

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: P672033

Luminaire Tested: **CCP-SA-1B-840-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672033
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-840-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ AFL
distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

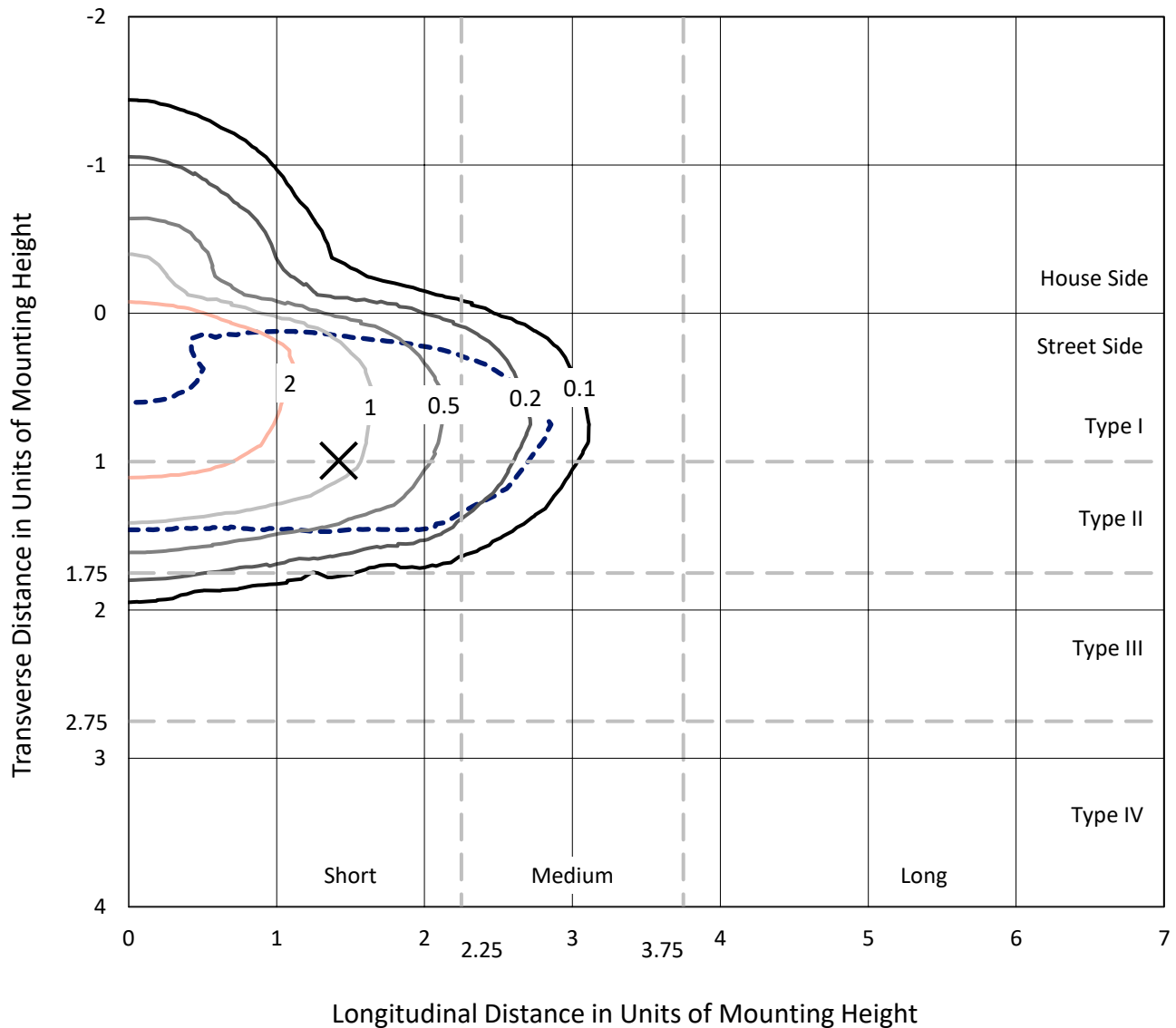
Lumens per Lamp: N/A
Luminaire Lumens: 2971.5 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

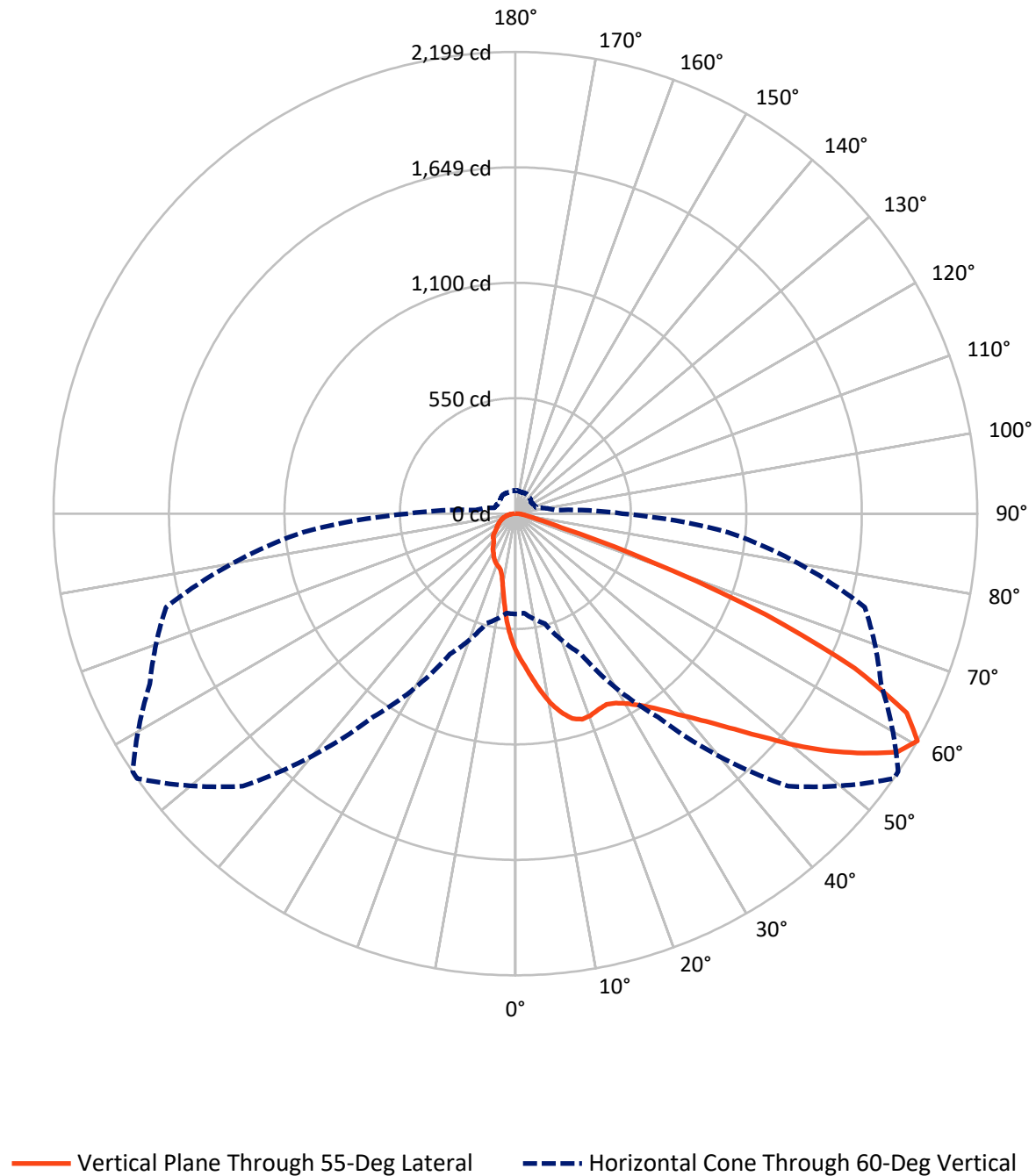


Based on 15 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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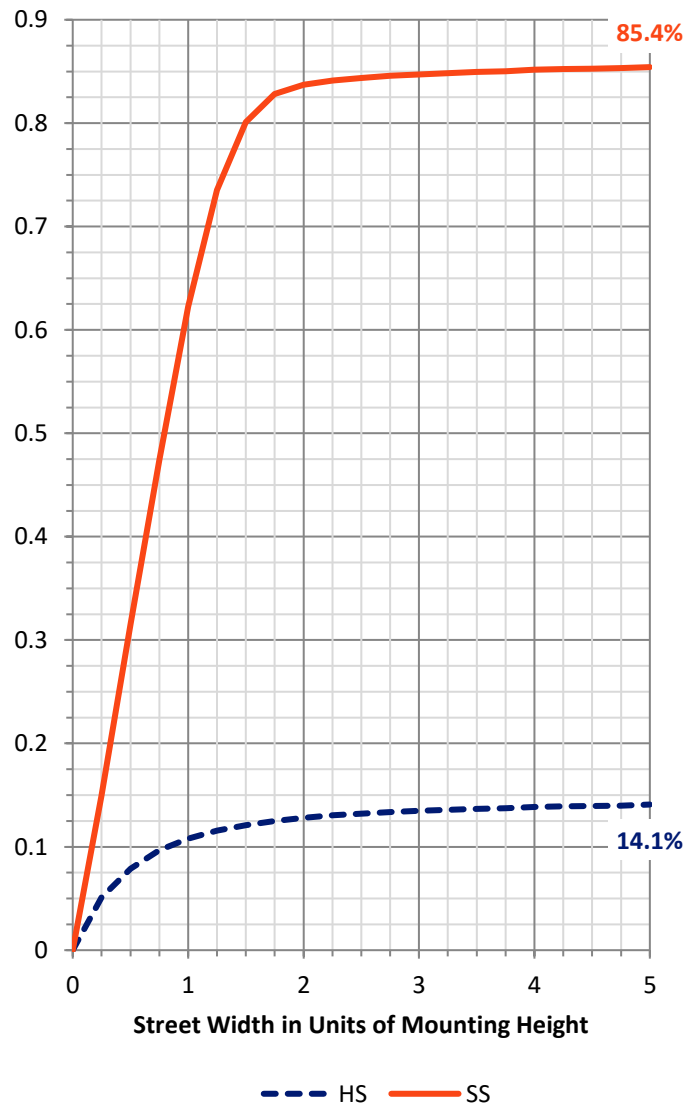
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	427.2	0.0	427.2
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	2544.3	0.0	2544.3
	% Fixture	85.6	0.0	85.6
Total	Lumens	2971.5	0.0	2971.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	2.1
10°-20°	174.7	5.9
20°-30°	284.5	9.6
30°-40°	425.2	14.3
40°-50°	624.9	21.0
50°-60°	732.5	24.6
60°-70°	483.0	16.3
70°-80°	153.8	5.2
80°-90°	31.3	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°	2971.5	100.0
