

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: P671185

Luminaire Tested: **CCP-SA-2A-850-U-T4W**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671185
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-850-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4W distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

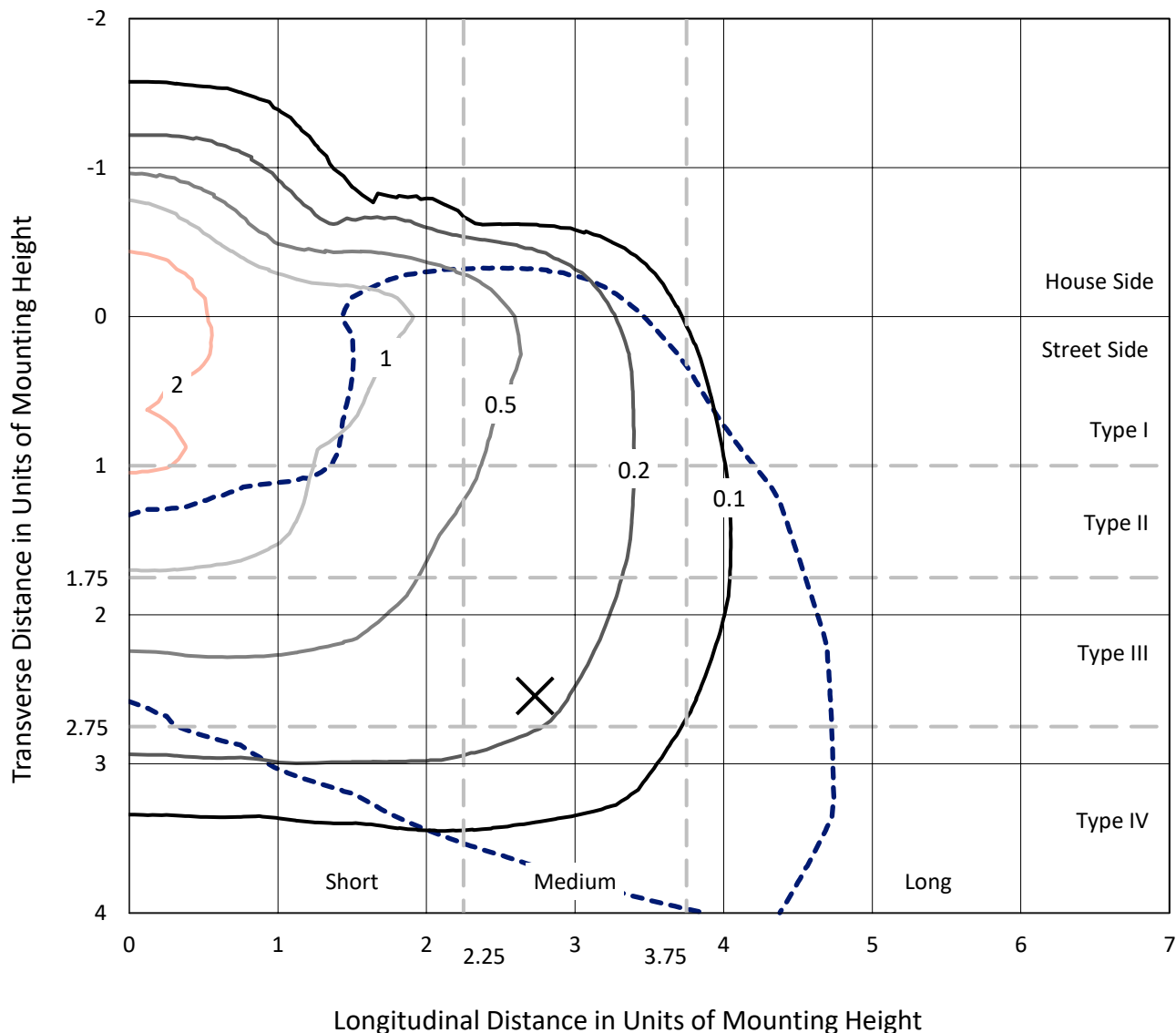
Lumens per Lamp: N/A
Luminaire Lumens: 4816.7 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (A_{in}): 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

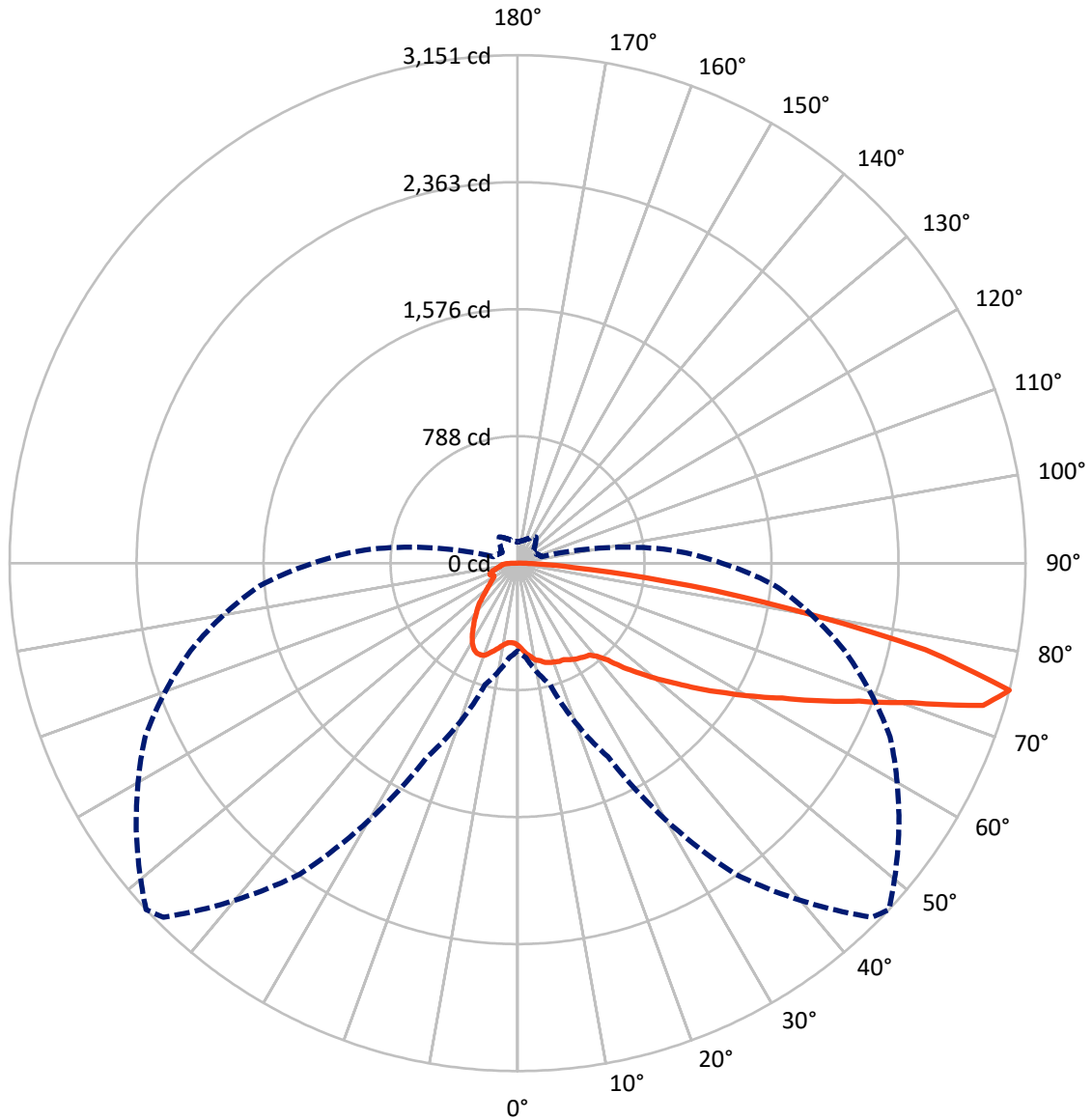
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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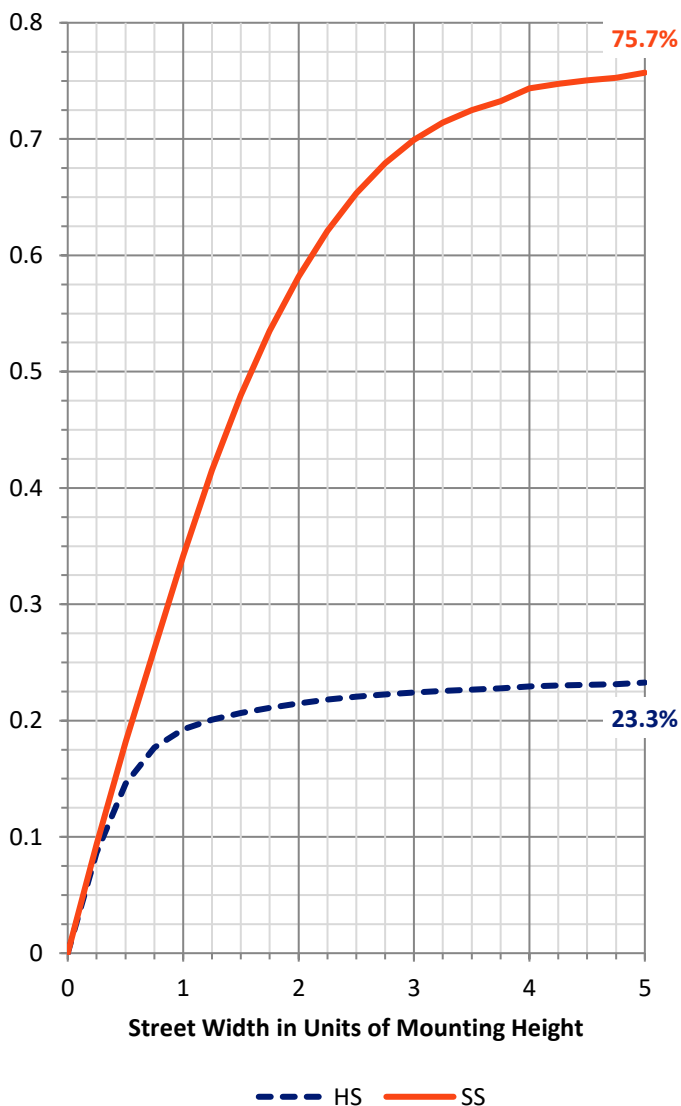
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.9	0.0	1151.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3664.8	0.0	3664.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	4816.7	0.0	4816.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.1
10°-20°	171.7	3.6
20°-30°	294.1	6.1
30°-40°	411.5	8.5
40°-50°	573.7	11.9
50°-60°	857.5	17.8
60°-70°	1236.4	25.7
70°-80°	1052.4	21.8
80°-90°	167.6	3.5
