

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: P671000

Luminaire Tested: **CCP-SA-2D-827-U-T4FT**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671000
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-827-U-T4FT
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

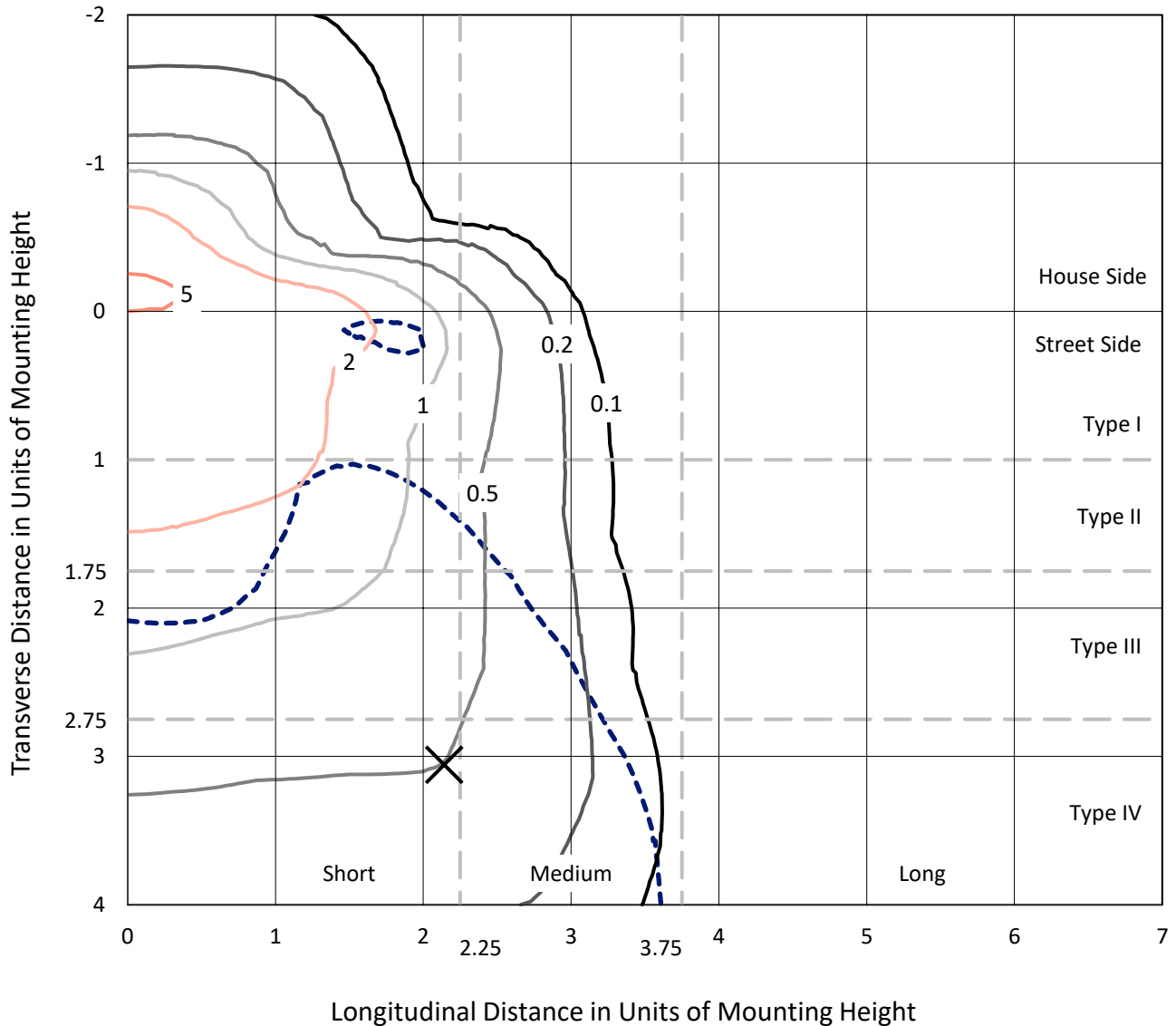
Lumens per Lamp: N/A
Luminaire Lumens: 8193.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
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

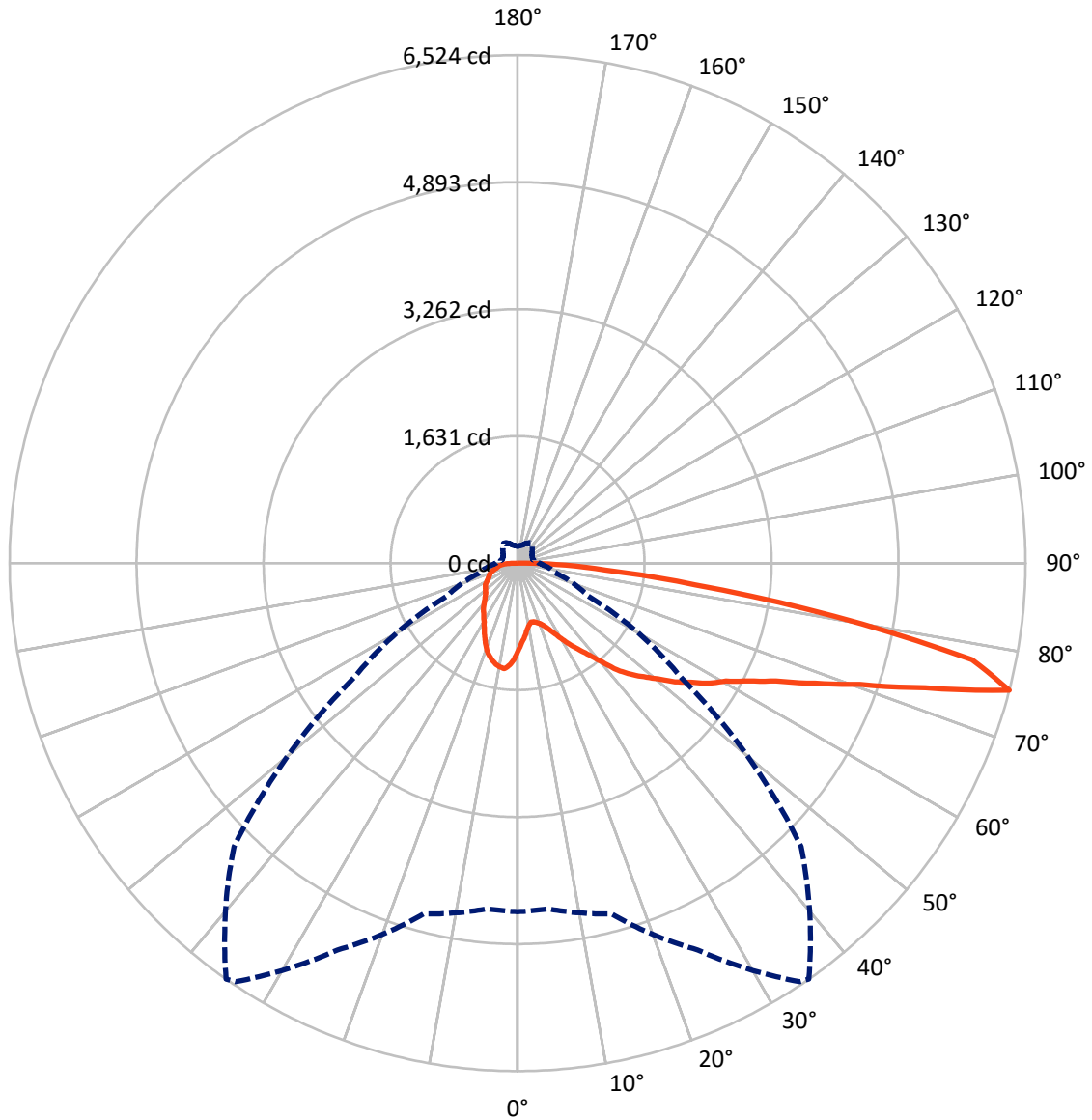
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 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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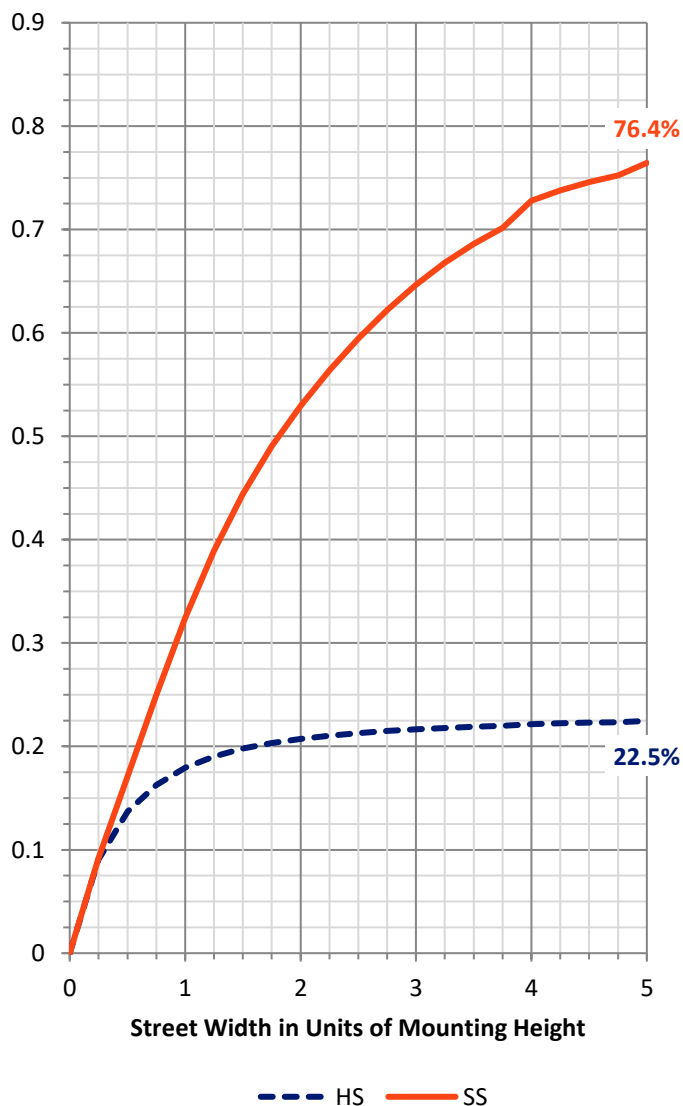
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.1	0.0	1883.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	6310.3	0.0	6310.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	8193.4	0.0	8193.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.3
10°-20°	310.4	3.8
20°-30°	515.1	6.3
30°-40°	763.6	9.3
40°-50°	1101.0	13.4
50°-60°	1514.0	18.5
60°-70°	1870.2	22.8
70°-80°	1710.9	20.9
80°-90°	301.2	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°	8193.4	100.0
