

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: P675710

Luminaire Tested: **CCW-SA-1B-750-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675710
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-750-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

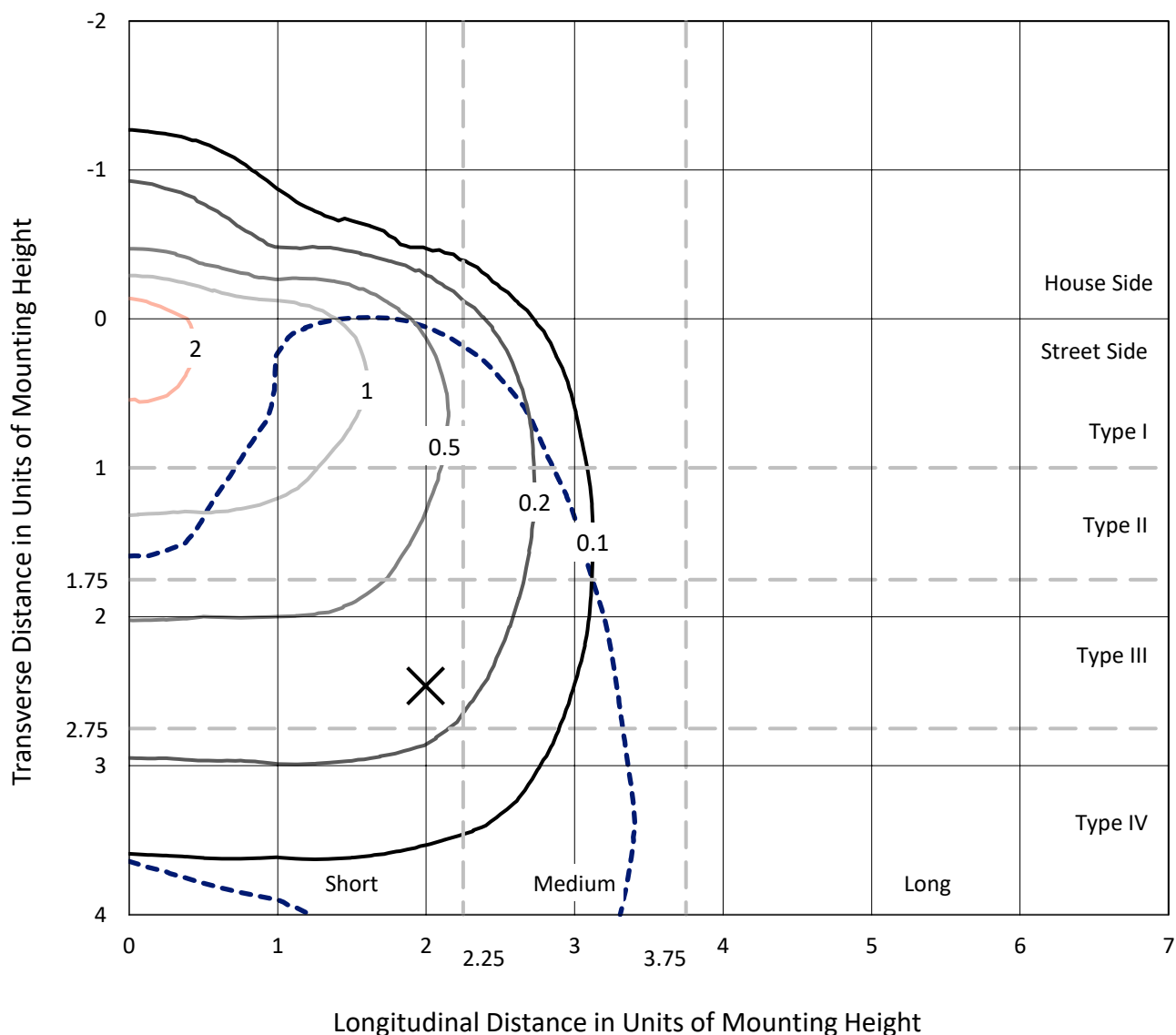
Lumens per Lamp: N/A
Luminaire Lumens: 3461.7 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

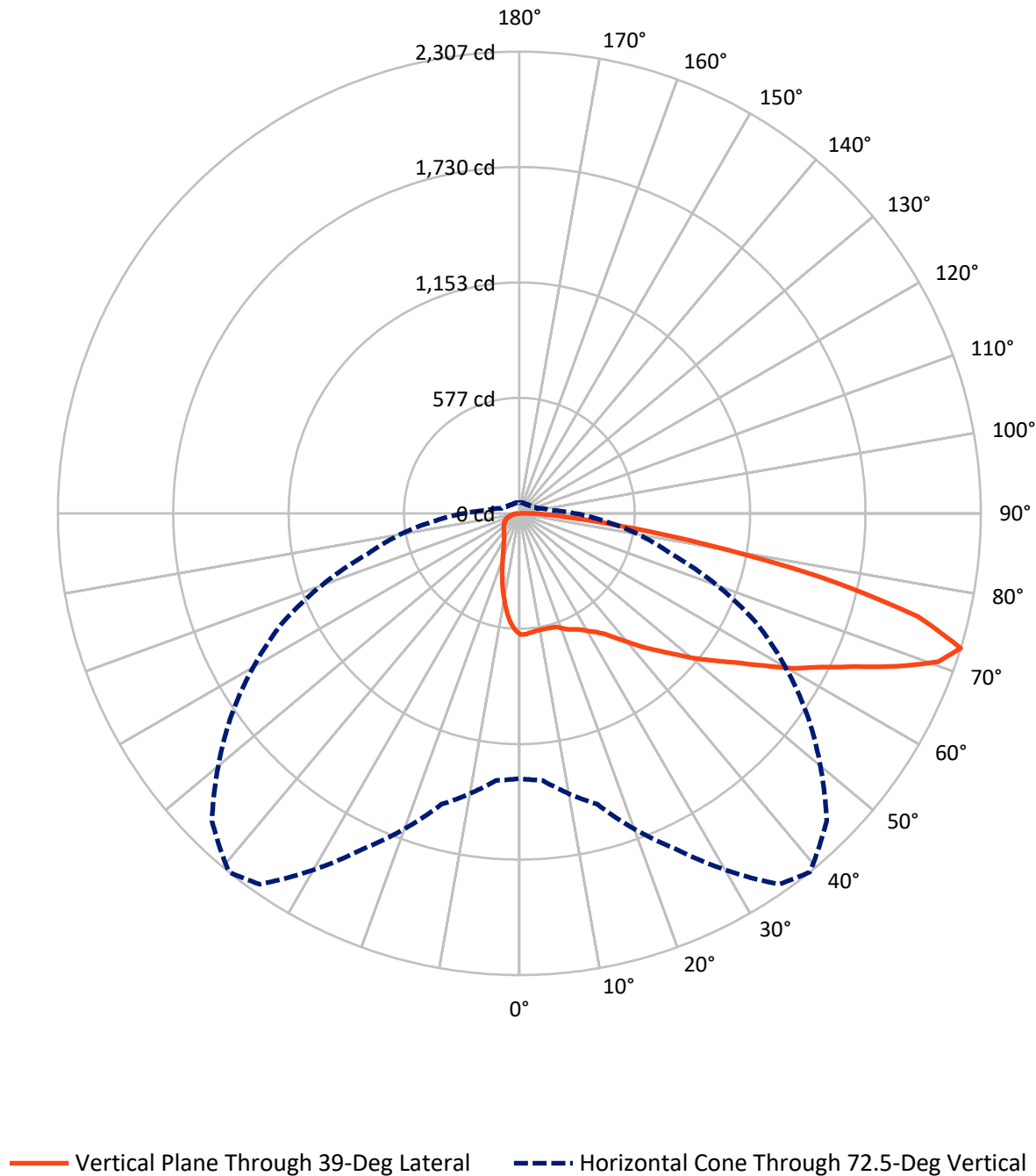
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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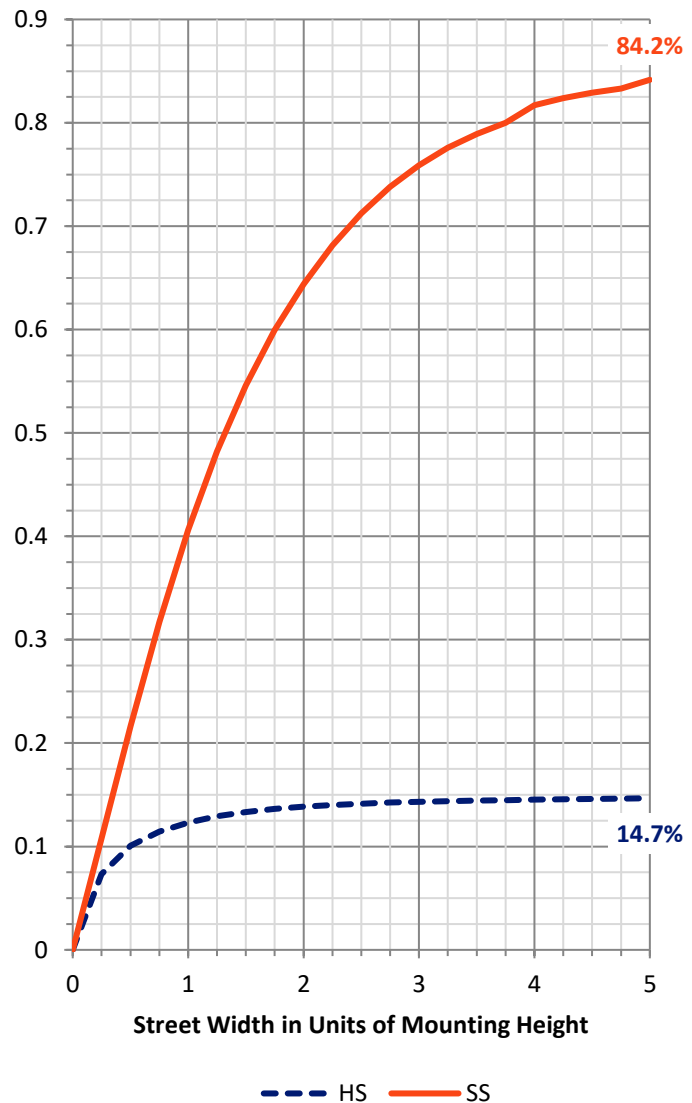
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	514.4	0.0	514.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2947.3	0.0	2947.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	3461.7	0.0	3461.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.5
10°-20°	136.7	3.9
20°-30°	208.2	6.0
30°-40°	304.6	8.8
40°-50°	466.3	13.5
50°-60°	683.9	19.8
60°-70°	872.2	25.2
70°-80°	630.1	18.2
80°-90°	106.3	3.1
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°	3461.7	100.0
0°-180°	3461.7	100.0

