

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: P674483

Luminaire Tested: **CCP-SA-1D-840-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674483  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-840-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

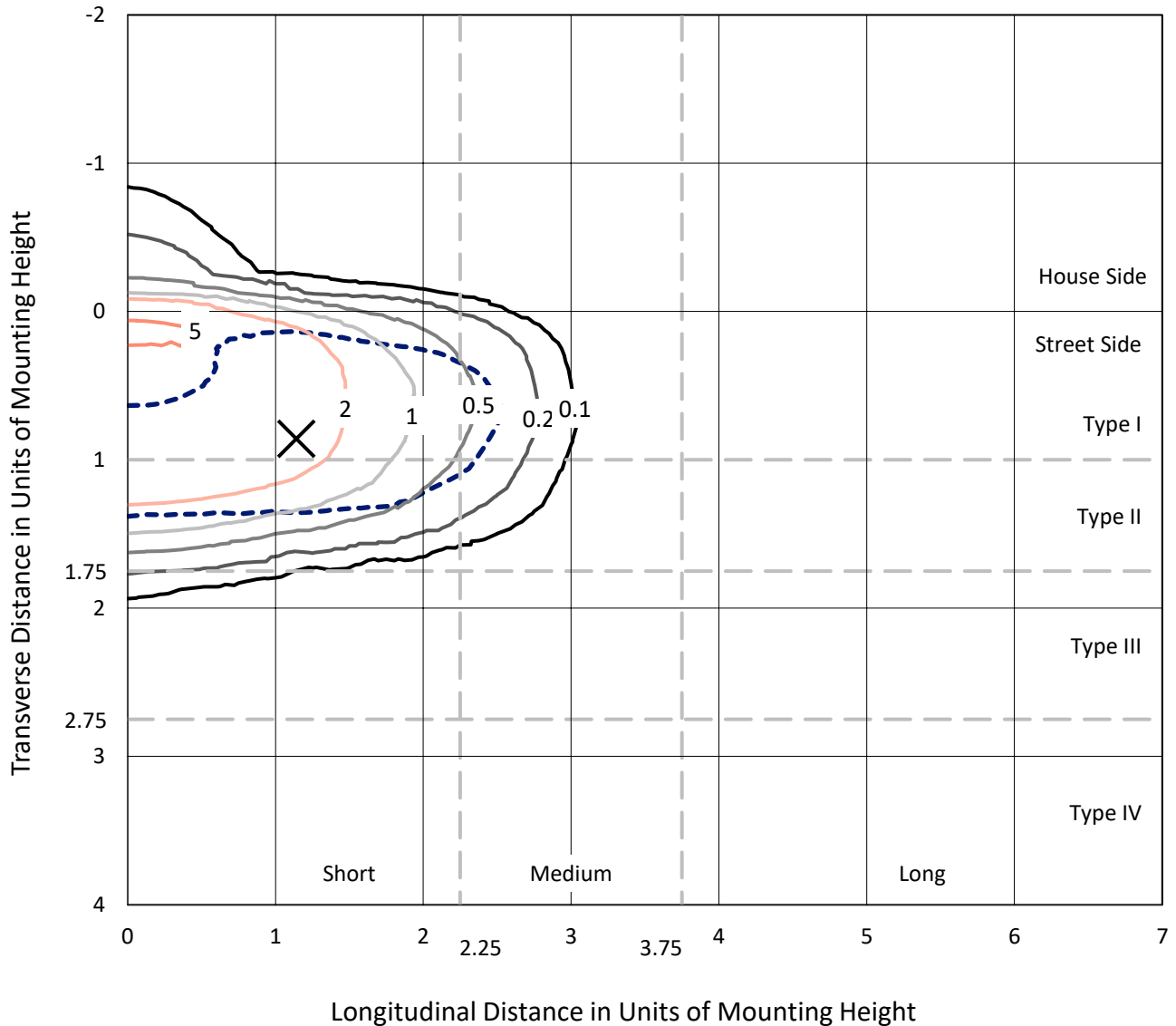
Lumens per Lamp: N/A  
Luminaire Lumens: 3943 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G0

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

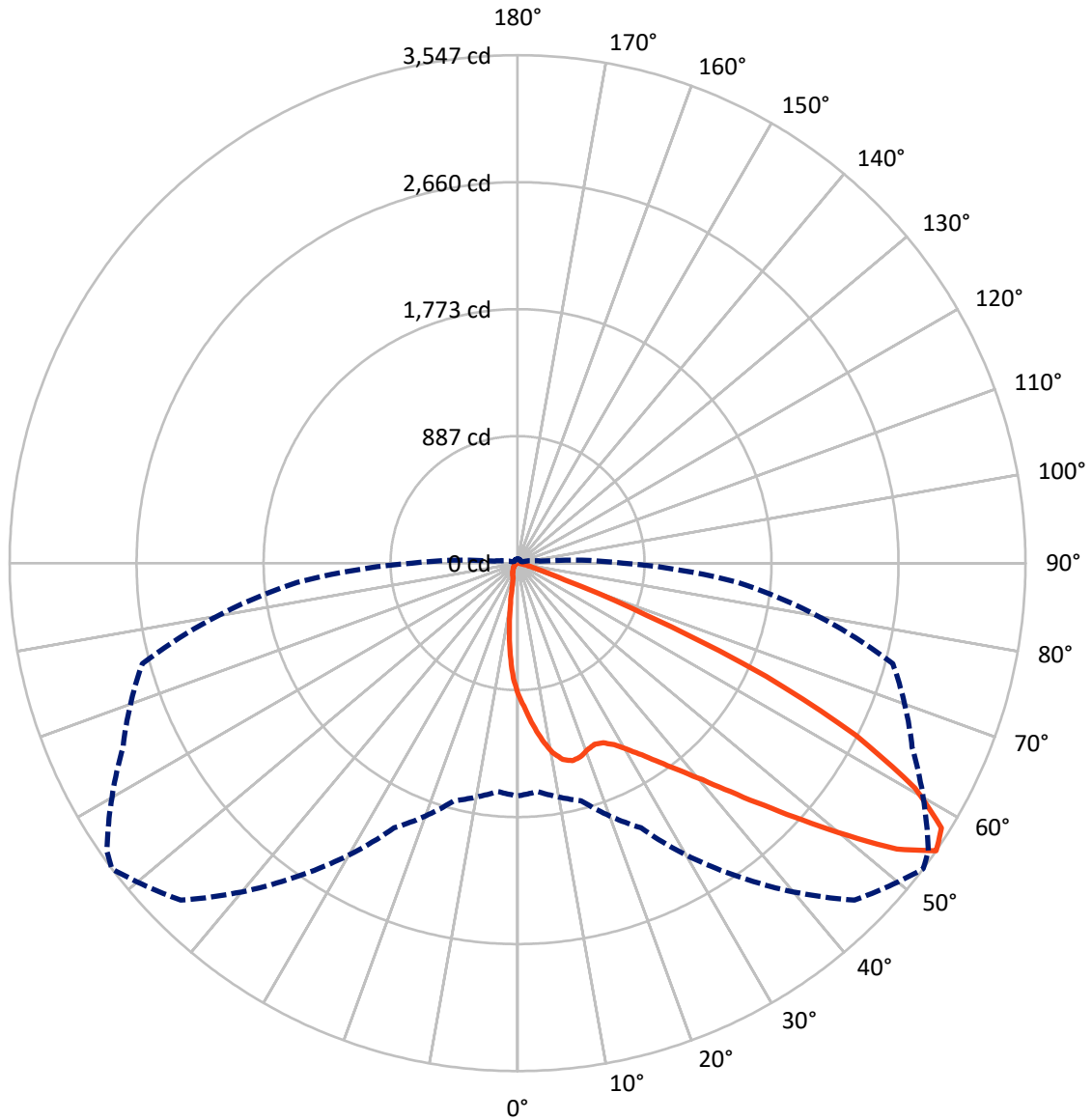
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 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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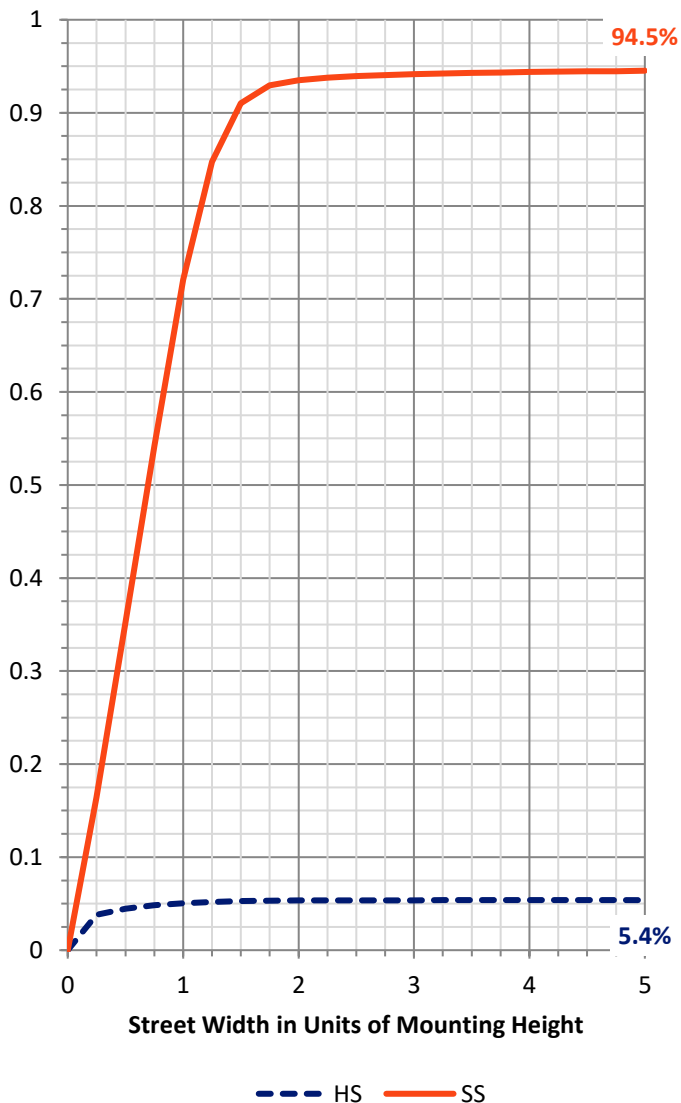
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	213.1	0.0	213.1
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	3729.9	0.0	3729.9
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	3943.0	0.0	3943.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	2.1
10°-20°	215.6	5.5
20°-30°	360.8	9.2
30°-40°	590.3	15.0
40°-50°	948.8	24.1
50°-60°	1071.3	27.2