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°	4816.7	100.0
0°-180°	4816.7	100.0

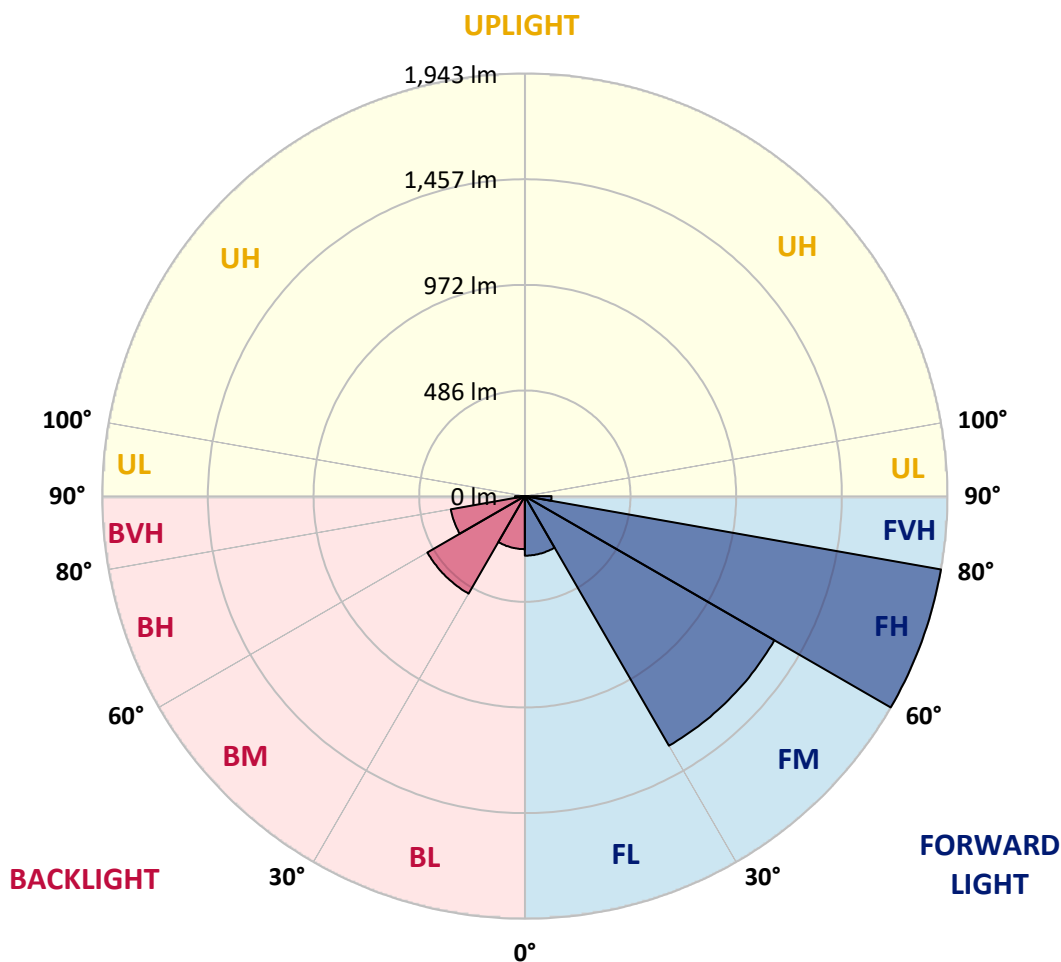


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.7	5.7			
FM (30°-60°)	1325.0	27.5			
FH (60°-80°)	1943.2	40.3			G2/5000
FVH (80°-90°)	122.8	2.6			G2/225
BL (0°-30°)	243.8	5.1	B1/500		
BM (30°-60°)	517.7	10.7	B1/1000		
BH (60°-80°)	345.6	7.2	B1/500		G1/500
BVH (80°-90°)	44.8	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4
2.5°	548.3	550.1	550.1	546.6	543.1	536.0	536.0	529.0	525.5	516.7	513.2
5°	599.3	594.0	588.8	587.0	578.2	565.9	564.2	557.1	537.8	529.0	516.7
7.5°	636.2	634.5	632.7	625.7	609.8	590.5	585.2	574.7	555.4	537.8	523.7
10°	666.1	673.1	666.1	650.3	634.5	613.4	611.6	592.3	574.7	553.6	536.0
12.5°	699.5	701.2	688.9	669.6	645.0	627.4	620.4	613.4	594.0	576.5	550.1
15°	722.3	718.8	710.0	683.7	655.5	638.0	639.7	630.9	609.8	597.5	569.4
17.5°	722.3	722.3	708.3	688.9	664.3	648.5	648.5	643.2	629.2	611.6	592.3
20°	708.3	708.3	699.5	688.9	660.8	657.3	653.8	650.3	650.3	634.5	606.3
22.5°	690.7	687.2	690.7	673.1	653.8	657.3	662.6	660.8	655.5	641.5	622.2
25°	673.1	674.9	678.4	666.1	648.5	664.3	662.6	671.4	667.8	657.3	641.5
