

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: P670959

Luminaire Tested: **CCP-SA-1B-740-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670959  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-740-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

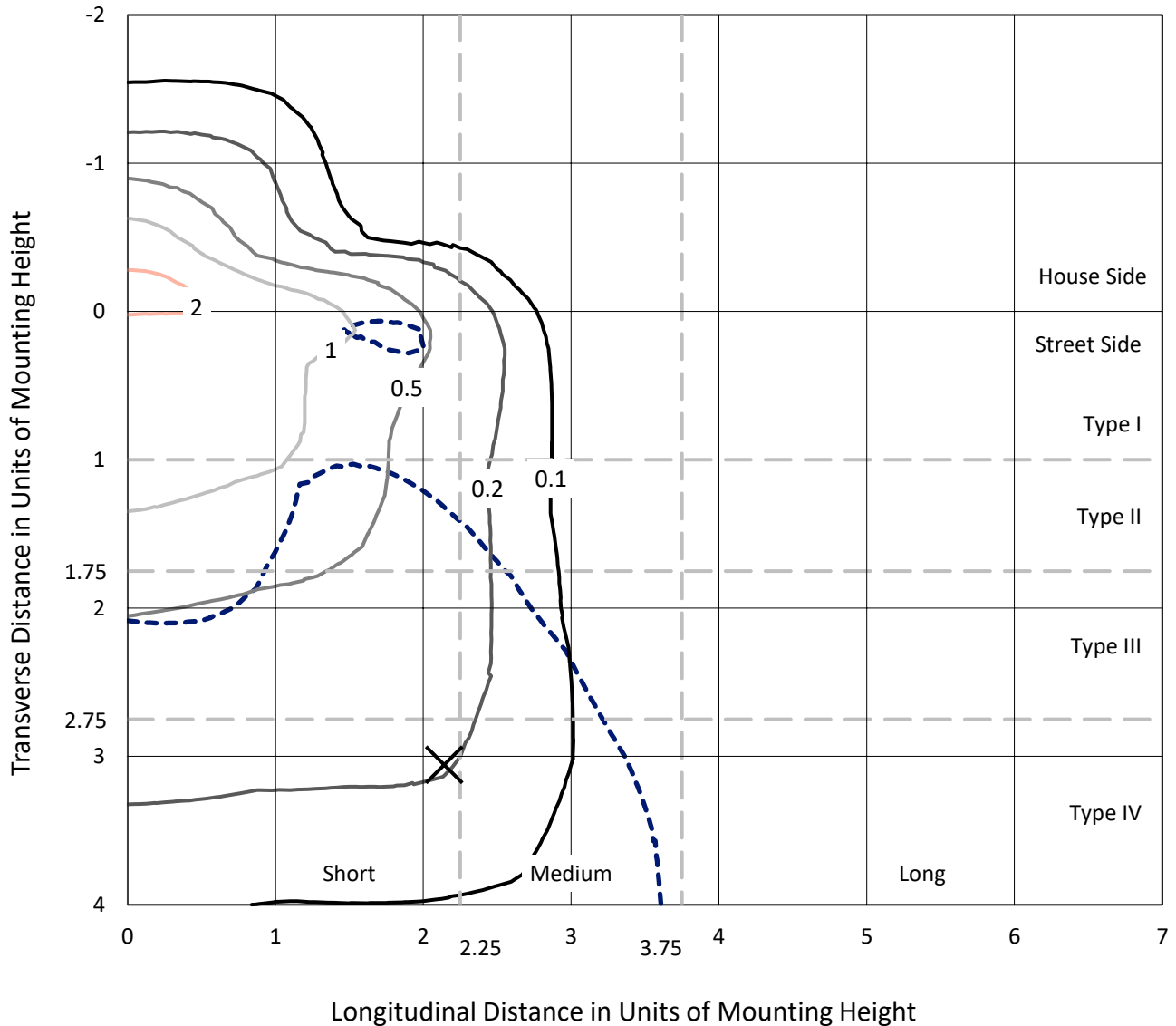
Lumens per Lamp: N/A  
Luminaire Lumens: 3451.5 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

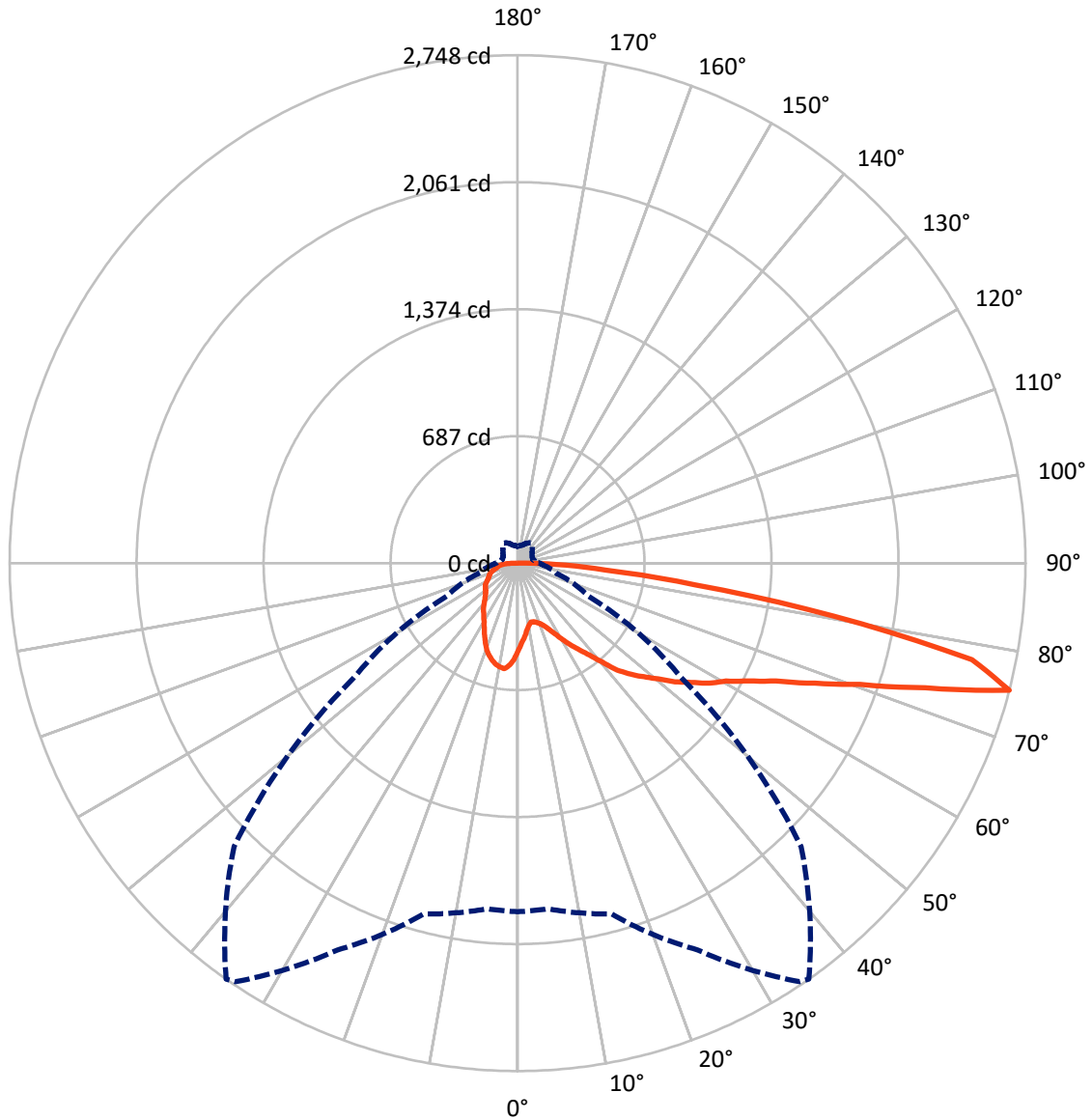
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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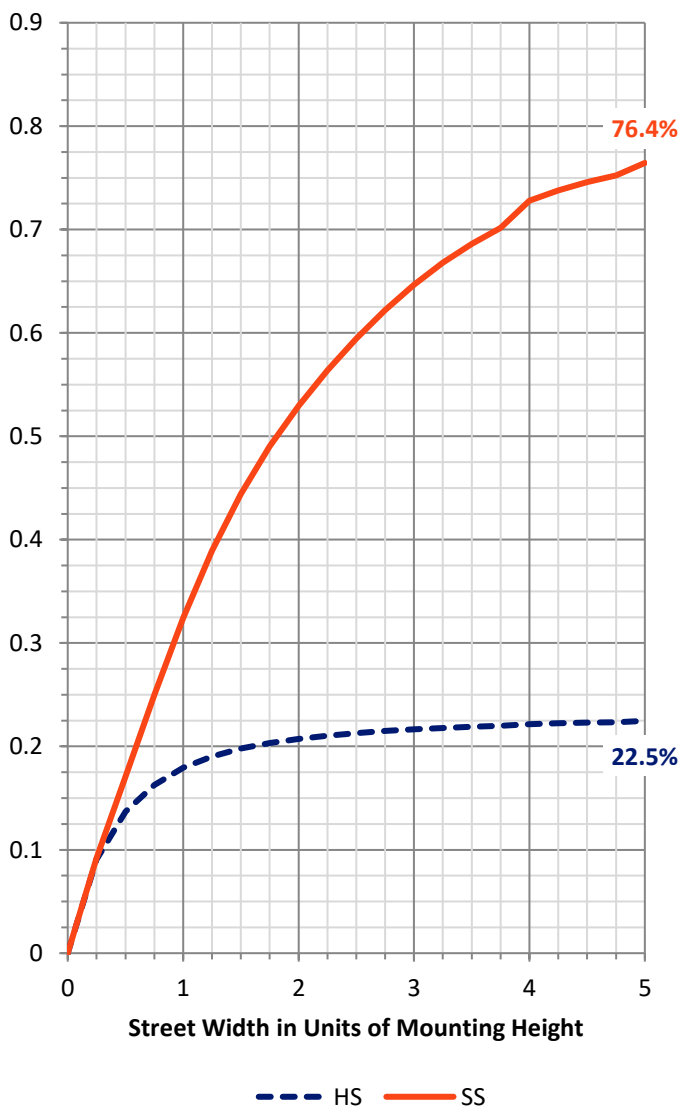
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	793.2	0.0	793.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	2658.2	0.0	2658.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	3451.5	0.0	3451.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.1	1.3
10°-20°	130.8	3.8
20°-30°	217.0	6.3
30°-40°	321.7	9.3
40°-50°	463.8	13.4
50°-60°	637.8	18.5
60°-70°	787.8	22.8
70°-80°	720.7	20.9
80°-90°	126.9	3.7
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°	3451.5	100.0
0°-180°	3451.5	100.0