60°-70°	571.4	14.5
70°-80°	93.9	2.4
80°-90°	8.4	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°	3943.0	100.0
0°-180°	3943.0	100.0

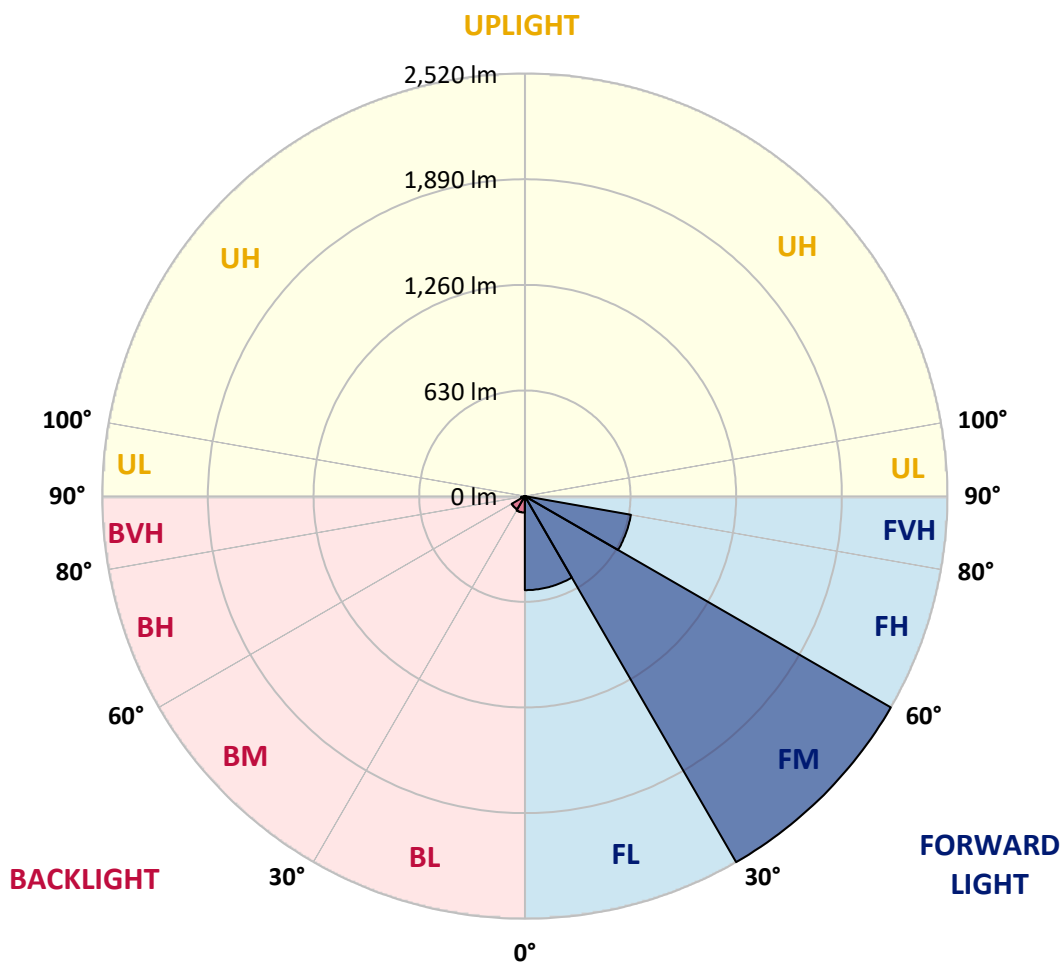


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.5	14.2			
FM (30°-60°)	2519.6	63.9			
FH (60°-80°)	642.0	16.3			G0/660
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	98.4	2.5	B0/110		
BM (30°-60°)	90.8	2.3	B0/220		
BH (60°-80°)	23.3	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	1106.5	1100.0	1103.8	1093.8	1075.5	1052.7	1018.5	1020.2	993.2	969.7	937.3
5°	1289.3	1282.4	1280.3	1254.8	1229.2	1188.1	1137.3	1129.0	1079.6	1019.8	951.8
7.5°	1385.7	1379.8	1384.3	1375.0	1349.8	1312.4	1248.2	1242.0	1165.6	1075.1	974.9
10°	1341.5	1339.4	1358.4	1380.5	1400.9	1396.4	1344.9	1335.2	1249.6	1135.9	998.8
12.5°	1222.6	1229.2	1253.4	1294.1	1357.0	1416.1	1407.8	1409.5	1335.2	1201.9	1025.0
15°	1152.8	1160.8	1174.6	1195.7	1273.1	1378.1	1431.6	1448.9	1417.5	1275.5	1056.1
17.5°	1147.0	1153.5	1155.6	1163.5	1208.8	1316.9	1422.0	1454.8	1490.7	1344.9	1091.0
20°	1192.2	1195.0	1193.3	1187.4	1203.6	1283.8	1391.6	1438.5	1551.2	1418.9	1121.7