27.5°	671.4	674.9	676.6	664.3	657.3	671.4	678.4	687.2	688.9	678.4	659.1
30°	697.7	696.0	694.2	678.4	673.1	685.4	692.5	704.8	715.3	692.5	676.6
32.5°	766.3	755.7	745.2	703.0	687.2	696.0	703.0	720.6	722.3	710.0	687.2
35°	875.2	868.2	833.0	759.2	715.3	706.5	713.5	725.8	729.4	720.6	703.0
37.5°	1000.0	996.5	947.3	857.7	773.3	731.1	724.1	741.7	755.7	736.4	711.8
40°	1123.0	1109.0	1073.8	986.0	847.1	768.0	759.2	768.0	773.3	759.2	743.4
42.5°	1233.8	1217.9	1209.2	1121.3	943.8	829.5	822.5	801.4	817.2	799.7	778.6
45°	1326.9	1323.4	1319.9	1244.3	1054.5	929.7	924.4	870.0	887.5	873.5	843.6
47.5°	1393.7	1409.5	1404.2	1362.1	1181.0	1036.9	1021.1	950.8	977.2	963.1	933.2
50°	1472.8	1481.6	1476.3	1448.2	1298.8	1159.9	1130.1	1058.0	1087.9	1086.1	1070.3
52.5°	1543.1	1569.4	1539.6	1537.8	1467.5	1293.5	1242.5	1174.0	1223.2	1242.5	1240.8
55°	1625.7	1646.8	1638.0	1634.5	1618.6	1423.6	1377.9	1295.3	1377.9	1406.0	1430.6
57.5°	1696.0	1694.2	1727.6	1768.0	1787.4	1573.0	1518.5	1421.8	1546.6	1578.2	1646.8
60°	1727.6	1757.5	1813.7	1915.7	1970.1	1732.9	1676.6	1599.3	1717.1	1741.7	1868.2
62.5°	1748.7	1775.1	1884.0	2056.3	2087.9	1896.3	1843.6	1766.3	1903.4	1920.9	2109.0