0°-180°	2971.5	100.0

Coefficient of Utilization



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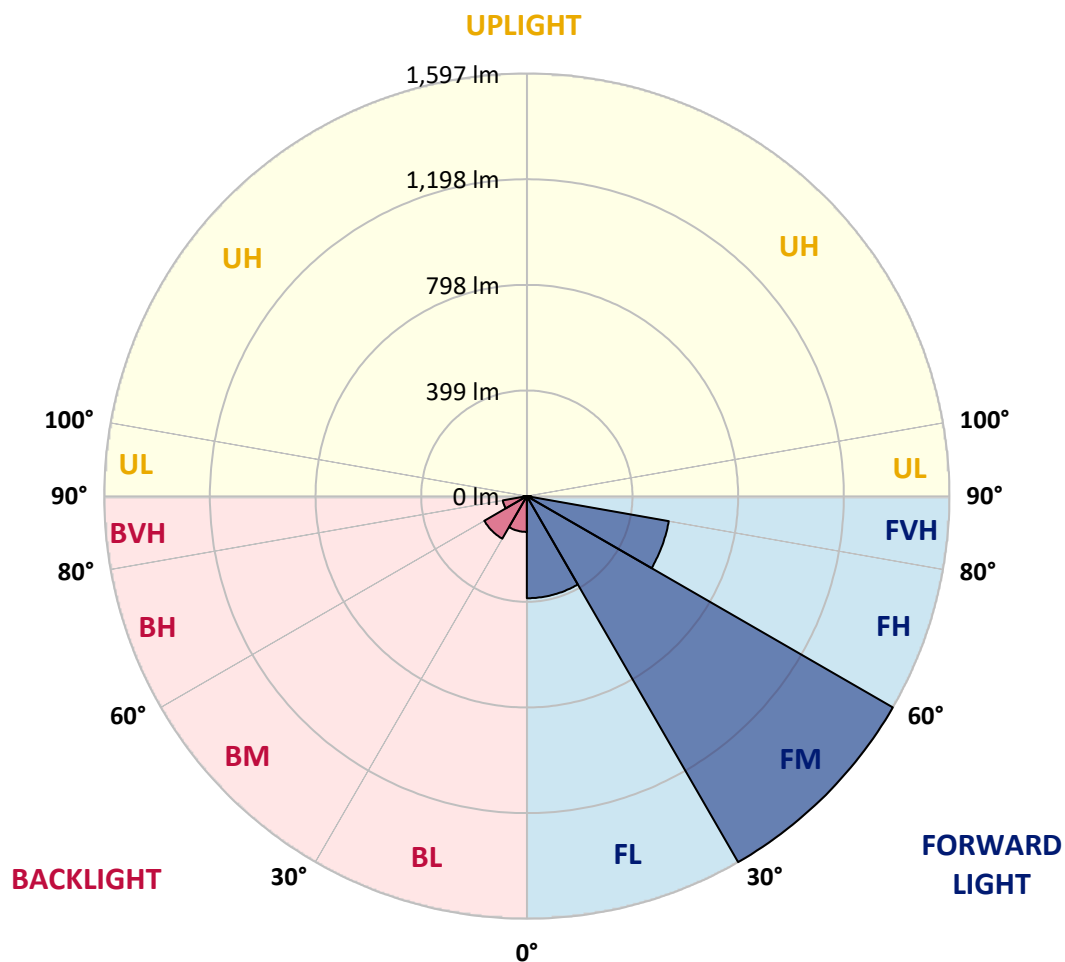
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.7	13.0			
FM	(30°-60°)	1597.0	53.7			
FH	(60°-80°)	544.6	18.3			G0/660
FVH	(80°-90°)	17.1	0.6			G1/100
BL	(0°-30°)	135.2	4.6	B1/500		
BM	(30°-60°)	185.7	6.2	B0/220		
BH	(60°-80°)	92.2	3.1	B0/110		G0/110
BVH	(80°-90°)	14.1	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°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	766.9	764.1	764.1	757.0	746.4	731.8	714.4	710.1	703.4	686.4	664.4
5°	883.8	880.8	876.7	864.2	844.7	815.4	778.5	771.9	748.0	712.9	673.2
7.5°	961.2	959.4	958.1	947.4	928.0	899.1	849.8	842.3	801.8	743.6	681.6
10°	953.2	958.4	967.4	974.9	978.8	964.0	917.7	908.8	858.7	779.4	694.1
12.5°	878.5	885.8	902.6	933.4	968.9	997.6	971.3	966.3	919.4	817.3	709.8
15°	822.9	825.9	834.1	856.9	909.9	986.4	1012.9	1008.3	976.0	866.0	727.9
17.5°	805.7	807.0	808.9	816.4	852.6	942.6	1029.9	1034.2	1030.9	916.6	748.4
20°	814.3	815.1	815.4	816.7	833.9	906.0	1025.3	1032.7	1079.2	967.2	768.6
