

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: P672043

Luminaire Tested: **CCP-SA-1A-850-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ AFL
distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2409.1 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

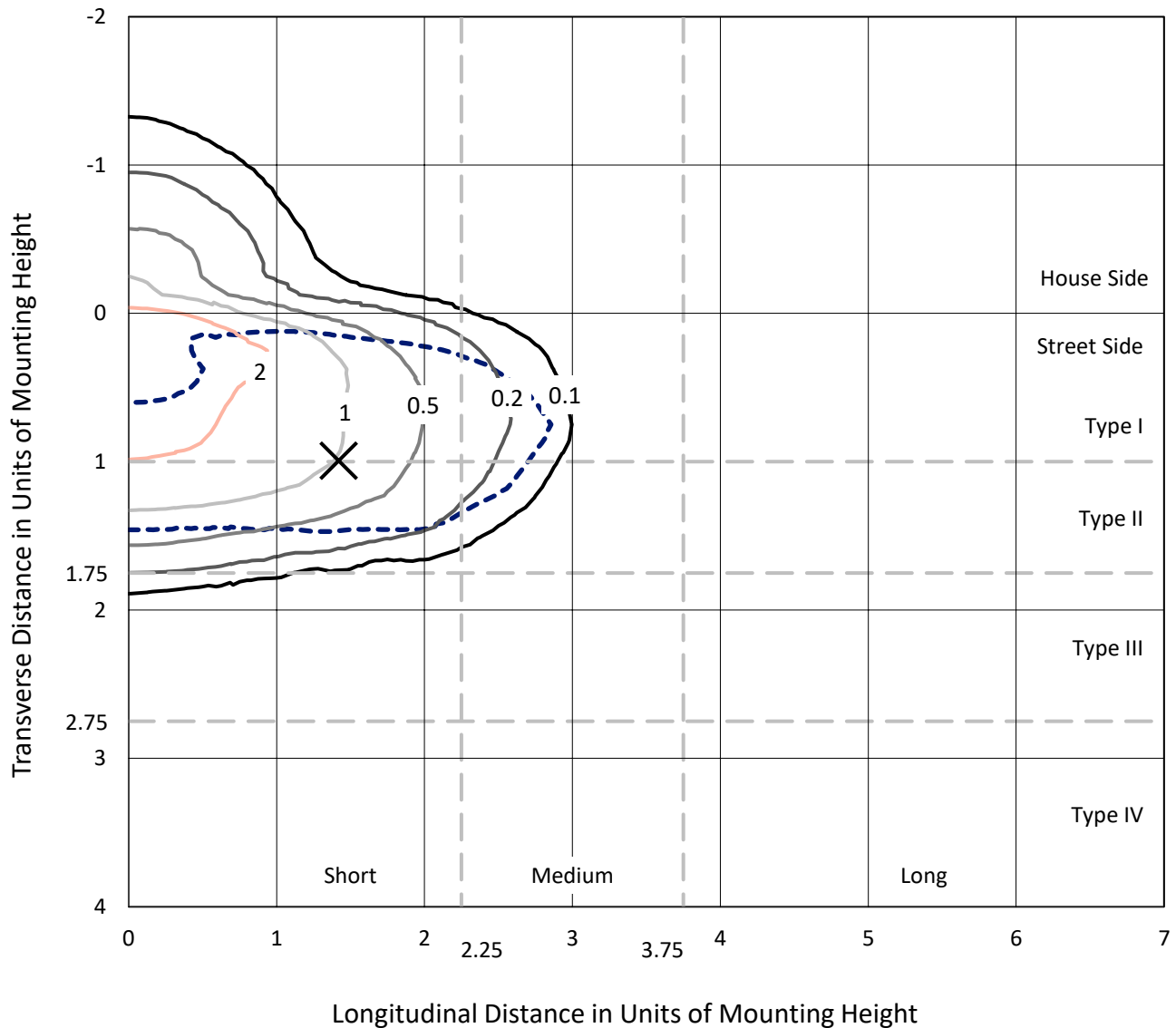
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

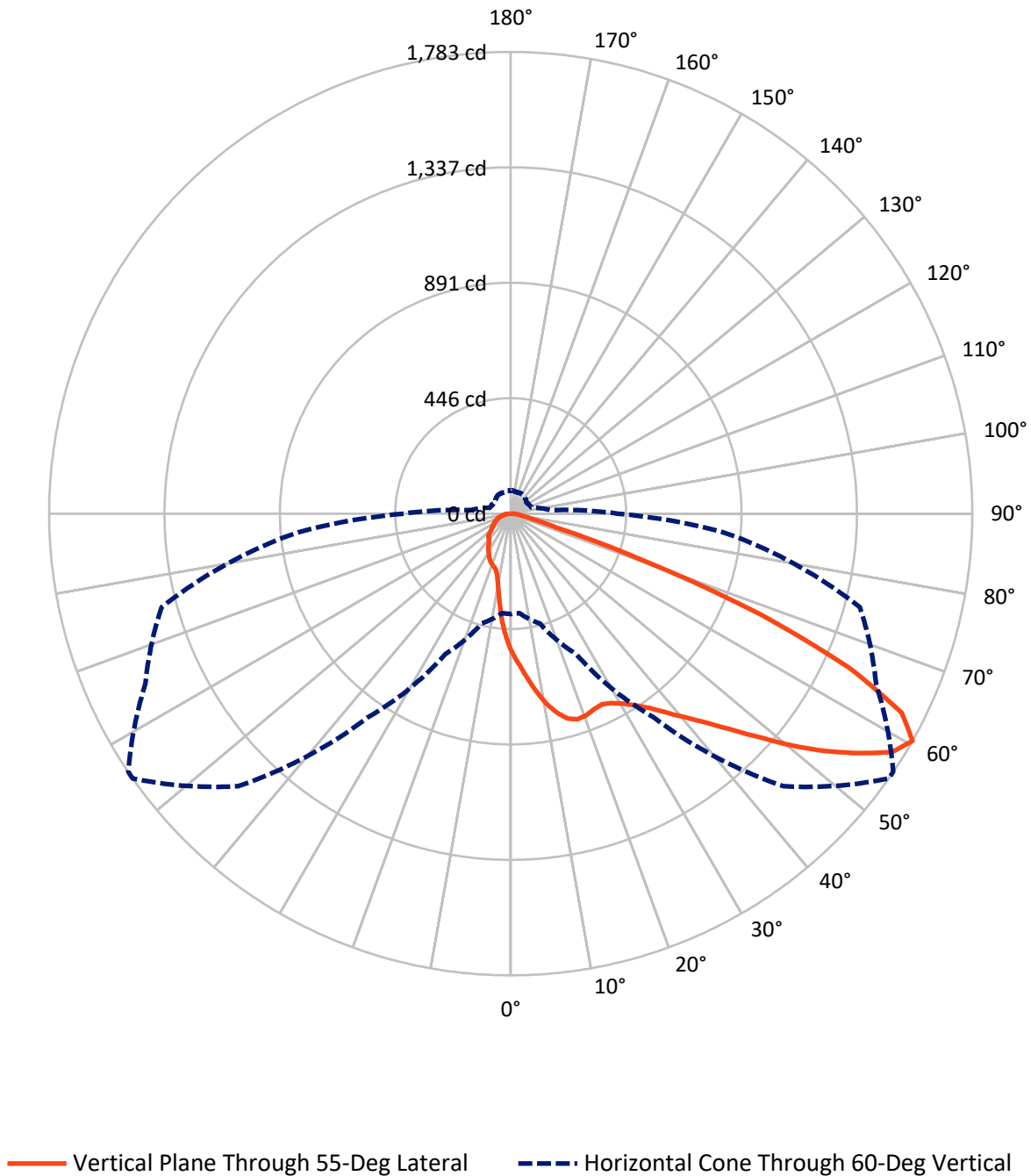
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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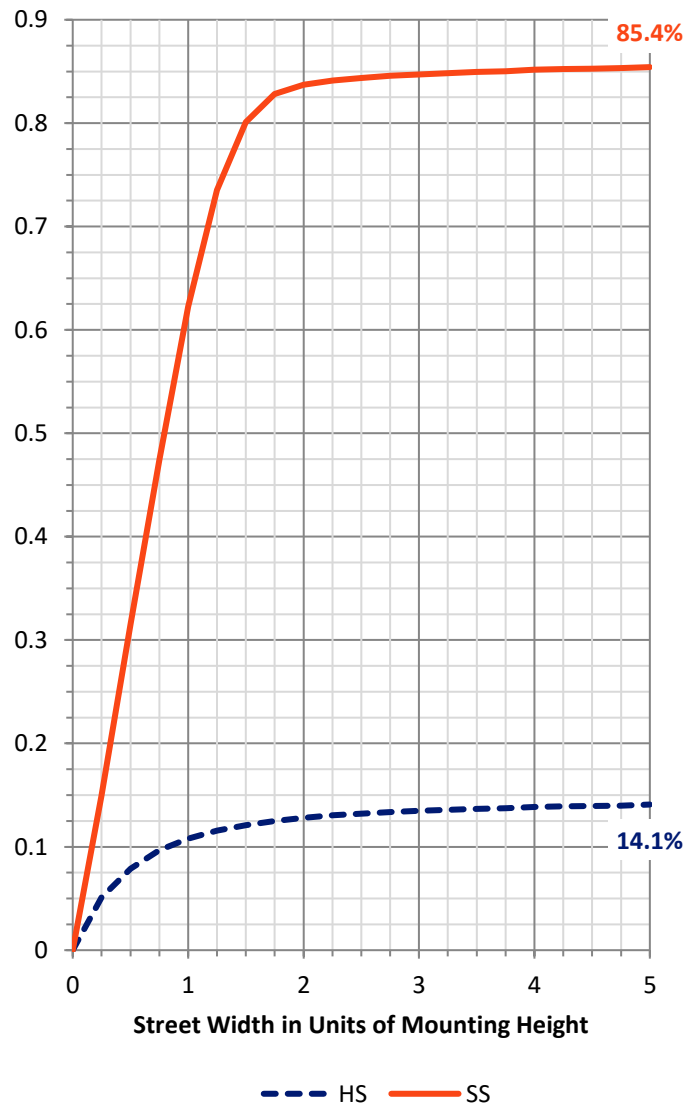
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	346.3	0.0	346.3
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	2062.8	0.0	2062.8
	% Fixture	85.6	0.0	85.6
Total	Lumens	2409.1	0.0	2409.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	2.1
10°-20°	141.7	5.9
20°-30°	230.6	9.6
30°-40°	344.7	14.3
40°-50°	506.7	21.0
50°-60°	593.8	24.6
60°-70°	391.5	16.3
70°-80°	124.7	5.2
80°-90°	25.4	1.1
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°	2409.1	100.0
0°-180°	2409.1	100.0