22.5°	1277.6	1273.4	1268.2	1246.5	1245.4	1293.1	1375.0	1424.0	1587.1	1480.0	1142.1
25°	1383.3	1374.6	1367.4	1336.6	1322.1	1341.8	1389.8	1429.2	1619.6	1539.4	1156.6
27.5°	1498.7	1501.4	1483.5	1442.0	1419.2	1415.1	1435.8	1465.1	1651.0	1592.6	1164.6
30°	1622.0	1623.4	1599.9	1557.0	1536.3	1509.7	1508.3	1525.9	1684.9	1653.8	1172.2
32.5°	1762.6	1766.4	1728.0	1683.5	1647.2	1612.7	1595.7	1610.6	1745.7	1733.6	1187.7
35°	1965.7	1949.2	1897.3	1830.0	1778.5	1733.2	1707.3	1717.0	1826.5	1829.3	1218.8
37.5°	2175.1	2173.4	2116.0	2018.9	1934.6	1878.3	1834.1	1850.0	1940.2	1957.4	1268.6
40°	2370.3	2374.8	2325.0	2240.4	2131.9	2035.2	1987.8	1998.6	2091.1	2112.9	1329.0
42.5°	2497.8	2495.3	2499.1	2475.0	2366.1	2252.1	2181.0	2186.8	2266.6	2278.0	1404.7
45°	2556.5	2547.2	2579.6	2656.3	2613.1	2493.3	2412.1	2404.8	2448.7	2445.6	1473.4
47.5°	2505.7	2488.4	2563.1	2747.9	2831.5	2795.2	2679.1	2666.0	2628.7	2603.8	1544.9
50°	2253.2	2245.6	2405.2	2704.4	2968.6	3074.4	2989.0	2940.3	2789.3	2720.6	1582.6
52.5°	2013.1	1992.0	2099.8	2482.2	2907.5	3298.9	3316.5	3229.8	2922.7	2754.1	1569.8