Coefficient of Utilization



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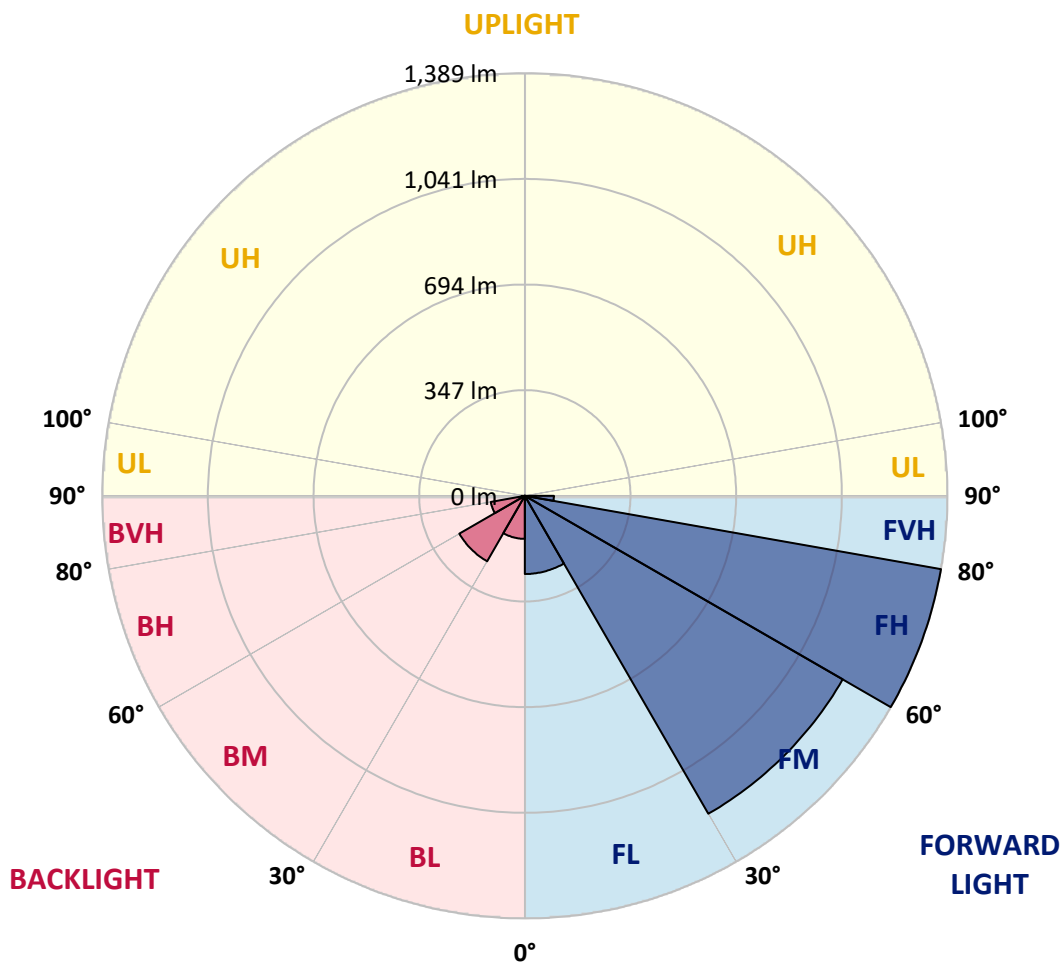
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.9	7.4			
FM	(30°-60°)	1206.2	34.8			
FH	(60°-80°)	1388.7	40.1			G1/1800
FVH	(80°-90°)	95.5	2.8			G1/100
BL	(0°-30°)	141.5	4.1	B1/500		
BM	(30°-60°)	248.5	7.2	B1/1000		
BH	(60°-80°)	113.7	3.3	B1/500		G1/500
BVH	(80°-90°)	10.8	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
2.5°	615.1	616.4	613.8	611.2	609.9	604.7	609.9	607.3	604.7	604.7	604.7
5°	607.3	608.6	608.6	606.0	607.3	598.2	596.9	598.2	594.3	591.7	590.4
7.5°	595.6	598.2	603.4	602.1	596.9	593.0	594.3	593.0	586.5	582.6	572.2
10°	586.5	589.1	591.7	594.3	593.0	591.7	590.4	585.2	583.9	574.8	564.3
12.5°	577.4	577.4	578.7	589.1	590.4	590.4	582.6	582.6	578.7	577.4	561.7
15°	568.3	572.2	582.6	585.2	590.4	593.0	589.1	589.1	582.6	573.5	561.7
17.5°	570.9	577.4	587.8	594.3	596.9	596.9	602.1	598.2	589.1	583.9	572.2
20°	583.9	585.2	598.2	609.9	612.5	612.5	607.3	603.4	596.9	587.8	572.2
22.5°	591.7	600.8	616.4	622.9	630.7	630.7	624.2	615.1	606.0	596.9	580.0