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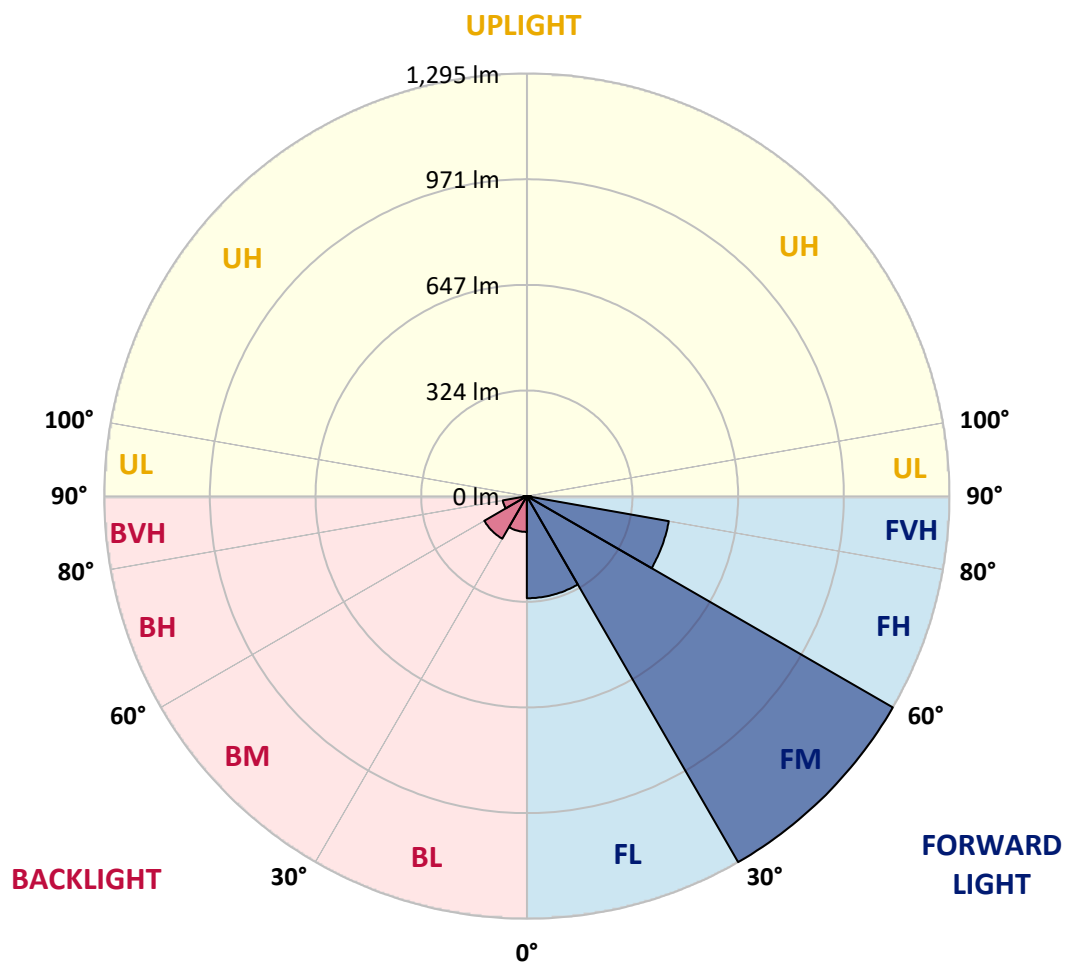
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	312.7	13.0			
FM	(30°-60°)	1294.7	53.7			
FH	(60°-80°)	441.5	18.3			G0/660
FVH	(80°-90°)	13.9	0.6			G1/100
BL	(0°-30°)	109.6	4.6	B0/110		
BM	(30°-60°)	150.5	6.2	B0/220		
BH	(60°-80°)	74.7	3.1	B0/110		G0/110
BVH	(80°-90°)	11.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	621.8	619.5	619.5	613.7	605.2	593.3	579.2	575.7	570.3	556.5	538.7
5°	716.6	714.1	710.8	700.7	684.8	661.1	631.2	625.8	606.4	577.9	545.8
7.5°	779.3	777.9	776.8	768.1	752.4	729.0	689.0	682.9	650.1	602.9	552.6
10°	772.8	777.0	784.3	790.4	793.6	781.5	744.0	736.8	696.1	631.9	562.7
12.5°	712.2	718.1	731.8	756.7	785.5	808.8	787.5	783.4	745.4	662.6	575.5
15°	667.2	669.6	676.2	694.7	737.7	799.7	821.2	817.5	791.3	702.1	590.2
17.5°	653.2	654.2	655.8	661.9	691.3	764.2	835.0	838.4	835.8	743.1	606.7
20°	660.2	660.9	661.1	662.1	676.1	734.6	831.3	837.2	874.9	784.1	623.2
22.5°	687.1	686.2	685.0	681.0	688.8	729.3	821.5	830.9	905.1	821.5	638.4
25°	734.0	732.8	724.3	715.9	719.2	748.2	816.3	826.4	928.7	856.8	649.5
