

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: P671145

Luminaire Tested: **CCP-SA-2E-827-U-T4W**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671145
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-827-U-T4W
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4W distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

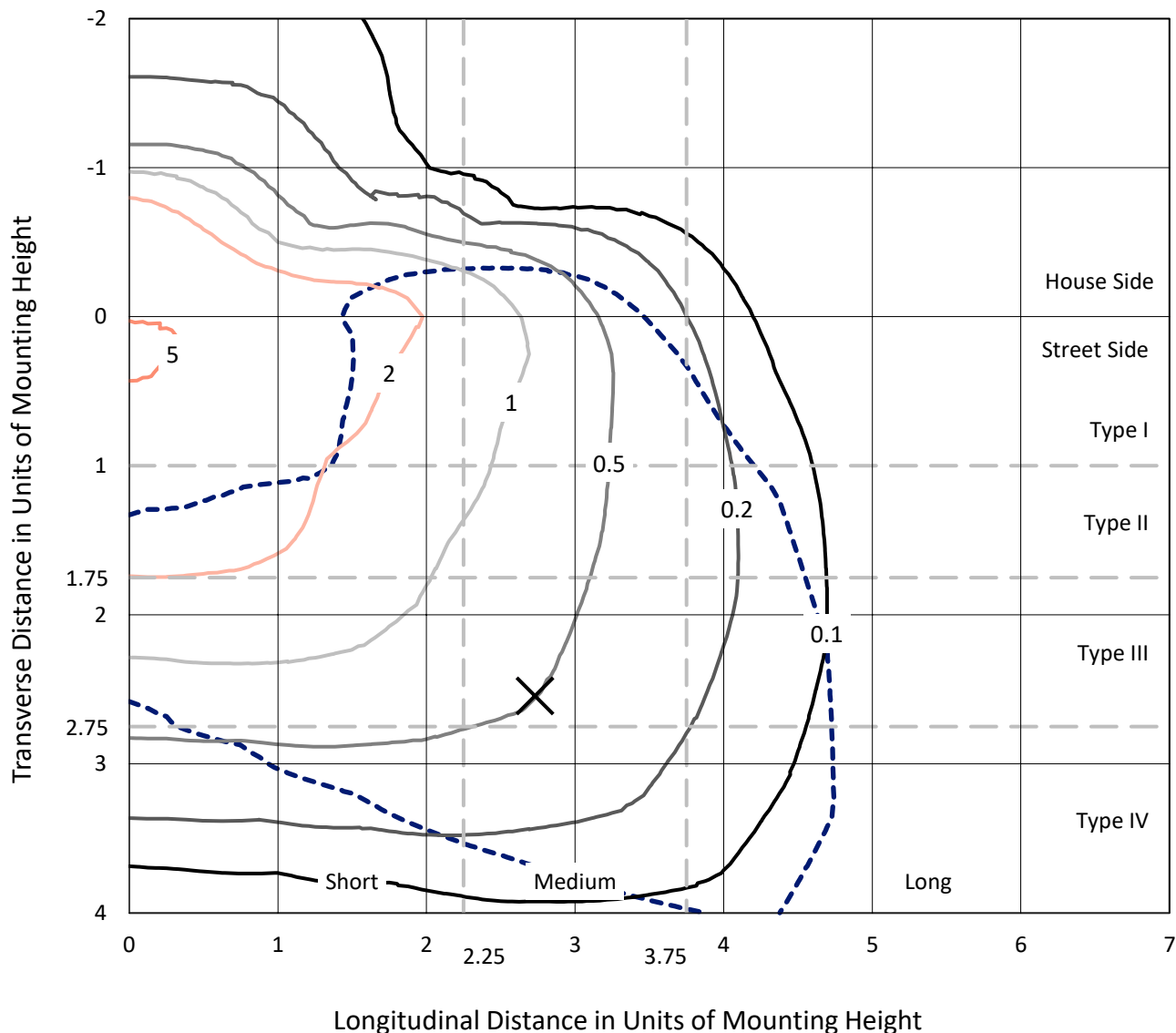
Lumens per Lamp: N/A
Luminaire Lumens: 10139.8 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 106.6
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

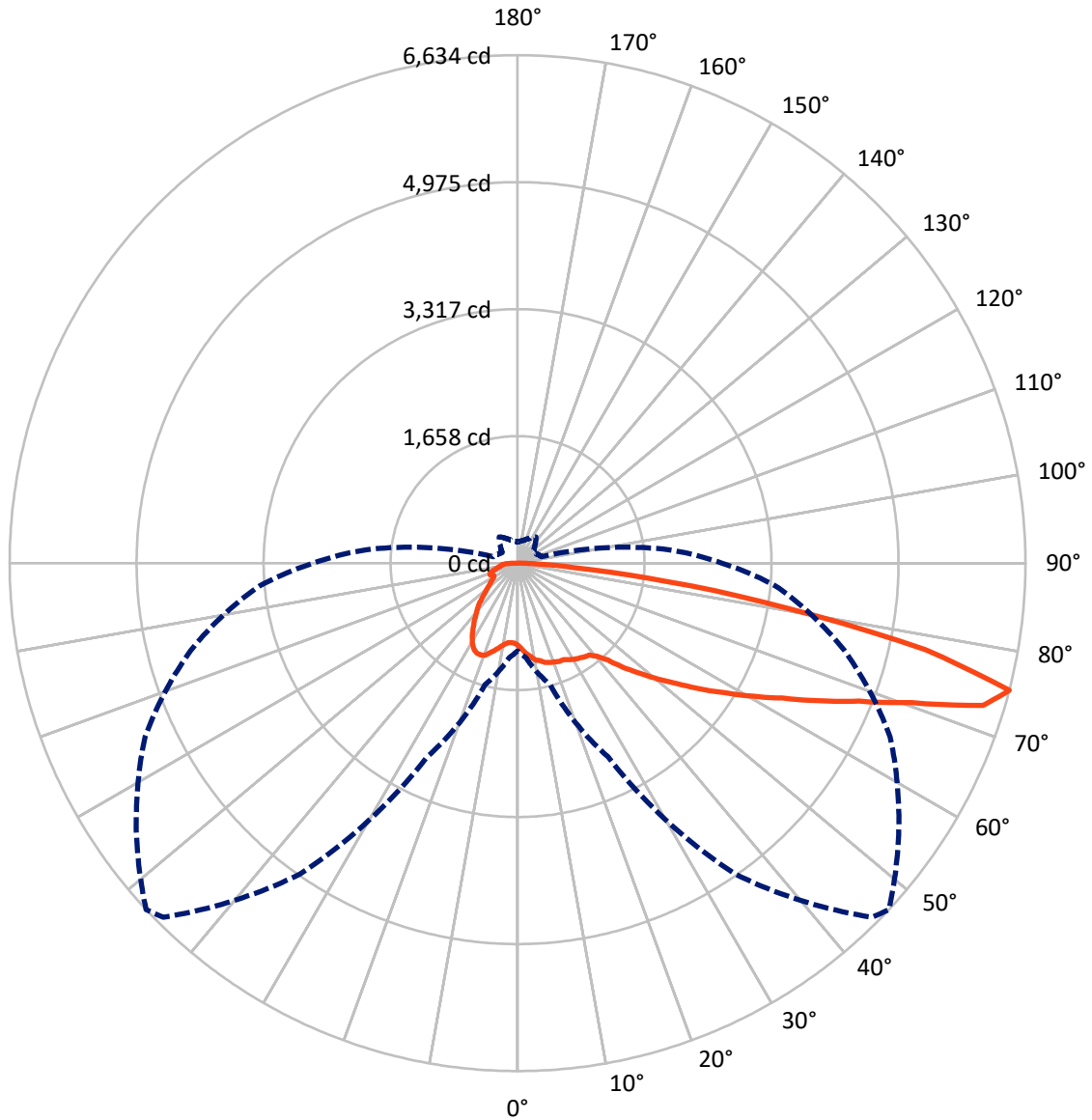
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.1 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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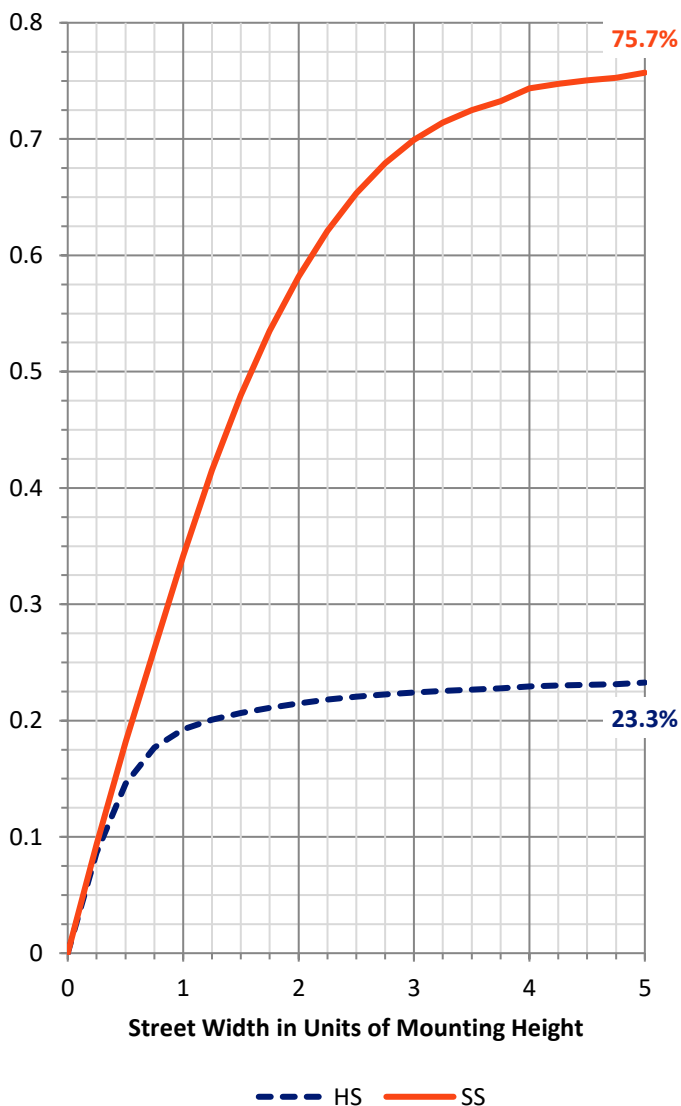
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2424.9	0.0	2424.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7714.9	0.0	7714.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	10139.8	0.0	10139.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.1
10°-20°	361.4	3.6
20°-30°	619.1	6.1
30°-40°	866.2	8.5
40°-50°	1207.8	11.9
50°-60°	1805.3	17.8
60°-70°	2602.8	25.7
70°-80°	2215.5	21.8