25°	625.5	626.8	633.3	643.7	647.6	642.4	635.9	625.5	613.8	604.7	589.1
27.5°	648.9	655.4	663.2	668.4	661.9	658.0	652.8	641.1	632.0	624.2	602.1
30°	691.8	684.0	689.2	691.8	680.1	682.7	668.4	658.0	647.6	647.6	622.9
32.5°	717.8	724.3	719.1	717.8	708.7	707.4	698.3	686.6	680.1	687.9	654.1
35°	763.3	759.4	759.4	758.1	747.7	741.2	741.2	720.4	726.9	743.8	702.2
37.5°	786.7	785.4	793.2	799.7	789.3	793.2	789.3	780.2	782.8	812.7	762.0
40°	810.1	819.2	834.8	837.4	843.9	849.1	846.5	845.2	855.6	903.7	842.6
42.5°	832.2	840.0	863.4	884.2	899.8	916.7	918.0	918.0	951.9	1020.8	940.1
45°	860.8	867.3	899.8	941.4	967.5	979.2	989.6	1001.3	1046.8	1128.7	1044.2
47.5°	899.8	905.0	944.1	996.1	1046.8	1053.3	1074.1	1087.1	1156.0	1239.2	1150.8
50°	955.8	951.9	983.1	1058.5	1107.9	1139.1	1169.0	1192.4	1260.0	1351.1	1234.0
52.5°	1001.3	1001.3	1024.7	1124.8	1192.4	1222.3	1253.5	1286.0	1364.1	1462.9	1301.6
55°	1079.3	1071.5	1085.8	1189.8	1287.3	1315.9	1375.8	1403.1	1478.5	1546.1	1358.9
57.5°	1132.6	1136.5	1153.4	1275.6	1399.2	1434.3	1494.1	1513.6	1579.9	1633.2	1400.5
60°	1202.8	1189.8	1226.2	1370.6	1522.7	1572.1	1621.5	1633.2	1682.6	1689.1	1420.0