27.5°	789.9	788.7	780.0	764.1	760.6	779.6	828.5	834.8	946.0	888.0	654.4
30°	847.9	847.9	837.1	818.7	807.5	815.6	851.0	856.1	959.1	918.2	657.6
32.5°	911.1	912.8	896.1	875.1	862.7	858.0	882.6	887.0	978.1	953.9	664.2
35°	992.3	988.4	968.0	940.4	920.5	909.9	921.7	926.8	1006.1	998.2	674.8
37.5°	1083.6	1076.8	1051.6	1018.6	983.9	966.1	973.9	975.2	1047.4	1056.0	694.2
40°	1159.0	1157.8	1136.5	1105.2	1061.4	1037.5	1033.7	1034.4	1104.9	1124.5	723.6
42.5°	1222.6	1218.0	1214.2	1203.2	1156.8	1117.5	1101.8	1101.9	1167.2	1195.2	753.1
45°	1250.7	1249.8	1261.2	1289.5	1256.1	1209.8	1187.5	1190.6	1238.6	1267.8	781.5
47.5°	1238.6	1239.3	1269.7	1343.9	1363.7	1328.2	1288.6	1286.7	1307.8	1323.5	806.7
50°	1131.1	1142.4	1224.7	1349.0	1434.2	1451.8	1407.1	1400.0	1368.4	1367.8	822.0
52.5°	1049.9	1049.4	1099.8	1297.5	1459.2	1563.4	1523.2	1507.2	1418.5	1392.8	823.3
55°	940.2	939.5	977.1	1146.8	1409.6	1641.3	1632.7	1612.6	1464.4	1401.0	814.9
57.5°	712.0	725.3	762.7	918.1	1252.4	1628.9	1737.3	1720.5	1509.3	1397.4	813.3
60°	387.4	385.9	440.0	598.4	958.9	1488.2	1782.9	1782.0	1556.9	1396.0	822.9