80°-90°	352.9	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°	10139.8	100.0
0°-180°	10139.8	100.0

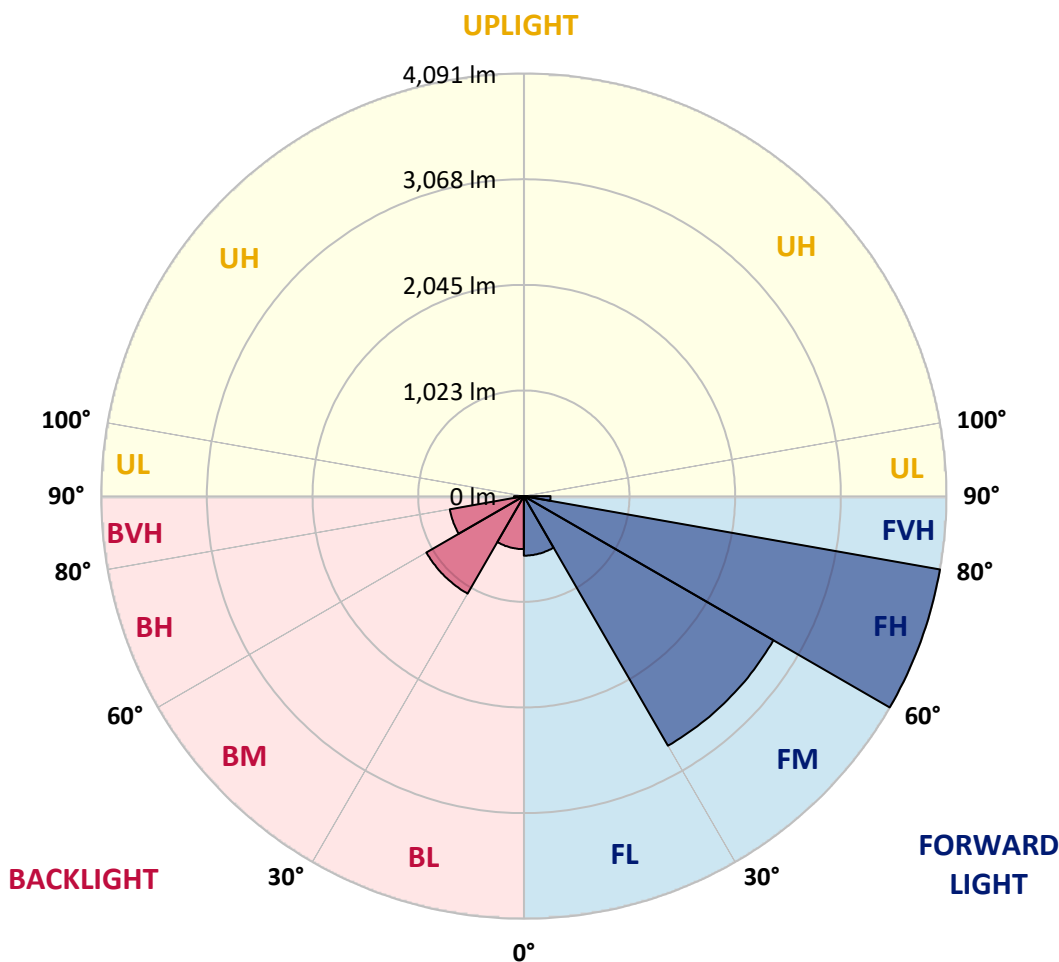


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.1	5.7			
FM (30°-60°)	2789.4	27.5			
FH (60°-80°)	4090.8	40.3			G2/5000
FVH (80°-90°)	258.6	2.6			G3/500
BL (0°-30°)	513.2	5.1	B2/1000		
BM (30°-60°)	1089.9	10.7	B2/2500		
BH (60°-80°)	727.5	7.2	B2/1000		G2/1000
BVH (80°-90°)	94.3	0.9			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1154.3	1158.0	1158.0	1150.6	1143.2	1128.4	1128.4	1113.6	1106.2	1087.7	1080.3
5°	1261.6	1250.5	1239.4	1235.7	1217.2	1191.3	1187.6	1172.8	1132.1	1113.6	1087.7
7.5°	1339.3	1335.6	1331.9	1317.1	1283.8	1243.1	1232.0	1209.8	1169.1	1132.1	1102.5
10°	1402.2	1417.0	1402.2	1368.9	1335.6	1291.2	1287.5	1246.8	1209.8	1165.4	1128.4
12.5°	1472.5	1476.2	1450.3	1409.6	1357.8	1320.8	1306.0	1291.2	1250.5	1213.5	1158.0
15°	1520.6	1513.2	1494.7	1439.2	1380.0	1343.0	1346.7	1328.2	1283.8	1257.9	1198.7
17.5°	1520.6	1520.6	1491.0	1450.3	1398.5	1365.2	1365.2	1354.1	1324.5	1287.5	1246.8
20°	1491.0	1491.0	1472.5	1450.3	1391.1	1383.7	1376.3	1368.9	1368.9	1335.6	1276.4
22.5°	1454.0	1446.6	1454.0	1417.0	1376.3	1383.7	1394.8	1391.1	1380.0	1350.4	1309.7