62.5°	1270.4	1267.8	1299.0	1465.5	1655.3	1690.4	1741.2	1754.2	1775.0	1733.4	1392.7
65°	1312.0	1329.0	1387.5	1569.5	1806.2	1845.2	1895.9	1869.9	1846.5	1694.3	1258.7
67.5°	1369.3	1377.1	1466.8	1682.6	1980.4	2038.9	2083.2	1980.4	1806.2	1534.4	1059.8
70°	1382.3	1403.1	1520.1	1801.0	2159.9	2219.7	2222.3	1942.7	1659.2	1248.3	768.5
72.5°	1325.1	1339.4	1504.5	1850.4	2262.6	2306.8	2172.9	1756.8	1314.6	786.7	418.7
75°	1114.4	1154.7	1309.4	1698.3	2074.0	2057.1	1841.3	1340.7	789.3	348.5	176.8
77.5°	776.3	777.6	938.8	1235.3	1552.6	1548.7	1313.3	777.6	338.1	140.4	104.0
80°	344.6	369.3	466.8	665.8	942.7	942.7	765.9	386.2	169.0	91.0	71.5
82.5°	202.9	210.7	249.7	310.8	459.0	483.7	366.7	257.5	115.7	57.2	44.2
85°	149.5	162.5	185.9	187.2	217.2	221.1	202.9	223.7	79.3	31.2	36.4
87.5°	111.8	119.6	148.2	123.5	115.7	109.2	124.8	228.9	29.9	15.6	11.7
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°	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0	606.0
2.5°	599.5	599.5	596.9	591.7	591.7	581.3	583.9	586.5	580.0	580.0	581.3
5°	590.4	585.2	578.7	570.9	565.6	551.3	548.7	539.6	538.3	535.7	531.8
7.5°	572.2	564.3	552.6	540.9	524.0	511.0	495.4	482.4	477.2	473.3	472.0