22.5°	847.5	846.4	844.9	839.9	849.6	899.6	1013.3	1024.9	1116.4	1013.3	787.4
25°	905.4	903.9	893.3	883.0	887.1	922.8	1006.8	1019.3	1145.5	1056.8	801.1
27.5°	974.3	972.8	962.0	942.4	938.1	961.6	1021.9	1029.6	1166.8	1095.3	807.2
30°	1045.8	1045.8	1032.4	1009.8	996.1	1006.0	1049.7	1055.9	1183.0	1132.6	811.1
32.5°	1123.8	1125.9	1105.2	1079.4	1064.1	1058.3	1088.7	1094.0	1206.5	1176.5	819.2
35°	1223.9	1219.2	1194.0	1159.9	1135.4	1122.3	1136.9	1143.1	1240.9	1231.2	832.4
37.5°	1336.5	1328.1	1297.1	1256.4	1213.6	1191.6	1201.3	1202.8	1292.0	1302.5	856.3
40°	1429.6	1428.1	1401.8	1363.2	1309.2	1279.7	1274.9	1275.8	1362.8	1386.9	892.5
42.5°	1508.0	1502.4	1497.6	1484.1	1426.8	1378.3	1358.9	1359.2	1439.7	1474.2	928.9
45°	1542.6	1541.6	1555.6	1590.5	1549.3	1492.2	1464.7	1468.6	1527.8	1563.7	964.0
47.5°	1527.8	1528.6	1566.1	1657.6	1682.0	1638.3	1589.4	1587.0	1613.1	1632.4	995.0
50°	1395.1	1409.1	1510.6	1663.9	1769.0	1790.7	1735.6	1726.8	1687.8	1687.2	1013.9
52.5°	1295.0	1294.3	1356.6	1600.4	1799.8	1928.4	1878.8	1859.0	1749.6	1717.9	1015.4
55°	1159.7	1158.9	1205.2	1414.5	1738.6	2024.4	2013.9	1989.1	1806.2	1728.1	1005.1