25°	1417.0	1420.7	1428.1	1402.2	1365.2	1398.5	1394.8	1413.3	1405.9	1383.7	1350.4
27.5°	1413.3	1420.7	1424.4	1398.5	1383.7	1413.3	1428.1	1446.6	1450.3	1428.1	1387.4
30°	1468.8	1465.1	1461.4	1428.1	1417.0	1442.9	1457.7	1483.6	1505.8	1457.7	1424.4
32.5°	1613.1	1590.9	1568.7	1479.9	1446.6	1465.1	1479.9	1516.9	1520.6	1494.7	1446.6
35°	1842.5	1827.7	1753.7	1598.3	1505.8	1487.3	1502.1	1528.0	1535.4	1516.9	1479.9
37.5°	2105.2	2097.8	1994.2	1805.5	1627.9	1539.1	1524.3	1561.3	1590.9	1550.2	1498.4
40°	2364.1	2334.5	2260.5	2075.6	1783.3	1616.8	1598.3	1616.8	1627.9	1598.3	1565.0
42.5°	2597.2	2563.9	2545.4	2360.4	1986.8	1746.3	1731.5	1687.1	1720.4	1683.4	1639.0
45°	2793.3	2785.9	2778.5	2619.4	2219.9	1957.2	1946.1	1831.4	1868.4	1838.8	1775.9
47.5°	2933.9	2967.2	2956.1	2867.3	2486.2	2182.9	2149.6	2001.6	2057.1	2027.5	1964.6
50°	3100.4	3118.9	3107.8	3048.6	2734.1	2441.8	2378.9	2227.3	2290.1	2286.4	2253.1
52.5°	3248.4	3303.9	3241.0	3237.3	3089.3	2723.0	2615.7	2471.4	2575.0	2615.7	2612.0
55°	3422.3	3466.7	3448.2	3440.8	3407.5	2996.8	2900.6	2726.7	2900.6	2959.8	3011.6
57.5°	3570.3	3566.6	3636.9	3721.9	3762.6	3311.3	3196.6	2993.1	3255.8	3322.4	3466.7
60°	3636.9	3699.8	3818.1	4032.7	4147.4	3648.0	3529.6	3366.8	3614.7	3666.5	3932.8