62.5°	178.6	176.9	187.7	266.4	549.8	1192.2	1694.9	1707.5	1601.1	1383.2	822.0
65°	133.6	129.0	114.4	124.0	210.4	711.7	1439.6	1473.1	1533.0	1330.8	784.0
67.5°	119.1	114.7	97.6	91.5	105.6	251.1	1044.3	1075.2	1281.9	1232.7	722.3
70°	109.1	105.3	88.2	78.6	79.3	111.2	546.7	607.4	939.5	1028.8	615.7
72.5°	99.5	96.2	80.7	69.1	66.7	73.5	186.3	224.7	584.4	749.7	459.0
75°	89.4	86.3	72.6	62.0	57.3	54.5	88.7	95.5	309.0	414.0	246.4
77.5°	77.7	76.0	64.8	54.7	50.6	41.2	59.0	62.0	132.3	162.6	117.3
80°	67.6	66.2	57.8	49.6	45.4	31.8	40.7	42.8	65.3	81.2	65.7
82.5°	44.0	47.5	47.8	42.6	40.0	25.5	26.9	28.5	43.3	47.8	28.6
85°	18.2	22.0	33.0	29.3	27.8	21.7	17.8	18.2	26.5	27.9	10.3
87.5°	8.2	9.1	16.2	16.4	14.3	8.2	8.9	9.8	13.6	13.4	4.5
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°	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3	534.3
2.5°	533.8	525.7	511.4	493.1	480.0	470.4	459.9	452.2	443.7	436.2	437.4
5°	532.5	517.0	484.9	450.8	417.7	390.4	367.7	351.0	333.7	326.9	326.0
7.5°	533.6	507.2	454.5	398.8	348.3	313.6	287.2	271.3	261.4	255.6	256.0
