

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: P672011

Luminaire Tested: **CCP-SA-1B-830-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672011
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-830-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL
distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2769.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

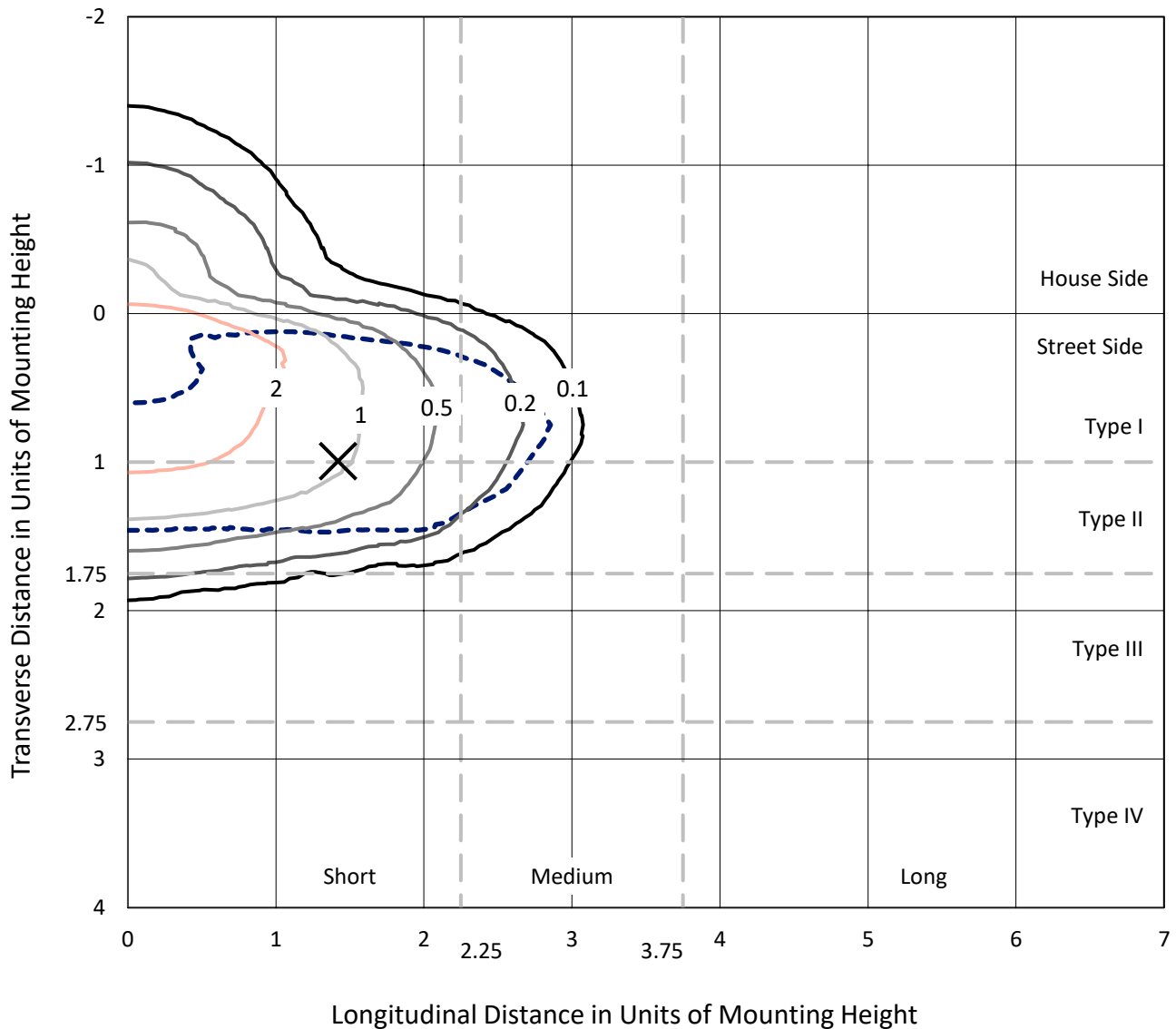
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

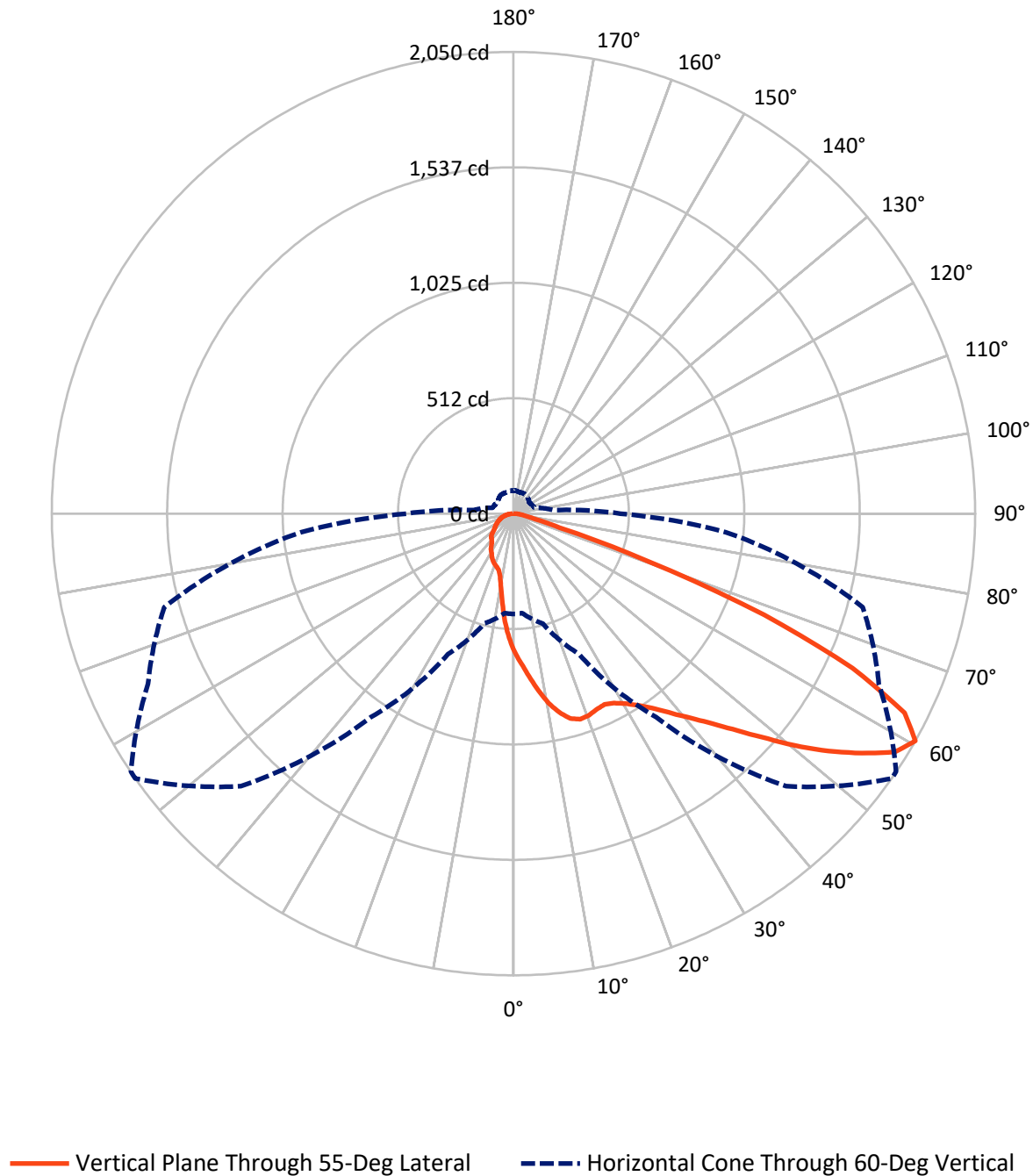
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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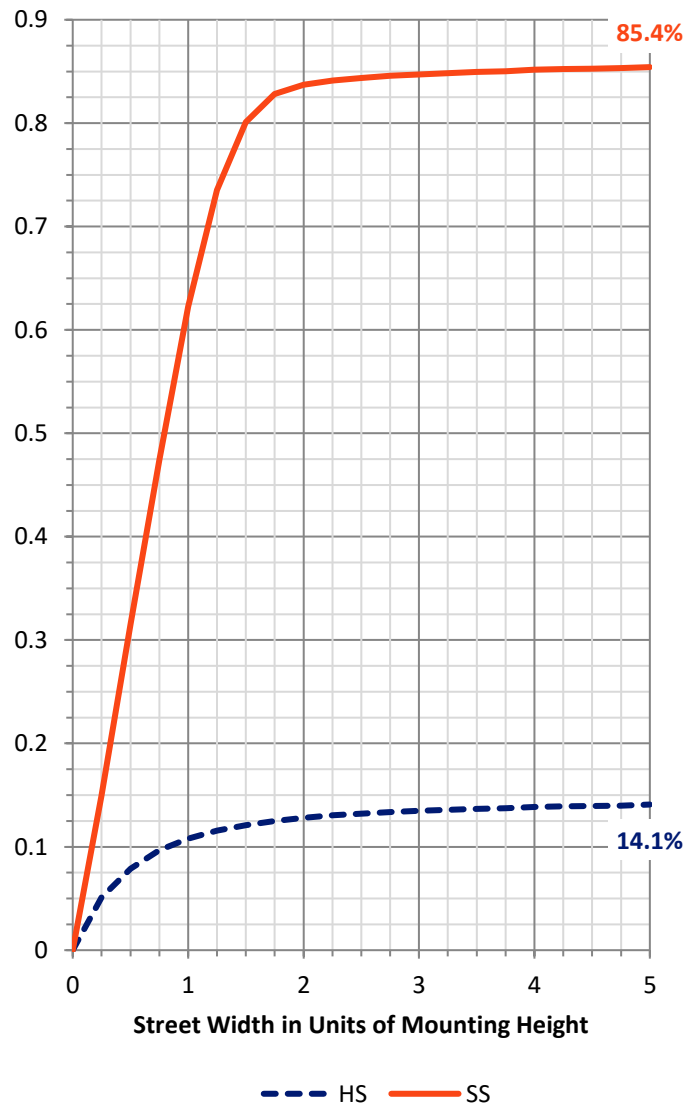
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	398.1	0.0	398.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	2371.3	0.0	2371.3
	% Fixture	85.6	0.0	85.6
Total	Lumens	2769.4	0.0	2769.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	2.1
10°-20°	162.8	5.9
20°-30°	265.1	9.6
30°-40°	396.3	14.3
40°-50°	582.4	21.0
50°-60°	682.6	24.6
60°-70°	450.1	16.3
70°-80°	143.3	5.2
80°-90°	29.1	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°	2769.4	100.0