62.5°	3681.3	3736.7	3966.1	4328.7	4395.3	3992.0	3881.0	3718.2	4006.8	4043.8	4439.7
65°	3559.2	3611.0	4066.0	4439.7	4676.5	4362.0	4336.1	4165.9	4399.0	4421.2	4972.5
67.5°	3418.6	3474.1	3980.9	4580.3	5050.2	4854.1	4813.4	4609.9	4787.5	4761.6	5379.4
70°	3170.7	3244.7	3762.6	4702.4	5464.5	5542.2	5460.8	5172.3	5190.8	4946.6	5397.9
72.5°	2415.9	2464.0	2945.0	4217.7	5656.9	6496.8	6356.2	5779.0	5568.1	4983.6	4765.3
75°	1146.9	1235.7	1642.7	2789.6	4957.7	6541.2	6633.7	6078.7	5368.3	4421.2	3377.9
77.5°	333.0	333.0	499.5	1183.9	3107.8	5272.1	5446.0	5161.2	4428.6	3274.3	1775.9
80°	181.3	192.4	262.7	418.1	1365.2	3326.1	3577.7	3422.3	2608.3	1294.9	458.8
82.5°	103.6	107.3	173.9	251.6	621.6	1809.2	1957.2	1775.9	991.5	392.2	214.6
85°	59.2	62.9	99.9	166.5	370.0	666.0	725.2	629.0	399.6	262.7	107.3
87.5°	29.6	29.6	48.1	77.7	188.7	188.7	185.0	225.7	240.5	159.1	48.1
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°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1076.6	1072.9	1072.9	1058.1	1054.4	1043.3	1043.3	1035.9	1032.2	1043.3	1043.3
5°	1080.3	1061.8	1058.1	1043.3	1047.0	1039.6	1054.4	1047.0	1043.3	1043.3	1039.6
7.5°	1087.7	1069.2	1054.4	1043.3	1039.6	1050.7	1069.2	1069.2	1091.4	1080.3	1080.3
10°	1106.2	1095.1	1076.6	1069.2	1069.2	1080.3	1102.5	1117.3	1135.8	1135.8	1124.7