65°	1690.7	1715.3	1931.5	2109.0	2221.5	2072.1	2059.8	1978.9	2089.7	2100.2	2362.1
67.5°	1623.9	1650.3	1891.1	2175.8	2399.0	2305.8	2286.5	2189.8	2274.2	2261.9	2555.4
70°	1506.2	1541.3	1787.4	2233.8	2595.8	2632.7	2594.1	2457.0	2465.8	2349.8	2564.2
72.5°	1147.6	1170.5	1399.0	2003.5	2687.2	3086.1	3019.4	2745.2	2645.0	2367.3	2263.6
75°	544.8	587.0	780.3	1325.1	2355.0	3107.2	3151.2	2887.6	2550.1	2100.2	1604.6
77.5°	158.2	158.2	237.3	562.4	1476.3	2504.4	2587.0	2451.7	2103.7	1555.4	843.6
80°	86.1	91.4	124.8	198.6	648.5	1580.0	1699.5	1625.7	1239.0	615.1	217.9
82.5°	49.2	51.0	82.6	119.5	295.3	859.4	929.7	843.6	471.0	186.3	101.9
85°	28.1	29.9	47.5	79.1	175.7	316.3	344.5	298.8	189.8	124.8	51.0
87.5°	14.1	14.1	22.8	36.9	89.6	89.6	87.9	107.2	114.2	75.6	22.8
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°	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4	511.4
2.5°	511.4	509.7	509.7	502.6	500.9	495.6	495.6	492.1	490.3	495.6	495.6
5°	513.2	504.4	502.6	495.6	497.4	493.9	500.9	497.4	495.6	495.6	493.9
7.5°	516.7	507.9	500.9	495.6	493.9	499.1	507.9	507.9	518.5	513.2	513.2
