

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: P675772

Luminaire Tested: **CCW-SA-2C-840-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675772
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL4 distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

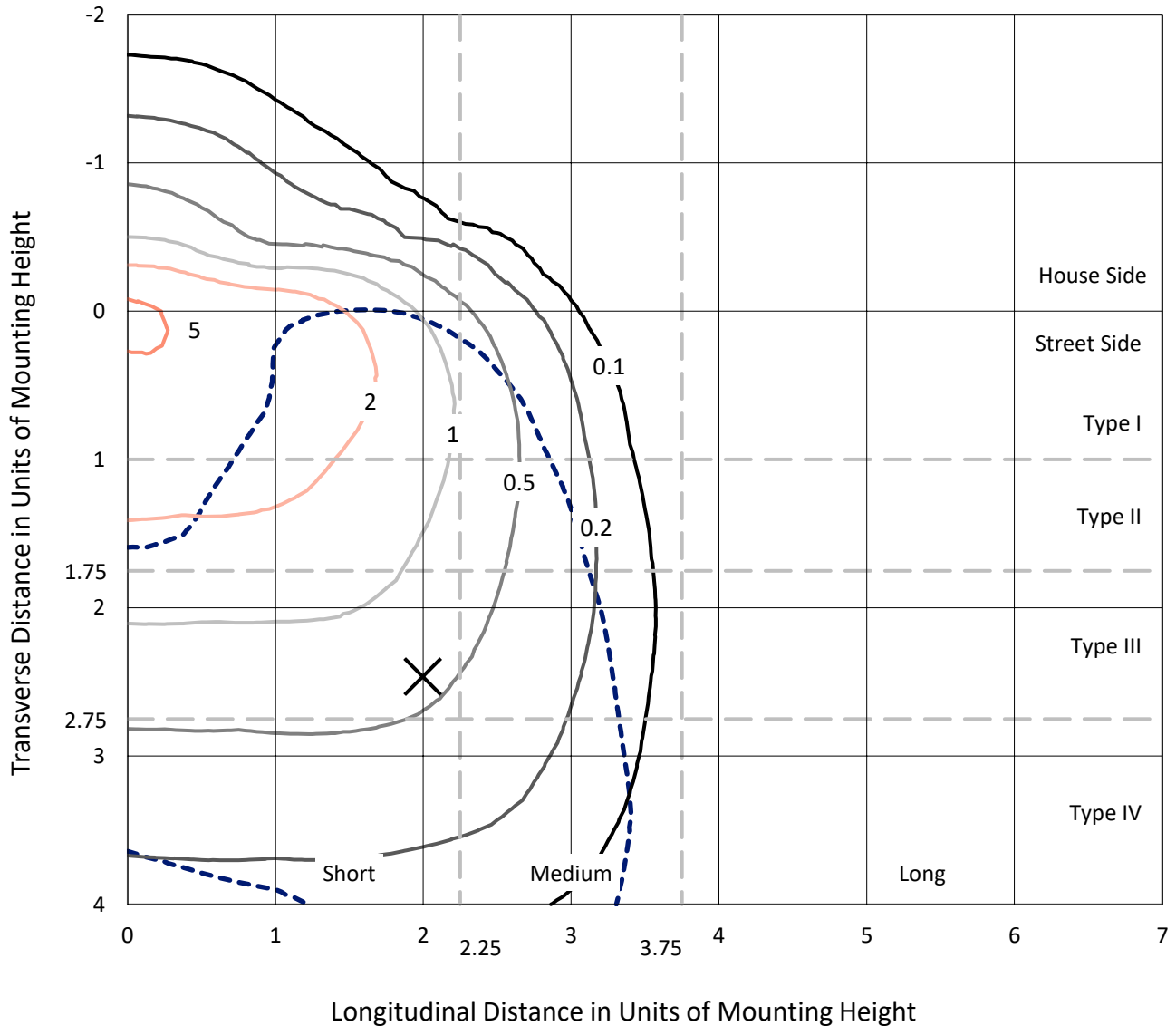
Lumens per Lamp: N/A
Luminaire Lumens: 7554 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

