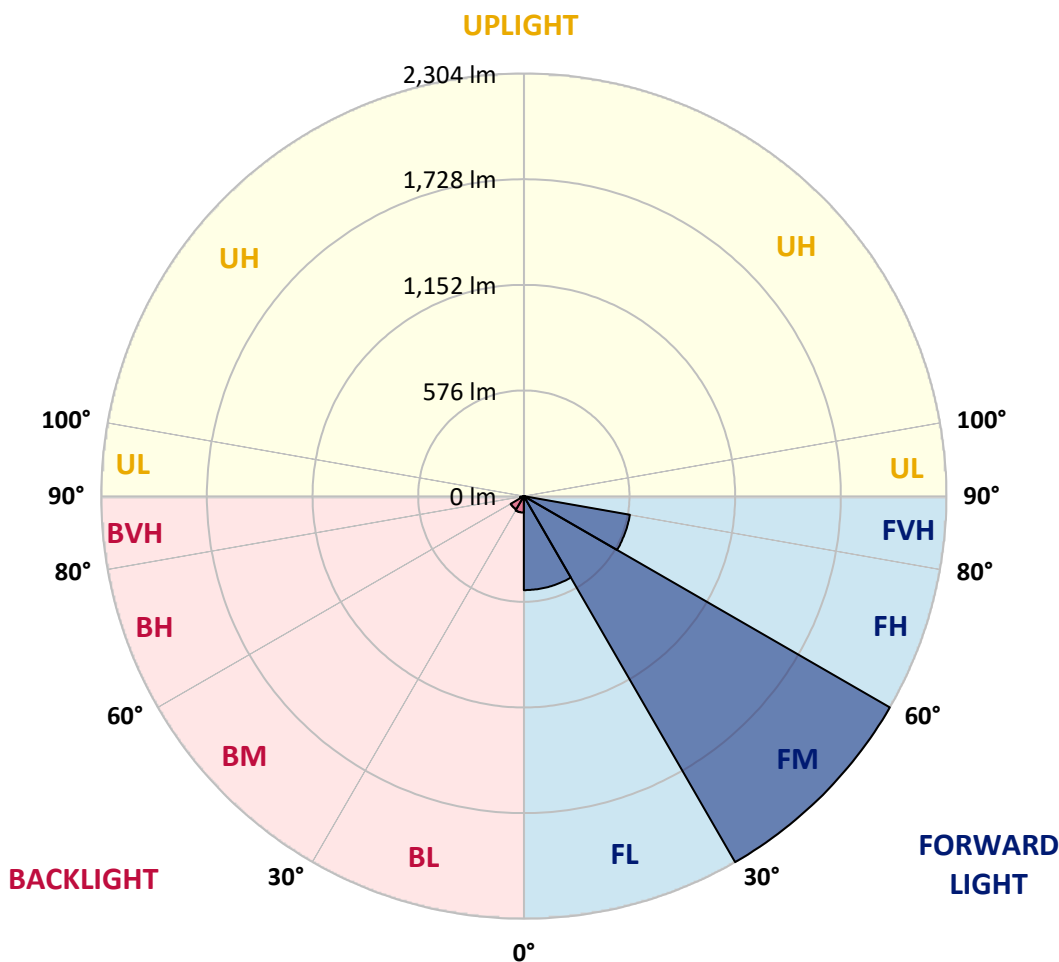
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.5	14.2			
FM (30°-60°)	2303.9	63.9			
FH (60°-80°)	587.0	16.3			G0/660
FVH (80°-90°)	7.1	0.2			G0/10
BL (0°-30°)	89.9	2.5	B0/110		
BM (30°-60°)	83.0	2.3	B0/220		
BH (60°-80°)	21.3	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°	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8
2.5°	1011.8	1005.8	1009.3	1000.1	983.4	962.5	931.3	932.8	908.2	886.7	857.0
5°	1178.9	1172.6	1170.7	1147.3	1123.9	1086.4	1039.9	1032.3	987.2	932.5	870.3
7.5°	1267.0	1261.7	1265.8	1257.3	1234.2	1200.1	1141.3	1135.6	1065.8	983.1	891.5
10°	1226.6	1224.7	1242.1	1262.3	1280.9	1276.8	1229.8	1220.9	1142.6	1038.7	913.2
12.5°	1117.9	1123.9	1146.1	1183.3	1240.8	1294.8	1287.3	1288.8	1220.9	1099.0	937.3
15°	1054.1	1061.4	1074.0	1093.3	1164.1	1260.1	1309.1	1324.9	1296.1	1166.3	965.7
17.5°	1048.8	1054.8	1056.7	1063.9	1105.3	1204.2	1300.2	1330.2	1363.1	1229.8	997.6
20°	1090.1	1092.7	1091.1	1085.7	1100.6	1173.9	1272.4	1315.4	1418.4	1297.4	1025.7
22.5°	1168.2	1164.4	1159.6	1139.7	1138.8	1182.4	1257.3	1302.1	1451.2	1353.3	1044.3
25°	1264.8	1256.9	1250.3	1222.2	1208.9	1226.9	1270.8	1306.8	1480.9	1407.6	1057.6
27.5°	1370.3	1372.9	1356.4	1318.5	1297.7	1293.9	1312.9	1339.7	1509.7	1456.3	1064.9
30°	1483.1	1484.4	1462.9	1423.7	1404.8	1380.5	1379.2	1395.3	1540.6	1512.2	1071.8
32.5°	1611.7	1615.2	1580.1	1539.3	1506.2	1474.6	1459.1	1472.7	1596.2	1585.2	1086.0
35°	1797.4	1782.3	1734.9	1673.3	1626.2	1584.8	1561.1	1570.0	1670.1	1672.7	1114.5
37.5°	1988.9	1987.3	1934.8	1846.1	1769.0	1717.5	1677.1	1691.6	1774.1	1789.8	1160.0
40°	2167.3	2171.4	2126.0	2048.6	1949.4	1860.9	1817.6	1827.4	1912.1	1932.0	1215.2
42.5°	2283.9	2281.7	2285.2	2263.1	2163.6	2059.3	1994.2	1999.6	2072.6	2083.0	1284.4