12.5°	1150.6	1132.1	1109.9	1098.8	1113.6	1124.7	1146.9	1161.7	1183.9	1191.3	1183.9
15°	1183.9	1165.4	1158.0	1150.6	1161.7	1176.5	1195.0	1209.8	1235.7	1243.1	1239.4
17.5°	1228.3	1206.1	1202.4	1206.1	1213.5	1224.6	1235.7	1246.8	1265.3	1265.3	1265.3
20°	1250.5	1243.1	1239.4	1250.5	1265.3	1280.1	1272.7	1265.3	1261.6	1269.0	1265.3
22.5°	1291.2	1283.8	1287.5	1298.6	1298.6	1291.2	1280.1	1254.2	1246.8	1254.2	1246.8
25°	1328.2	1320.8	1320.8	1313.4	1309.7	1283.8	1261.6	1239.4	1213.5	1224.6	1220.9
27.5°	1365.2	1361.5	1361.5	1331.9	1294.9	1250.5	1220.9	1195.0	1180.2	1198.7	1187.6
30°	1409.6	1413.3	1394.8	1324.5	1235.7	1187.6	1154.3	1150.6	1146.9	1158.0	1154.3
32.5°	1450.3	1454.0	1424.4	1313.4	1191.3	1098.8	1065.5	1069.2	1087.7	1106.2	1124.7
35°	1472.5	1491.0	1454.0	1276.4	1102.5	998.9	961.9	995.2	1028.5	1054.4	1072.9
37.5°	1513.2	1561.3	1498.4	1235.7	1024.8	910.1	884.2	895.3	936.0	976.7	995.2
40°	1572.4	1627.9	1509.5	1158.0	921.2	821.3	806.5	810.2	825.0	850.9	869.4
42.5°	1676.0	1735.2	1520.6	1058.1	817.6	765.8	725.2	714.1	703.0	703.0	699.3
45°	1827.7	1883.2	1505.8	932.3	714.1	677.1	647.5	621.6	592.0	543.9	551.3
47.5°	2049.7	2094.1	1516.9	821.3	617.9	588.3	566.1	536.5	492.1	440.3	436.6