57.5°	878.2	894.6	940.7	1132.4	1544.8	2009.1	2142.9	2122.2	1861.6	1723.5	1003.2
60°	477.9	476.0	542.7	738.0	1182.8	1835.5	2199.1	2198.0	1920.4	1721.8	1015.0
62.5°	220.3	218.2	231.5	328.6	678.2	1470.5	2090.5	2106.0	1974.9	1706.1	1013.9
65°	164.8	159.2	141.1	152.9	259.5	877.8	1775.7	1817.0	1890.9	1641.5	967.0
67.5°	146.9	141.5	120.4	112.8	130.3	309.7	1288.1	1326.2	1581.2	1520.5	891.0
70°	134.6	129.9	108.8	96.9	97.8	137.2	674.3	749.2	1158.9	1268.9	759.4
72.5°	122.8	118.7	99.5	85.3	82.3	90.7	229.8	277.2	720.8	924.8	566.2
75°	110.3	106.4	89.6	76.5	70.6	67.2	109.4	117.8	381.2	510.6	303.9
77.5°	95.8	93.7	79.9	67.4	62.5	50.8	72.8	76.5	163.2	200.5	144.7
80°	83.3	81.6	71.3	61.2	56.0	39.2	50.2	52.8	80.5	100.1	81.0
82.5°	54.3	58.6	59.0	52.5	49.3	31.4	33.2	35.1	53.4	59.0	35.3
85°	22.4	27.1	40.7	36.2	34.2	26.7	22.0	22.4	32.7	34.5	12.7
87.5°	10.1	11.2	20.0	20.2	17.7	10.1	11.0	12.1	16.8	16.6	5.6
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°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	658.4	648.5	630.8	608.2	592.0	580.2	567.3	557.8	547.2	538.0	539.5
5°	656.9	637.7	598.1	556.1	515.1	481.6	453.6	432.9	411.6	403.2	402.1