10°	525.5	520.2	511.4	507.9	507.9	513.2	523.7	530.8	539.5	539.5	534.3
12.5°	546.6	537.8	527.2	522.0	529.0	534.3	544.8	551.9	562.4	565.9	562.4
15°	562.4	553.6	550.1	546.6	551.9	558.9	567.7	574.7	587.0	590.5	588.8
17.5°	583.5	572.9	571.2	572.9	576.5	581.7	587.0	592.3	601.1	601.1	601.1
20°	594.0	590.5	588.8	594.0	601.1	608.1	604.6	601.1	599.3	602.8	601.1
22.5°	613.4	609.8	611.6	616.9	616.9	613.4	608.1	595.8	592.3	595.8	592.3
25°	630.9	627.4	627.4	623.9	622.2	609.8	599.3	588.8	576.5	581.7	580.0
27.5°	648.5	646.8	646.8	632.7	615.1	594.0	580.0	567.7	560.6	569.4	564.2
30°	669.6	671.4	662.6	629.2	587.0	564.2	548.3	546.6	544.8	550.1	548.3
32.5°	688.9	690.7	676.6	623.9	565.9	522.0	506.2	507.9	516.7	525.5	534.3
35°	699.5	708.3	690.7	606.3	523.7	474.5	456.9	472.8	488.6	500.9	509.7
37.5°	718.8	741.7	711.8	587.0	486.8	432.3	420.0	425.3	444.6	464.0	472.8
40°	746.9	773.3	717.1	550.1	437.6	390.2	383.1	384.9	391.9	404.2	413.0
42.5°	796.1	824.3	722.3	502.6	388.4	363.8	344.5	339.2	333.9	333.9	332.2
45°	868.2	894.6	715.3	442.9	339.2	321.6	307.6	295.3	281.2	258.4	261.9
47.5°	973.6	994.7	720.6	390.2	293.5	279.4	268.9	254.8	233.7	209.1	207.4
50°	1133.6	1101.9	713.5	335.7	260.1	247.8	239.0	219.7	195.1	177.5	175.7