10°	555.2	553.9	534.4	511.0	485.0	460.3	436.9	420.0	409.6	403.1	401.8
12.5°	555.2	544.8	517.5	485.0	447.3	410.9	381.0	357.6	343.3	332.9	329.0
15°	552.6	542.2	505.8	456.4	413.5	364.1	322.5	297.8	277.0	266.6	267.9
17.5°	555.2	539.6	488.9	435.6	375.8	322.5	273.1	243.2	222.4	214.6	213.3
20°	556.5	537.0	475.9	407.0	336.8	277.0	230.2	201.6	185.9	180.7	180.7
22.5°	553.9	529.2	456.4	373.2	303.0	239.3	200.3	175.5	165.1	158.6	161.2
25°	565.6	527.9	438.2	344.6	264.0	208.1	178.1	159.9	153.4	149.5	150.8
27.5°	568.3	527.9	423.9	312.1	230.2	184.6	161.2	149.5	144.3	141.7	140.4
30°	578.7	530.5	407.0	279.6	202.9	166.4	148.2	141.7	137.8	136.5	136.5
32.5°	607.3	538.3	388.8	252.3	179.4	150.8	139.1	133.9	131.3	130.0	131.3
35°	641.1	559.1	369.3	223.7	162.5	140.4	131.3	127.4	126.1	126.1	126.1
37.5°	693.1	590.4	352.4	200.3	148.2	130.0	123.5	122.2	120.9	122.2	122.2
40°	752.9	624.2	336.8	182.0	137.8	123.5	117.0	117.0	115.7	117.0	118.3
42.5°	821.8	665.8	321.2	163.8	128.7	118.3	113.1	111.8	110.5	113.1	114.4
45°	916.7	723.0	310.8	153.4	122.2	113.1	107.9	107.9	106.6	106.6	109.2