55°	1626.1	1600.2	1717.7	2039.3	2665.3	3327.6	3546.6	3501.4	3039.5	2712.6	1543.9
57.5°	987.7	962.1	1134.9	1460.7	2131.6	3089.2	3490.0	3535.9	3129.3	2667.0	1527.0
60°	415.3	399.0	466.7	697.2	1361.2	2538.9	3189.4	3304.1	3146.2	2604.5	1533.9
62.5°	215.9	208.7	212.5	279.1	550.3	1671.7	2654.6	2854.3	2975.5	2576.9	1540.8
65°	162.0	156.5	144.4	153.4	213.8	722.7	1907.7	2175.1	2605.5	2506.7	1494.2
67.5°	133.0	127.8	119.2	116.4	126.1	250.8	973.9	1321.4	2041.7	2207.9	1327.0
70°	106.1	104.3	101.6	96.4	94.7	121.6	349.3	538.6	1350.1	1557.0	961.8
72.5°	88.4	88.8	85.7	81.2	75.0	78.4	139.2	184.1	653.3	746.6	402.8
75°	73.9	73.9	75.0	68.7	62.5	53.9	77.4	89.8	209.7	172.4	86.0
77.5°	58.0	58.7	63.2	58.0	50.1	33.9	42.1	48.0	62.2	49.7	31.4
80°	46.3	45.6	43.9	52.2	44.9	23.8	20.0	22.1	29.0	23.8	15.5
82.5°	32.5	32.1	30.7	35.2	34.9	17.6	13.1	13.5	17.6	15.2	9.7
85°	7.9	9.3	19.7	16.6	14.5	10.4	7.9	8.6	11.4	10.0	5.2
87.5°	3.5	3.5	9.0	10.7	6.9	4.5	3.5	3.8	5.9	5.9	3.1
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°	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8	922.8