0°-180°	2769.4	100.0

Coefficient of Utilization



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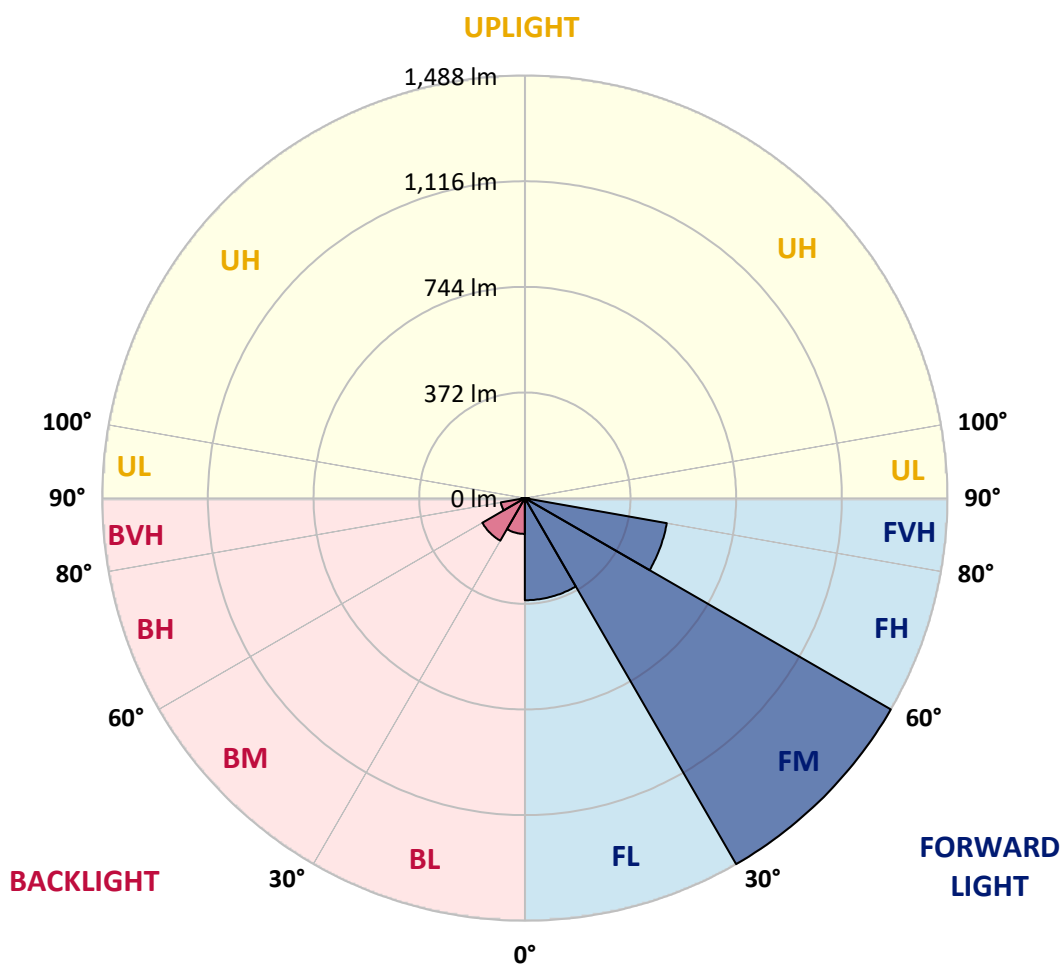
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.4	13.0			
FM	(30°-60°)	1488.3	53.7			
FH	(60°-80°)	507.5	18.3			G0/660
FVH	(80°-90°)	16.0	0.6			G1/100
BL	(0°-30°)	126.0	4.6	B1/500		
BM	(30°-60°)	173.0	6.2	B0/220		
BH	(60°-80°)	85.9	3.1	B0/110		G0/110
BVH	(80°-90°)	13.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2
2.5°	714.7	712.1	712.1	705.5	695.7	682.0	665.8	661.7	655.5	639.7	619.2
5°	823.7	820.9	817.1	805.5	787.2	759.9	725.6	719.4	697.1	664.4	627.4
7.5°	895.8	894.2	893.0	882.9	864.9	838.0	792.0	785.0	747.3	693.1	635.3
10°	888.4	893.2	901.6	908.6	912.2	898.4	855.2	847.0	800.2	726.4	646.9
12.5°	818.7	825.5	841.2	869.9	903.0	929.7	905.2	900.6	856.8	761.7	661.5
15°	766.9	769.7	777.4	798.6	848.0	919.3	943.9	939.7	909.6	807.1	678.4
17.5°	750.9	752.1	753.9	760.9	794.6	878.5	959.8	963.8	960.8	854.2	697.5
20°	758.9	759.7	759.9	761.1	777.2	844.4	955.6	962.4	1005.8	901.4	716.3
22.5°	789.8	788.8	787.4	782.8	791.8	838.4	944.4	955.2	1040.5	944.4	733.8