0°-180°	8193.4	100.0



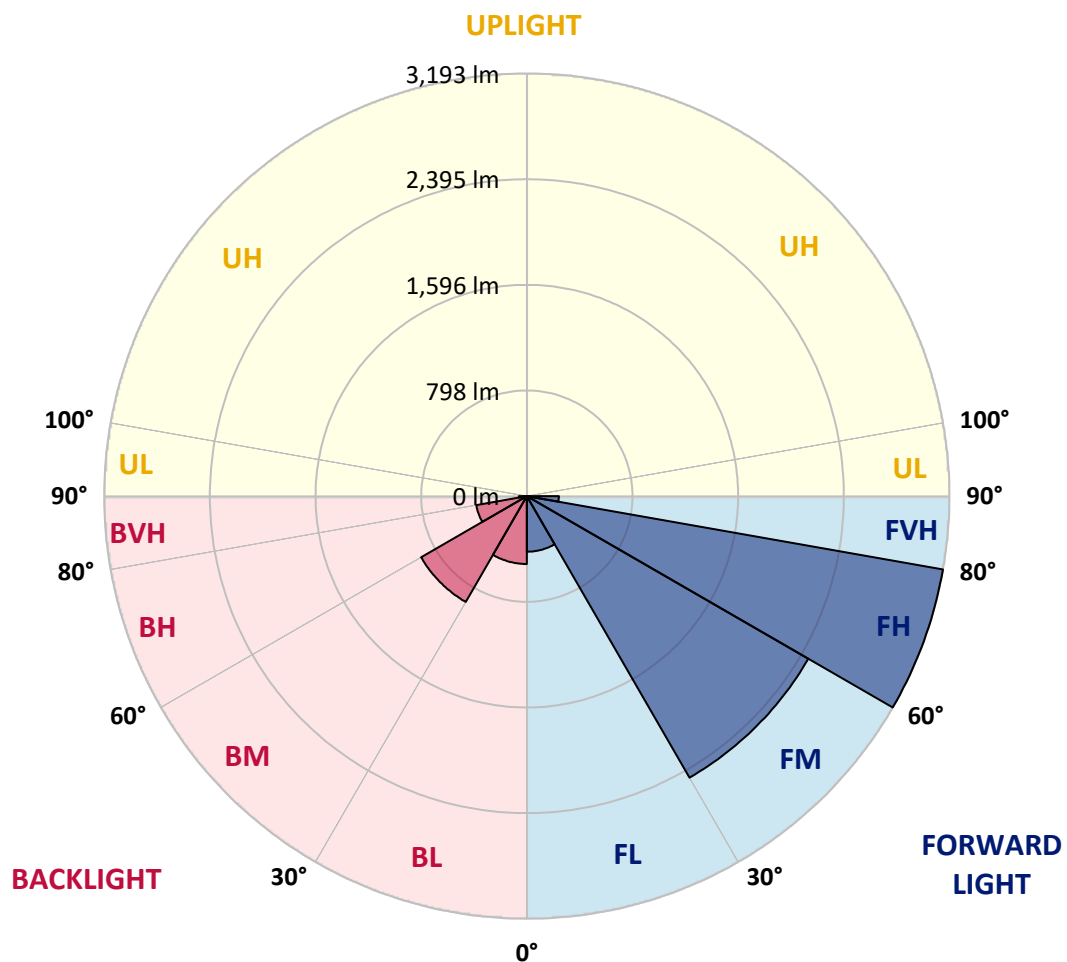
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.0	5.1			
FM (30°-60°)	2455.9	30.0			
FH (60°-80°)	3192.8	39.0			G2/5000
FVH (80°-90°)	241.7	3.0			G3/500
BL (0°-30°)	512.5	6.3	B2/1000		
BM (30°-60°)	922.7	11.3	B1/1000		
BH (60°-80°)	388.3	4.7	B1/500		G1/500
BVH (80°-90°)	59.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1016.9	1007.9	1016.9	1023.0	1023.0	1023.0	1032.0	1059.2	1077.3	1089.3	1110.5
5°	911.3	914.3	920.4	935.4	944.5	950.5	965.6	998.8	1026.0	1065.2	1110.5
7.5°	817.8	823.8	832.8	847.9	869.1	866.0	899.2	944.5	995.8	1047.1	1113.5
10°	769.5	781.6	784.6	787.6	808.7	808.7	854.0	905.3	968.6	1035.0	1113.5
12.5°	778.5	778.5	769.5	766.5	778.5	775.5	814.7	875.1	944.5	1038.0	1125.6
15°	805.7	805.7	787.6	769.5	787.6	781.6	814.7	863.0	944.5	1041.1	1149.7
17.5°	841.9	844.9	823.8	793.6	799.7	802.7	826.8	872.1	944.5	1047.1	1182.9
20°	914.3	899.2	866.0	817.8	838.9	829.8	866.0	905.3	962.6	1071.2	1231.2
22.5°	977.7	977.7	914.3	872.1	875.1	875.1	908.3	941.5	989.8	1104.4	1267.4
25°	1080.3	1074.3	995.8	932.4	938.5	941.5	959.6	998.8	1035.0	1122.5	1312.6
27.5°	1210.0	1195.0	1116.5	1044.1	1019.9	1029.0	1038.0	1068.2	1077.3	1152.7	1367.0