2.5°	925.9	903.4	875.1	845.0	814.3	777.3	753.8	734.5	719.3	707.5	703.4
5°	929.3	886.1	821.9	742.1	660.9	584.9	526.2	482.6	446.7	427.0	418.4
7.5°	929.0	871.6	755.5	621.8	489.9	380.4	302.6	254.6	222.5	209.4	201.4
10°	928.6	852.6	679.9	488.5	327.5	220.4	162.4	135.4	123.7	119.2	118.5
12.5°	938.6	830.9	595.2	359.6	205.6	137.2	113.0	106.8	104.0	102.6	102.3
15°	944.2	810.8	506.1	253.9	138.5	108.5	100.9	98.1	97.1	96.4	96.0
17.5°	950.0	779.7	421.5	183.8	110.9	98.5	94.0	92.2	91.5	91.5	91.5
20°	951.1	746.2	337.5	135.4	98.5	91.9	87.4	85.7	84.6	83.9	83.9
22.5°	943.5	706.5	265.3	109.9	91.2	85.7	80.8	78.1	76.3	76.0	76.0
25°	924.5	650.2	203.5	96.4	85.3	79.5	73.6	70.5	69.1	69.1	69.1
27.5°	897.2	583.8	157.2	85.7	77.7	71.9	66.7	63.9	63.6	63.2	63.6
30°	866.1	519.9	120.2	76.0	68.7	63.9	59.8	58.4	59.1	59.1	59.4
32.5°	835.0	456.0	94.0	68.4	60.8	56.7	54.6	54.6	55.6	55.6	55.6
35°	808.4	393.5	78.8	62.2	55.3	51.8	50.8	51.8	52.5	52.9	52.9
37.5°	793.5	339.6	69.4	56.7	50.8	48.0	47.7	48.7	50.1	51.1	51.5
40°	788.0	298.1	63.9	52.5	46.6	44.9	44.6	45.9	48.4	50.1	50.4