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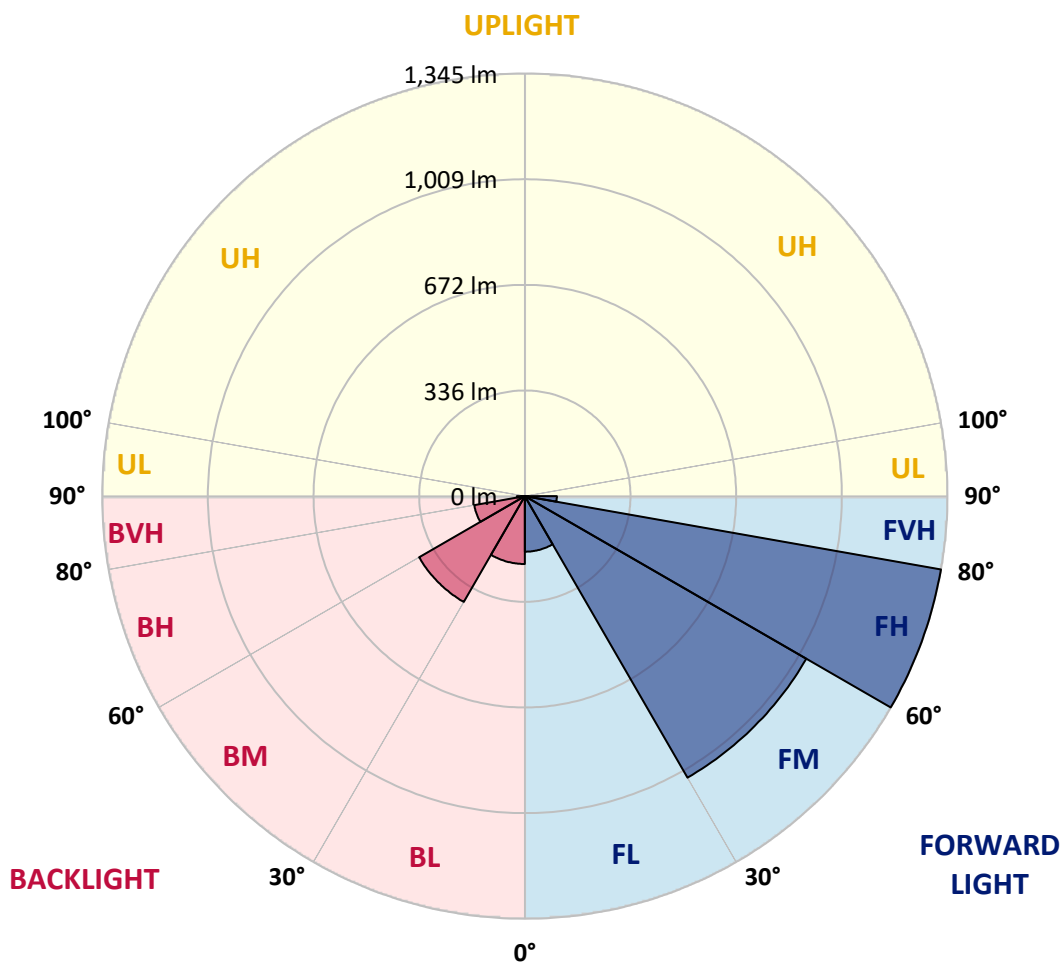
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.9	5.1			
FM (30°-60°)	1034.5	30.0			
FH (60°-80°)	1345.0	39.0			G1/1800
FVH (80°-90°)	101.8	3.0			G2/225
BL (0°-30°)	215.9	6.3	B1/500		
BM (30°-60°)	388.7	11.3	B1/1000		
BH (60°-80°)	163.6	4.7	B1/500		G1/500
BVH (80°-90°)	25.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	428.4	424.6	428.4	430.9	430.9	430.9	434.7	446.2	453.8	458.9	467.8
5°	383.9	385.2	387.7	394.1	397.9	400.4	406.8	420.8	432.2	448.7	467.8
7.5°	344.5	347.0	350.8	357.2	366.1	364.8	378.8	397.9	419.5	441.1	469.1
10°	324.1	329.2	330.5	331.8	340.7	340.7	359.7	381.3	408.0	436.0	469.1
12.5°	328.0	328.0	324.1	322.9	328.0	326.7	343.2	368.6	397.9	437.3	474.1
15°	339.4	339.4	331.8	324.1	331.8	329.2	343.2	363.6	397.9	438.6	484.3
17.5°	354.7	355.9	347.0	334.3	336.9	338.1	348.3	367.4	397.9	441.1	498.3
20°	385.2	378.8	364.8	344.5	353.4	349.6	364.8	381.3	405.5	451.3	518.6
22.5°	411.9	411.9	385.2	367.4	368.6	368.6	382.6	396.6	416.9	465.2	533.9
25°	455.1	452.5	419.5	392.8	395.3	396.6	404.2	420.8	436.0	472.9	553.0