45°	2337.6	2329.1	2358.8	2428.9	2389.4	2279.8	2205.6	2198.9	2239.0	2236.2	1347.3
47.5°	2291.2	2275.4	2343.6	2512.6	2589.1	2555.9	2449.8	2437.7	2403.6	2380.9	1412.7
50°	2060.3	2053.3	2199.2	2472.8	2714.5	2811.1	2733.1	2688.6	2550.5	2487.7	1447.1
52.5°	1840.7	1821.4	1920.0	2269.7	2658.6	3016.5	3032.6	2953.3	2672.5	2518.3	1435.4
55°	1486.9	1463.2	1570.6	1864.7	2437.1	3042.7	3243.0	3201.6	2779.2	2480.4	1411.7
57.5°	903.1	879.8	1037.7	1335.6	1949.1	2824.7	3191.2	3233.2	2861.4	2438.7	1396.2
60°	379.7	364.9	426.8	637.5	1244.6	2321.5	2916.3	3021.2	2876.8	2381.5	1402.6
62.5°	197.4	190.8	194.3	255.2	503.2	1528.6	2427.3	2609.9	2720.8	2356.2	1408.9
65°	148.2	143.1	132.0	140.3	195.5	660.8	1744.4	1988.9	2382.5	2292.1	1366.2
67.5°	121.6	116.9	109.0	106.5	115.3	229.3	890.5	1208.3	1866.9	2018.9	1213.3
70°	97.0	95.4	92.9	88.1	86.6	111.2	319.4	492.5	1234.5	1423.7	879.4
72.5°	80.9	81.2	78.3	74.2	68.5	71.7	127.3	168.4	597.4	682.6	368.3
75°	67.6	67.6	68.5	62.9	57.2	49.3	70.8	82.1	191.7	157.6	78.7
77.5°	53.1	53.7	57.8	53.1	45.8	31.0	38.5	43.9	56.9	45.5	28.7
80°	42.3	41.7	40.1	47.7	41.1	21.8	18.3	20.2	26.5	21.8	14.2
82.5°	29.7	29.4	28.1	32.2	31.9	16.1	12.0	12.3	16.1	13.9	8.8
85°	7.3	8.5	18.0	15.2	13.3	9.5	7.3	7.9	10.4	9.2	4.7
87.5°	3.2	3.2	8.2	9.8	6.3	4.1	3.2	3.5	5.4	5.4	2.8
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°	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8	843.8
2.5°	846.6	826.1	800.2	772.7	744.6	710.8	689.3	671.6	657.7	646.9	643.2
5°	849.8	810.3	751.5	678.5	604.3	534.8	481.1	441.3	408.4	390.4	382.5
7.5°	849.4	797.0	690.9	568.6	447.9	347.8	276.7	232.8	203.4	191.4	184.2
10°	849.1	779.6	621.7	446.7	299.5	201.5	148.5	123.8	113.1	109.0	108.4
12.5°	858.3	759.7	544.3	328.8	188.0	125.4	103.3	97.6	95.1	93.8	93.5
15°	863.3	741.4	462.8	232.2	126.7	99.2	92.2	89.7	88.8	88.1	87.8