30°	1348.9	1327.7	1261.3	1146.7	1134.6	1137.6	1122.5	1140.6	1128.6	1201.0	1421.3
32.5°	1436.4	1436.4	1373.0	1288.5	1255.3	1255.3	1204.0	1216.1	1216.1	1246.3	1517.8
35°	1511.8	1505.8	1463.5	1400.2	1379.0	1367.0	1315.7	1333.8	1303.6	1333.8	1653.6
37.5°	1626.5	1608.4	1590.3	1548.0	1505.8	1496.7	1469.6	1481.6	1439.4	1424.3	1807.5
40°	1759.2	1750.2	1732.1	1714.0	1671.7	1668.7	1638.5	1650.6	1605.3	1548.0	1961.4
42.5°	1955.4	1928.2	1870.9	1855.8	1864.9	1876.9	1864.9	1843.7	1762.3	1689.8	2127.4
45°	2151.5	2109.3	2000.7	1976.5	2045.9	2036.9	2088.2	2079.1	1946.3	1831.7	2302.4
47.5°	2278.3	2242.1	2154.5	2139.5	2169.6	2181.7	2335.6	2308.4	2097.2	1961.4	2471.4
50°	2368.8	2371.8	2257.1	2296.4	2335.6	2335.6	2528.7	2525.7	2281.3	2121.4	2691.7
52.5°	2501.6	2459.3	2411.0	2447.3	2501.6	2531.7	2770.1	2703.7	2396.0	2257.1	2939.1
55°	2571.0	2552.9	2510.6	2574.0	2688.7	2703.7	2957.2	2905.9	2525.7	2417.1	3192.6
57.5°	2598.1	2613.2	2682.6	2709.8	2869.7	2908.9	3126.2	3053.8	2646.4	2616.2	3388.7
60°	2718.8	2697.7	2791.3	2899.9	3053.8	3074.9	3337.4	3180.5	2764.1	2746.0	3452.1
62.5°	2963.3	2908.9	2960.2	3090.0	3304.2	3331.4	3560.7	3349.5	2815.4	2833.5	3449.1