25°	843.8	842.4	832.6	822.9	826.7	860.1	938.3	950.0	1067.6	984.9	746.6
27.5°	908.0	906.6	896.6	878.3	874.3	896.2	952.4	959.6	1087.5	1020.8	752.3
30°	974.7	974.7	962.2	941.1	928.3	937.5	978.3	984.1	1102.5	1055.5	755.9
32.5°	1047.3	1049.3	1030.1	1006.0	991.7	986.3	1014.6	1019.6	1124.4	1096.5	763.5
35°	1140.6	1136.2	1112.7	1081.0	1058.2	1045.9	1059.6	1065.4	1156.5	1147.5	775.8
37.5°	1245.6	1237.8	1208.9	1171.0	1131.0	1110.5	1119.6	1121.0	1204.1	1213.9	798.0
40°	1332.3	1330.9	1306.4	1270.5	1220.1	1192.6	1188.2	1189.0	1270.1	1292.6	831.8
42.5°	1405.4	1400.2	1395.8	1383.1	1329.7	1284.6	1266.5	1266.7	1341.8	1373.9	865.7
45°	1437.7	1436.7	1449.7	1482.3	1443.9	1390.7	1365.0	1368.7	1423.9	1457.4	898.4
47.5°	1423.9	1424.7	1459.6	1544.9	1567.6	1526.8	1481.3	1479.0	1503.3	1521.4	927.3
50°	1300.2	1313.3	1407.8	1550.7	1648.6	1668.9	1617.5	1609.3	1573.0	1572.4	945.0
52.5°	1206.9	1206.3	1264.3	1491.5	1677.4	1797.2	1751.0	1732.5	1630.6	1601.1	946.4
55°	1080.8	1080.0	1123.2	1318.3	1620.3	1886.7	1876.9	1853.8	1683.4	1610.5	936.7
57.5°	818.5	833.8	876.7	1055.3	1439.7	1872.4	1997.1	1977.8	1735.0	1606.3	934.9