47.5°	996.1	777.6	310.8	143.0	118.3	109.2	104.0	104.0	101.4	102.7	102.7
50°	1062.4	824.4	317.3	140.4	113.1	105.3	101.4	98.8	97.5	97.5	97.5
52.5°	1106.6	853.0	322.5	137.8	110.5	100.1	97.5	96.2	93.6	92.3	93.6
55°	1150.8	872.5	323.8	137.8	106.6	94.9	92.3	92.3	89.7	88.4	88.4
57.5°	1167.7	864.7	305.6	135.2	104.0	91.0	88.4	87.1	85.8	84.5	84.5
60°	1159.9	836.1	265.3	128.7	101.4	88.4	83.2	83.2	83.2	80.6	81.9
62.5°	1106.6	738.6	213.3	118.3	97.5	83.2	78.0	80.6	80.6	79.3	79.3
65°	966.2	609.9	172.9	109.2	92.3	79.3	74.1	78.0	79.3	78.0	76.7
67.5°	772.4	469.4	143.0	98.8	85.8	72.8	68.9	72.8	74.1	72.8	72.8
70°	530.5	303.0	115.7	88.4	76.7	66.3	62.4	65.0	65.0	66.3	66.3
72.5°	274.4	163.8	94.9	75.4	66.3	59.8	55.9	55.9	54.6	54.6	54.6
75°	136.5	111.8	79.3	63.7	55.9	50.7	48.1	45.5	45.5	45.5	45.5
77.5°	94.9	85.8	65.0	50.7	45.5	41.6	41.6	37.7	37.7	37.7	37.7
80°	71.5	67.6	49.4	39.0	35.1	32.5	32.5	31.2	31.2	29.9	29.9
82.5°	50.7	54.6	37.7	28.6	26.0	24.7	24.7	23.4	23.4	20.8	20.8
85°	40.3	45.5	28.6	20.8	19.5	16.9	16.9	15.6	15.6	14.3	13.0
87.5°	11.7	24.7	11.7	7.8	7.8	7.8	7.8	6.5	6.5	5.2	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

(END OF REPORT)