52.5°	1319.9	1256.6	706.5	290.0	232.0	221.4	214.4	193.3	170.5	161.7	159.9
55°	1544.8	1453.4	717.1	249.6	210.9	202.1	195.1	175.7	158.2	151.1	149.4
57.5°	1810.2	1666.1	775.1	217.9	188.1	184.5	182.8	167.0	151.1	145.9	144.1
60°	2059.8	1870.0	813.7	195.1	167.0	170.5	174.0	167.0	149.4	145.9	145.9
62.5°	2268.9	2038.7	752.2	175.7	156.4	167.0	182.8	177.5	170.5	174.0	170.5
65°	2453.5	2096.7	562.4	165.2	151.1	175.7	202.1	200.4	184.5	188.1	186.3
67.5°	2485.1	2026.4	367.3	156.4	147.6	193.3	226.7	205.6	174.0	174.0	168.7
70°	2353.3	1838.3	246.0	147.6	145.9	193.3	232.0	193.3	163.4	163.4	156.4
72.5°	1931.5	1469.3	189.8	138.8	133.6	172.2	219.7	182.8	152.9	149.4	137.1
75°	1268.9	947.3	154.7	131.8	116.0	151.1	198.6	168.7	145.9	135.3	130.1
77.5°	622.2	425.3	130.1	116.0	100.2	131.8	181.0	159.9	137.1	126.5	123.0
80°	170.5	152.9	109.0	101.9	84.4	114.2	170.5	152.9	128.3	117.8	112.5
82.5°	96.7	94.9	87.9	82.6	70.3	114.2	172.2	152.9	121.3	119.5	101.9
85°	52.7	56.2	63.3	61.5	54.5	101.9	163.4	133.6	98.4	82.6	82.6
87.5°	21.1	26.4	31.6	35.1	36.9	75.6	123.0	101.9	75.6	63.3	63.3
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)