7.5°	658.1	625.6	560.6	491.9	429.6	386.8	354.3	334.7	322.4	315.3	315.7
10°	657.7	614.2	520.1	425.3	357.3	318.1	298.3	291.8	290.7	291.6	292.9
12.5°	658.4	598.7	474.7	365.5	305.4	285.4	286.2	292.0	295.7	298.1	299.6
15°	661.2	586.0	428.1	318.3	278.2	278.9	288.2	297.2	302.6	305.2	306.5
17.5°	665.3	570.1	386.8	282.6	266.8	276.7	288.8	298.5	302.6	304.1	305.2
20°	665.7	551.8	345.0	258.0	259.3	272.2	282.8	290.5	295.7	297.4	298.3
22.5°	663.7	527.0	302.2	240.1	250.7	263.6	272.6	281.5	274.6	269.0	267.5
25°	655.6	495.8	265.5	225.5	239.9	252.0	262.3	252.6	249.4	245.1	245.5
27.5°	637.9	456.8	231.1	211.7	227.2	244.4	236.9	235.6	231.5	227.2	227.2
30°	614.6	415.6	202.2	197.3	211.9	220.5	222.3	220.3	217.9	212.3	212.8
32.5°	593.8	372.1	181.8	185.2	202.2	202.2	209.8	209.8	201.1	185.4	185.4
35°	573.1	331.2	166.7	175.1	186.3	189.9	200.3	186.7	174.4	167.3	166.9
37.5°	556.9	296.3	156.8	166.5	170.8	180.0	180.3	170.4	166.3	159.8	159.2
40°	547.5	267.0	150.8	162.2	162.6	171.2	157.0	159.8	158.9	154.0	153.3
42.5°	542.3	244.4	146.2	158.5	156.4	148.0	145.4	150.1	151.6	149.0	148.0
45°	538.2	226.8	142.6	145.8	151.4	136.1	135.0	138.7	141.9	141.7	140.8