27.5°	509.7	503.4	470.3	439.8	429.7	433.5	437.3	450.0	453.8	485.6	575.8
30°	568.2	559.3	531.3	483.0	478.0	479.2	472.9	480.5	475.4	505.9	598.7
32.5°	605.1	605.1	578.4	542.8	528.8	528.8	507.2	512.3	512.3	525.0	639.4
35°	636.9	634.3	616.5	589.8	580.9	575.8	554.2	561.9	549.1	561.9	696.6
37.5°	685.2	677.5	669.9	652.1	634.3	630.5	619.1	624.1	606.3	600.0	761.4
40°	741.1	737.3	729.6	722.0	704.2	703.0	690.2	695.3	676.3	652.1	826.3
42.5°	823.7	812.3	788.1	781.8	785.6	790.7	785.6	776.7	742.4	711.8	896.2
45°	906.3	888.5	842.8	832.6	861.8	858.0	879.6	875.8	819.9	771.6	969.9
47.5°	959.7	944.5	907.6	901.3	914.0	919.0	983.9	972.4	883.5	826.3	1041.1
50°	997.9	999.1	950.8	967.4	983.9	983.9	1065.2	1064.0	961.0	893.6	1133.9
52.5°	1053.8	1036.0	1015.7	1030.9	1053.8	1066.5	1166.9	1139.0	1009.3	950.8	1238.1
55°	1083.0	1075.4	1057.6	1084.3	1132.6	1139.0	1245.7	1224.1	1064.0	1018.2	1344.9
57.5°	1094.5	1100.8	1130.1	1141.5	1208.9	1225.4	1316.9	1286.4	1114.8	1102.1	1427.5
60°	1145.3	1136.4	1175.8	1221.6	1286.4	1295.3	1405.9	1339.8	1164.4	1156.8	1454.2
62.5°	1248.3	1225.4	1247.0	1301.7	1391.9	1403.4	1500.0	1411.0	1186.0	1193.6	1452.9