10°	533.2	498.0	421.7	344.8	289.7	257.9	241.8	236.6	235.7	236.4	237.5
12.5°	533.8	485.4	384.8	296.3	247.6	231.4	232.0	236.8	239.7	241.7	242.9
15°	536.0	475.1	347.1	258.1	225.6	226.1	233.6	241.0	245.3	247.4	248.5
17.5°	539.4	462.2	313.6	229.1	216.3	224.4	234.1	242.0	245.3	246.5	247.4
20°	539.7	447.3	279.7	209.2	210.2	220.7	229.3	235.5	239.7	241.1	241.8
22.5°	538.1	427.3	245.0	194.7	203.2	213.7	221.0	228.2	222.6	218.1	216.9
25°	531.5	401.9	215.3	182.8	194.5	204.3	212.7	204.8	202.2	198.7	199.0
27.5°	517.2	370.3	187.4	171.6	184.2	198.2	192.1	191.0	187.7	184.2	184.2
30°	498.3	337.0	164.0	159.9	171.8	178.8	180.2	178.6	176.7	172.2	172.5
32.5°	481.4	301.7	147.4	150.2	164.0	164.0	170.1	170.1	163.1	150.3	150.3
35°	464.6	268.5	135.1	142.0	151.0	154.0	162.4	151.4	141.4	135.7	135.3
37.5°	451.5	240.3	127.1	135.0	138.5	146.0	146.1	138.1	134.8	129.6	129.0
40°	443.8	216.5	122.2	131.5	131.8	138.8	127.3	129.6	128.9	124.8	124.3
42.5°	439.7	198.2	118.6	128.5	126.8	120.0	117.9	121.7	122.9	120.8	120.0
45°	436.3	183.9	115.6	118.2	122.7	110.3	109.5	112.4	115.1	114.9	114.2