17.5°	868.7	713.0	385.4	168.1	101.4	90.0	85.9	84.3	83.7	83.7	83.7
20°	869.7	682.3	308.6	123.8	90.0	84.0	79.9	78.3	77.4	76.8	76.8
22.5°	862.7	646.0	242.6	100.5	83.4	78.3	73.9	71.4	69.8	69.5	69.5
25°	845.3	594.5	186.1	88.1	78.0	72.7	67.3	64.4	63.2	63.2	63.2
27.5°	820.4	533.9	143.7	78.3	71.1	65.7	61.0	58.4	58.1	57.8	58.1
30°	791.9	475.4	109.9	69.5	62.9	58.4	54.6	53.4	54.0	54.0	54.3
32.5°	763.5	417.0	85.9	62.5	55.6	51.8	49.9	49.9	50.9	50.9	50.9
35°	739.2	359.8	72.0	56.9	50.5	47.4	46.4	47.4	48.0	48.3	48.3
37.5°	725.6	310.5	63.5	51.8	46.4	43.9	43.6	44.5	45.8	46.8	47.1
40°	720.6	272.6	58.4	48.0	42.6	41.1	40.8	42.0	44.2	45.8	46.1
42.5°	720.9	239.1	54.0	44.2	40.1	37.9	37.9	39.8	42.0	43.6	43.6
45°	723.1	210.4	49.6	40.4	37.9	34.1	34.4	37.0	38.5	40.1	40.1
47.5°	725.0	187.3	44.9	36.3	32.9	31.0	31.6	33.5	35.7	38.2	38.2
50°	713.9	170.9	40.1	31.9	28.7	28.1	29.4	31.0	34.1	36.6	37.0
52.5°	687.4	156.1	36.0	28.4	25.9	26.2	27.8	28.7	31.3	31.6	31.9
55°	675.7	148.5	32.9	25.9	23.7	24.6	25.6	25.9	25.3	23.7	23.7
57.5°	673.2	143.4	29.7	23.4	21.8	23.1	22.7	20.8	19.0	17.1	16.7
60°	675.7	136.5	27.2	20.2	19.9	20.2	19.3	15.8	13.3	12.0	11.4
62.5°	661.2	126.4	25.0	17.4	17.4	17.1	14.5	10.7	8.5	7.6	7.3
65°	613.1	106.5	22.7	14.5	14.2	13.6	9.8	7.3	5.7	4.7	4.4
67.5°	518.7	82.4	20.5	12.0	11.4	9.5	6.3	4.7	3.2	2.8	2.5
70°	353.8	51.2	17.4	9.5	8.5	6.0	3.8	2.8	1.9	1.6	1.3
72.5°	128.3	29.7	14.5	7.3	5.7	3.8	2.2	1.3	0.9	0.9	0.6
75°	30.3	20.8	11.1	5.4	3.8	2.2	1.3	0.9	0.6	0.6	0.3
77.5°	13.9	16.1	7.3	3.2	2.5	1.6	0.9	0.6	0.3	0.3	0.0
80°	7.9	11.4	3.5	2.2	1.9	1.3	0.6	0.3	0.3	0.0	0.0
82.5°	4.1	6.3	2.5	1.9	1.6	0.9	0.6	0.0	0.0	0.0	0.0
85°	2.8	3.2	1.9	1.6	1.3	0.9	0.6	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	1.9	1.6	1.3	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)