65°	3319.3	3280.1	3204.7	3307.3	3609.0	3648.2	3823.3	3494.3	2800.3	2803.3	3204.7
67.5°	3738.8	3675.4	3596.9	3660.3	4028.5	4119.0	4143.1	3557.7	2694.7	2634.3	2607.2
70°	4106.9	4064.7	4013.4	4122.0	4635.0	4668.2	4541.4	3518.5	2402.0	2115.3	1738.1
72.5°	4450.9	4429.8	4460.0	4867.3	5455.8	5476.9	4915.6	3271.0	1898.1	1282.5	808.7
75°	4478.1	4457.0	4665.2	5482.9	6484.8	6524.0	5148.0	2564.9	1001.8	522.0	341.0
77.5°	3032.7	3096.0	3485.3	4801.0	5956.7	5965.7	4209.5	1191.9	413.4	307.8	238.4
80°	745.3	826.8	1312.6	2483.5	4016.4	4116.0	2305.4	401.3	271.6	235.4	178.0
82.5°	271.6	295.7	534.1	1122.5	2257.1	2296.4	805.7	217.3	196.1	181.1	129.8
85°	129.8	132.8	253.5	552.2	1140.6	1128.6	289.7	129.8	141.8	123.7	78.5
87.5°	54.3	54.3	111.7	256.5	503.9	488.8	93.5	60.4	81.5	72.4	39.2
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°	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5	1122.5
2.5°	1125.6	1131.6	1155.7	1173.8	1191.9	1207.0	1231.2	1231.2	1246.3	1246.3	1246.3
5°	1122.5	1155.7	1195.0	1237.2	1264.4	1291.5	1315.7	1318.7	1327.7	1339.8	1342.8
7.5°	1134.6	1167.8	1231.2	1291.5	1324.7	1336.8	1367.0	1357.9	1357.9	1357.9	1367.0
10°	1158.7	1195.0	1282.5	1336.8	1360.9	1363.9	1354.9	1348.9	1330.7	1324.7	1315.7