60°	445.4	443.6	505.8	687.8	1102.3	1710.7	2049.5	2048.5	1789.7	1604.7	946.0
62.5°	205.3	203.3	215.8	306.3	632.0	1370.5	1948.3	1962.8	1840.5	1590.0	945.0
65°	153.5	148.3	131.5	142.5	241.9	818.1	1654.9	1693.4	1762.3	1529.8	901.2
67.5°	136.9	131.9	112.2	105.2	121.4	288.6	1200.5	1236.0	1473.6	1417.0	830.3
70°	125.4	121.0	101.4	90.3	91.1	127.9	628.4	698.3	1080.0	1182.6	707.7
72.5°	114.4	110.6	92.7	79.5	76.7	84.5	214.2	258.3	671.8	861.9	527.7
75°	102.8	99.2	83.5	71.3	65.8	62.6	102.0	109.8	355.3	475.9	283.2
77.5°	89.3	87.3	74.5	62.8	58.2	47.4	67.8	71.3	152.1	186.9	134.9
80°	77.7	76.1	66.4	57.0	52.2	36.5	46.8	49.2	75.1	93.3	75.5
82.5°	50.6	54.6	55.0	49.0	46.0	29.3	30.9	32.7	49.8	55.0	32.9
85°	20.9	25.3	37.9	33.7	31.9	24.9	20.5	20.9	30.5	32.1	11.8
87.5°	9.4	10.4	18.7	18.9	16.5	9.4	10.2	11.2	15.7	15.5	5.2
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°	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2
2.5°	613.6	604.3	587.9	566.8	551.8	540.7	528.7	519.8	510.0	501.4	502.8
5°	612.2	594.3	557.4	518.2	480.1	448.8	422.7	403.4	383.6	375.7	374.7
7.5°	613.4	583.1	522.5	458.4	400.4	360.5	330.2	311.9	300.5	293.8	294.2