50°	2386.3	2319.7	1502.1	706.7	547.6	521.7	503.2	462.5	410.7	373.7	370.0
52.5°	2778.5	2645.3	1487.3	610.5	488.4	466.2	451.4	407.0	358.9	340.4	336.7
55°	3252.1	3059.7	1509.5	525.4	444.0	425.5	410.7	370.0	333.0	318.2	314.5
57.5°	3810.7	3507.4	1631.6	458.8	395.9	388.5	384.8	351.5	318.2	307.1	303.4
60°	4336.1	3936.5	1713.0	410.7	351.5	358.9	366.3	351.5	314.5	307.1	307.1
62.5°	4776.4	4291.7	1583.5	370.0	329.3	351.5	384.8	373.7	358.9	366.3	358.9
65°	5164.9	4413.8	1183.9	347.8	318.2	370.0	425.5	421.8	388.5	395.9	392.2
67.5°	5231.4	4265.8	773.2	329.3	310.8	407.0	477.3	432.9	366.3	366.3	355.2
70°	4954.0	3869.9	518.0	310.8	307.1	407.0	488.4	407.0	344.1	344.1	329.3
72.5°	4066.0	3093.0	399.6	292.3	281.2	362.6	462.5	384.8	321.9	314.5	288.6
75°	2671.2	1994.2	325.6	277.5	244.2	318.2	418.1	355.2	307.1	284.9	273.8
77.5°	1309.7	895.3	273.8	244.2	210.9	277.5	381.1	336.7	288.6	266.4	259.0
80°	358.9	321.9	229.4	214.6	177.6	240.5	358.9	321.9	270.1	247.9	236.8
82.5°	203.5	199.8	185.0	173.9	148.0	240.5	362.6	321.9	255.3	251.6	214.6
85°	111.0	118.4	133.2	129.5	114.7	214.6	344.1	281.2	207.2	173.9	173.9
87.5°	44.4	55.5	66.6	74.0	77.7	159.1	259.0	214.6	159.1	133.2	133.2
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)