65°	1398.3	1381.8	1350.0	1393.2	1520.3	1536.8	1610.6	1472.0	1179.6	1180.9	1350.0
67.5°	1575.0	1548.3	1515.2	1541.9	1697.0	1735.1	1745.3	1498.7	1135.1	1109.7	1098.3
70°	1730.0	1712.3	1690.6	1736.4	1952.5	1966.5	1913.1	1482.2	1011.8	891.1	732.2
72.5°	1875.0	1866.1	1878.8	2050.4	2298.3	2307.2	2070.7	1377.9	799.6	540.2	340.7
75°	1886.4	1877.5	1965.2	2309.7	2731.7	2748.2	2168.6	1080.5	422.0	219.9	143.6
77.5°	1277.5	1304.2	1468.2	2022.4	2509.3	2513.1	1773.3	502.1	174.1	129.7	100.4
80°	314.0	348.3	553.0	1046.2	1691.9	1733.9	971.2	169.1	114.4	99.2	75.0
82.5°	114.4	124.6	225.0	472.9	950.8	967.4	339.4	91.5	82.6	76.3	54.7
85°	54.7	55.9	106.8	232.6	480.5	475.4	122.0	54.7	59.7	52.1	33.1
87.5°	22.9	22.9	47.0	108.0	212.3	205.9	39.4	25.4	34.3	30.5	16.5
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°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	474.1	476.7	486.9	494.5	502.1	508.5	518.6	518.6	525.0	525.0	525.0
5°	472.9	486.9	503.4	521.2	532.6	544.1	554.2	555.5	559.3	564.4	565.7
7.5°	478.0	491.9	518.6	544.1	558.0	563.1	575.8	572.0	572.0	572.0	575.8
10°	488.1	503.4	540.2	563.1	573.3	574.6	570.8	568.2	560.6	558.0	554.2