10°	613.0	572.4	484.7	396.4	333.0	296.5	278.0	272.0	271.0	271.8	273.0
12.5°	613.6	558.0	442.4	340.6	284.6	265.9	266.7	272.2	275.6	277.8	279.2
15°	616.2	546.1	399.0	296.7	259.3	259.9	268.6	277.0	282.0	284.4	285.6
17.5°	620.0	531.3	360.5	263.3	248.7	257.9	269.2	278.2	282.0	283.4	284.4
20°	620.4	514.2	321.5	240.5	241.7	253.7	263.5	270.8	275.6	277.2	278.0
22.5°	618.6	491.1	281.6	223.8	233.6	245.7	254.1	262.3	255.9	250.7	249.3
25°	611.0	462.0	247.5	210.1	223.6	234.8	244.5	235.4	232.4	228.4	228.8
27.5°	594.5	425.7	215.4	197.3	211.8	227.8	220.8	219.6	215.8	211.8	211.8
30°	572.8	387.4	188.5	183.9	197.5	205.5	207.1	205.3	203.1	197.9	198.3
32.5°	553.4	346.8	169.4	172.6	188.5	188.5	195.5	195.5	187.5	172.8	172.8
35°	534.1	308.7	155.4	163.2	173.6	177.0	186.7	174.0	162.6	156.0	155.6
37.5°	519.0	276.2	146.1	155.2	159.2	167.8	168.0	158.8	154.9	148.9	148.3
40°	510.2	248.9	140.5	151.1	151.5	159.6	146.3	148.9	148.1	143.5	142.9
42.5°	505.4	227.8	136.3	147.7	145.7	137.9	135.5	139.9	141.3	138.9	137.9
45°	501.6	211.3	132.9	135.9	141.1	126.9	125.8	129.3	132.3	132.1	131.3