42.5°	788.4	261.5	59.1	48.4	43.9	41.5	41.5	43.5	45.9	47.7	47.7
45°	790.8	230.1	54.2	44.2	41.5	37.3	37.7	40.4	42.1	43.9	43.9
47.5°	792.9	204.9	49.1	39.7	35.9	33.9	34.5	36.6	39.0	41.8	41.8
50°	780.8	186.9	43.9	34.9	31.4	30.7	32.1	33.9	37.3	40.1	40.4
52.5°	751.7	170.7	39.4	31.1	28.3	28.7	30.4	31.4	34.2	34.5	34.9
55°	739.0	162.4	35.9	28.3	25.9	26.9	28.0	28.3	27.6	25.9	25.9
57.5°	736.2	156.8	32.5	25.6	23.8	25.2	24.9	22.8	20.7	18.7	18.3
60°	739.0	149.2	29.7	22.1	21.8	22.1	21.1	17.3	14.5	13.1	12.4
62.5°	723.1	138.2	27.3	19.0	19.0	18.7	15.9	11.7	9.3	8.3	7.9
65°	670.6	116.4	24.9	15.9	15.5	14.9	10.7	7.9	6.2	5.2	4.8
67.5°	567.3	90.2	22.5	13.1	12.4	10.4	6.9	5.2	3.5	3.1	2.8
70°	386.9	56.0	19.0	10.4	9.3	6.6	4.1	3.1	2.1	1.7	1.4
72.5°	140.3	32.5	15.9	7.9	6.2	4.1	2.4	1.4	1.0	1.0	0.7
75°	33.2	22.8	12.1	5.9	4.1	2.4	1.4	1.0	0.7	0.7	0.3
77.5°	15.2	17.6	7.9	3.5	2.8	1.7	1.0	0.7	0.3	0.3	0.0
80°	8.6	12.4	3.8	2.4	2.1	1.4	0.7	0.3	0.3	0.0	0.0
82.5°	4.5	6.9	2.8	2.1	1.7	1.0	0.7	0.0	0.0	0.0	0.0
85°	3.1	3.5	2.1	1.7	1.4	1.0	0.7	0.0	0.0	0.0	0.0
87.5°	2.4	2.4	2.1	1.7	1.4	1.0	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)