12.5°	1176.9	1240.2	1327.7	1370.0	1360.9	1351.9	1330.7	1300.6	1279.5	1273.4	1273.4
15°	1222.1	1285.5	1367.0	1382.0	1367.0	1318.7	1291.5	1258.3	1240.2	1213.1	1225.1
17.5°	1261.3	1333.8	1406.2	1388.1	1357.9	1282.5	1243.2	1195.0	1170.8	1140.6	1140.6
20°	1312.6	1379.0	1442.4	1394.1	1327.7	1246.3	1182.9	1122.5	1089.3	1059.2	1065.2
22.5°	1370.0	1430.3	1463.5	1370.0	1282.5	1188.9	1101.4	1044.1	1001.8	983.7	989.8
25°	1415.2	1481.6	1475.6	1330.7	1228.2	1116.5	1019.9	965.6	956.6	938.5	938.5
27.5°	1472.6	1542.0	1466.5	1282.5	1137.6	1001.8	941.5	920.4	920.4	911.3	917.3
30°	1548.0	1596.3	1445.4	1213.1	1023.0	899.2	869.1	881.1	902.3	893.2	896.2
32.5°	1671.7	1665.7	1427.3	1134.6	902.3	799.7	820.8	844.9	863.0	872.1	878.1
35°	1792.4	1753.2	1406.2	1029.0	790.6	751.4	769.5	796.6	829.8	838.9	841.9
37.5°	1913.1	1843.7	1370.0	899.2	721.2	709.1	727.2	742.3	769.5	775.5	781.6
40°	2039.9	1904.1	1306.6	772.5	663.9	663.9	675.9	679.0	694.0	703.1	709.1
42.5°	2151.5	1961.4	1191.9	654.8	603.5	624.6	627.7	621.6	609.5	615.6	618.6
45°	2287.3	2024.8	1059.2	570.3	558.3	585.4	591.4	567.3	546.2	534.1	528.1
47.5°	2420.1	2091.2	944.5	500.9	516.0	558.3	558.3	531.1	494.9	464.7	452.6