12.5°	495.8	522.4	559.3	577.1	573.3	569.5	560.6	547.9	539.0	536.4	536.4
15°	514.8	541.5	575.8	582.2	575.8	555.5	544.1	530.1	522.4	511.0	516.1
17.5°	531.3	561.9	592.4	584.7	572.0	540.2	523.7	503.4	493.2	480.5	480.5
20°	553.0	580.9	607.6	587.3	559.3	525.0	498.3	472.9	458.9	446.2	448.7
22.5°	577.1	602.5	616.5	577.1	540.2	500.8	464.0	439.8	422.0	414.4	416.9
25°	596.2	624.1	621.6	560.6	517.4	470.3	429.7	406.8	403.0	395.3	395.3
27.5°	620.3	649.6	617.8	540.2	479.2	422.0	396.6	387.7	387.7	383.9	386.4
30°	652.1	672.4	608.9	511.0	430.9	378.8	366.1	371.2	380.1	376.3	377.5
32.5°	704.2	701.7	601.3	478.0	380.1	336.9	345.8	355.9	363.6	367.4	369.9
35°	755.1	738.5	592.4	433.5	333.0	316.5	324.1	335.6	349.6	353.4	354.7
37.5°	805.9	776.7	577.1	378.8	303.8	298.7	306.3	312.7	324.1	326.7	329.2
40°	859.3	802.1	550.4	325.4	279.7	279.7	284.7	286.0	292.4	296.2	298.7
42.5°	906.3	826.3	502.1	275.8	254.2	263.1	264.4	261.9	256.8	259.3	260.6
45°	963.5	852.9	446.2	240.2	235.2	246.6	249.1	239.0	230.1	225.0	222.5
47.5°	1019.5	880.9	397.9	211.0	217.4	235.2	235.2	223.7	208.5	195.8	190.7