47.5°	536.0	214.5	139.3	137.8	138.9	129.0	126.8	128.6	132.7	135.2	135.0
50°	527.6	205.0	134.6	129.6	122.8	122.8	121.7	121.7	126.6	131.8	132.2
52.5°	512.8	193.8	127.7	121.9	113.9	117.4	117.8	116.9	122.1	127.7	128.1
55°	496.4	185.4	118.4	114.8	106.6	112.4	114.4	113.5	116.9	120.8	120.6
57.5°	496.6	185.2	110.5	107.7	99.7	106.2	110.9	111.1	110.9	113.7	113.7
60°	509.1	189.5	104.2	98.2	91.7	99.5	107.3	107.3	105.7	109.8	110.3
62.5°	512.8	189.1	100.4	89.2	84.6	93.5	101.9	103.2	102.1	107.9	108.5
65°	480.5	179.0	96.5	81.0	78.2	86.8	95.2	98.9	97.8	105.3	106.2
67.5°	435.7	165.8	90.5	73.7	71.5	80.3	88.3	92.2	92.0	101.9	102.3
70°	375.6	149.7	82.9	66.1	65.0	72.8	79.9	84.0	85.9	97.3	97.1
72.5°	291.0	128.4	71.5	58.1	57.9	65.0	71.3	75.8	79.5	90.5	90.5
75°	187.6	101.0	58.4	50.4	49.5	56.2	62.7	67.8	79.0	96.5	96.3
77.5°	114.6	77.1	46.9	42.0	41.8	47.8	54.3	63.1	86.4	85.9	83.6
80°	68.7	55.3	37.5	33.6	33.6	39.2	46.3	67.6	71.7	81.8	77.3
82.5°	35.8	34.0	28.0	24.8	25.8	30.8	42.2	54.1	58.6	49.7	45.7
85°	14.6	18.1	17.2	15.7	16.4	21.3	40.7	43.3	34.7	36.4	36.6
87.5°	5.0	8.0	8.0	6.2	6.9	15.1	24.1	14.4	17.4	10.3	7.8
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)