50°	2540.8	2157.6	851.0	458.7	473.8	537.1	543.2	491.9	452.6	416.4	410.4
52.5°	2743.0	2269.2	754.4	425.5	449.6	522.0	519.0	473.8	422.5	383.2	380.2
55°	2921.0	2380.9	627.7	392.3	425.5	500.9	510.0	455.7	386.2	350.0	344.0
57.5°	3050.8	2408.0	500.9	359.1	401.3	476.8	488.8	419.4	362.1	331.9	328.9
60°	3074.9	2302.4	407.4	331.9	368.1	443.6	452.6	398.3	344.0	319.9	313.8
62.5°	2963.3	2100.2	347.0	307.8	341.0	410.4	428.5	374.2	325.9	304.8	301.8
65°	2709.8	1804.5	304.8	286.7	322.9	386.2	407.4	356.1	310.8	292.7	289.7
67.5°	2145.5	1385.1	271.6	271.6	298.7	362.1	392.3	344.0	295.7	283.7	280.6
70°	1403.2	832.8	247.4	250.5	280.6	341.0	374.2	328.9	277.6	274.6	268.6
72.5°	603.5	383.2	220.3	229.3	253.5	304.8	347.0	307.8	256.5	247.4	238.4
75°	277.6	232.4	199.2	205.2	226.3	268.6	313.8	283.7	238.4	223.3	214.2
77.5°	196.1	169.0	166.0	178.0	193.1	232.4	277.6	265.5	220.3	208.2	202.2
80°	144.8	129.8	138.8	150.9	159.9	214.2	262.5	244.4	202.2	184.1	175.0
82.5°	102.6	96.6	108.6	120.7	129.8	187.1	241.4	214.2	169.0	153.9	138.8
85°	60.4	63.4	75.4	81.5	90.5	138.8	202.2	172.0	129.8	99.6	96.6
87.5°	27.2	27.2	36.2	39.2	45.3	81.5	135.8	108.6	81.5	63.4	60.4
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)