47.5°	434.6	173.9	113.0	111.7	112.6	104.6	102.8	104.2	107.6	109.7	109.5
50°	427.8	166.2	109.1	105.1	99.5	99.5	98.7	98.7	102.7	106.9	107.2
52.5°	415.7	157.1	103.5	98.8	92.4	95.2	95.5	94.8	99.0	103.5	103.9
55°	402.5	150.3	96.0	93.1	86.4	91.1	92.7	92.0	94.8	98.0	97.8
57.5°	402.6	150.2	89.6	87.3	80.8	86.1	89.9	90.1	89.9	92.2	92.2
60°	412.8	153.7	84.5	79.6	74.4	80.7	87.0	87.0	85.7	89.0	89.4
62.5°	415.7	153.3	81.4	72.3	68.6	75.8	82.6	83.6	82.8	87.5	88.0
65°	389.5	145.1	78.2	65.7	63.4	70.4	77.2	80.1	79.3	85.4	86.1
67.5°	353.2	134.4	73.3	59.7	58.0	65.1	71.6	74.7	74.6	82.6	82.9
70°	304.5	121.3	67.2	53.6	52.7	59.0	64.8	68.1	69.7	78.9	78.7
72.5°	235.9	104.1	58.0	47.1	47.0	52.7	57.8	61.5	64.4	73.3	73.3
75°	152.1	81.9	47.3	40.9	40.2	45.6	50.8	55.0	64.1	78.2	78.0
77.5°	92.9	62.5	38.1	34.0	33.9	38.8	44.0	51.2	70.0	69.7	67.7
80°	55.7	44.9	30.4	27.2	27.2	31.8	37.5	54.8	58.1	66.3	62.7
82.5°	29.0	27.6	22.7	20.1	21.0	25.0	34.2	43.8	47.5	40.3	37.0
85°	11.9	14.7	14.0	12.7	13.3	17.3	33.0	35.1	28.1	29.5	29.7
87.5°	4.0	6.5	6.5	5.1	5.6	12.2	19.6	11.7	14.1	8.4	6.3
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)