50°	1070.3	908.9	358.5	193.2	199.6	226.3	228.8	207.2	190.7	175.4	172.9
52.5°	1155.5	955.9	317.8	179.2	189.4	219.9	218.6	199.6	178.0	161.4	160.2
55°	1230.5	1002.9	264.4	165.3	179.2	211.0	214.8	191.9	162.7	147.5	144.9
57.5°	1285.1	1014.4	211.0	151.3	169.1	200.8	205.9	176.7	152.5	139.8	138.6
60°	1295.3	969.9	171.6	139.8	155.1	186.9	190.7	167.8	144.9	134.7	132.2
62.5°	1248.3	884.7	146.2	129.7	143.6	172.9	180.5	157.6	137.3	128.4	127.1
65°	1141.5	760.2	128.4	120.8	136.0	162.7	171.6	150.0	130.9	123.3	122.0
67.5°	903.8	583.5	114.4	114.4	125.8	152.5	165.3	144.9	124.6	119.5	118.2
70°	591.1	350.8	104.2	105.5	118.2	143.6	157.6	138.6	116.9	115.7	113.1
72.5°	254.2	161.4	92.8	96.6	106.8	128.4	146.2	129.7	108.0	104.2	100.4
75°	116.9	97.9	83.9	86.4	95.3	113.1	132.2	119.5	100.4	94.1	90.3
77.5°	82.6	71.2	69.9	75.0	81.4	97.9	116.9	111.9	92.8	87.7	85.2
80°	61.0	54.7	58.5	63.6	67.4	90.3	110.6	103.0	85.2	77.5	73.7
82.5°	43.2	40.7	45.8	50.8	54.7	78.8	101.7	90.3	71.2	64.8	58.5
85°	25.4	26.7	31.8	34.3	38.1	58.5	85.2	72.5	54.7	41.9	40.7
87.5°	11.4	11.4	15.3	16.5	19.1	34.3	57.2	45.8	34.3	26.7	25.4
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)