47.5°	499.6	199.9	129.9	128.5	129.5	120.2	118.2	119.8	123.6	126.0	125.8
50°	491.7	191.1	125.4	120.8	114.4	114.4	113.4	113.4	118.0	122.8	123.2
52.5°	477.9	180.6	119.0	113.6	106.2	109.4	109.8	109.0	113.8	119.0	119.4
55°	462.6	172.8	110.4	107.0	99.4	104.8	106.6	105.8	109.0	112.6	112.4
57.5°	462.8	172.6	103.0	100.4	92.9	99.0	103.4	103.6	103.4	106.0	106.0
60°	474.5	176.6	97.1	91.5	85.5	92.7	100.0	100.0	98.5	102.4	102.8
62.5°	477.9	176.2	93.5	83.1	78.9	87.1	94.9	96.1	95.1	100.6	101.2
65°	447.8	166.8	89.9	75.5	72.9	80.9	88.7	92.1	91.1	98.1	99.0
67.5°	406.0	154.5	84.3	68.6	66.6	74.9	82.3	85.9	85.7	94.9	95.3
70°	350.0	139.5	77.3	61.6	60.6	67.8	74.5	78.3	80.1	90.7	90.5
72.5°	271.2	119.6	66.6	54.2	54.0	60.6	66.4	70.7	74.1	84.3	84.3
75°	174.8	94.1	54.4	47.0	46.2	52.4	58.4	63.2	73.7	89.9	89.7
77.5°	106.8	71.9	43.8	39.1	38.9	44.6	50.6	58.8	80.5	80.1	77.9
80°	64.0	51.6	34.9	31.3	31.3	36.5	43.2	63.0	66.8	76.3	72.1
82.5°	33.3	31.7	26.1	23.1	24.1	28.7	39.3	50.4	54.6	46.4	42.6
85°	13.6	16.9	16.1	14.7	15.3	19.9	37.9	40.3	32.3	33.9	34.1
87.5°	4.6	7.4	7.4	5.8	6.4	14.0	22.5	13.4	16.3	9.6	7.2
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)