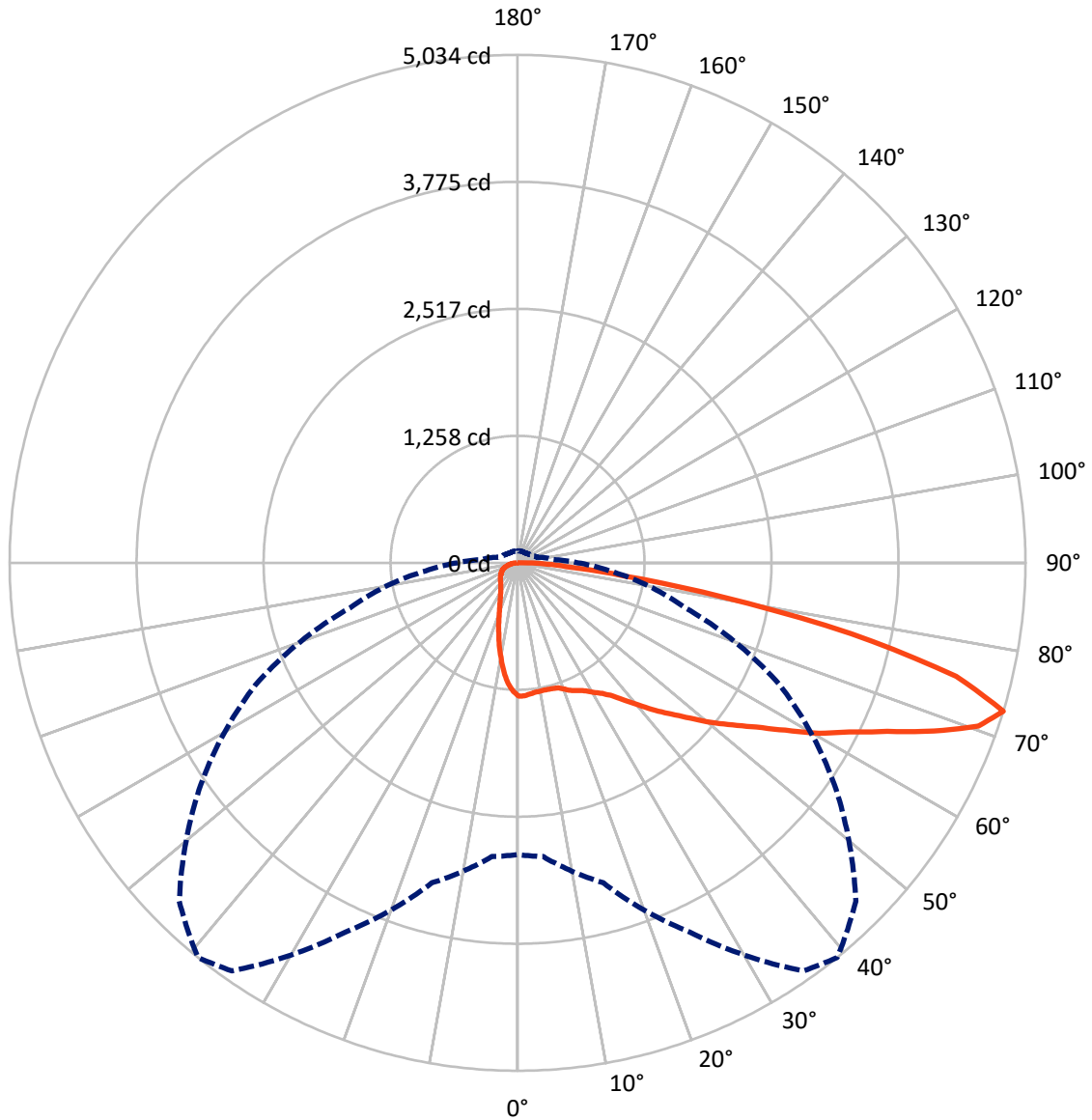
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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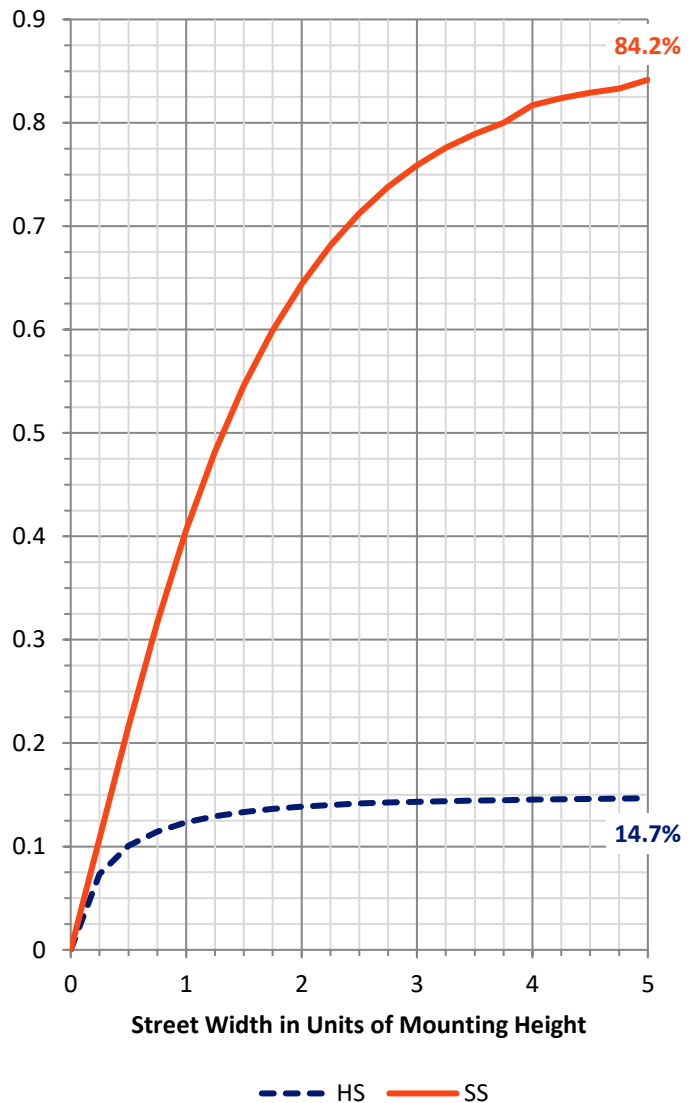
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.7	0.0	1122.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	6431.3	0.0	6431.3
	% Fixture	85.1	0.0	85.1
Total	Lumens	7554.0	0.0	7554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.5
10°-20°	298.2	3.9
20°-30°	454.3	6.0
30°-40°	664.6	8.8
40°-50°	1017.5	13.5
50°-60°	1492.3	19.8
60°-70°	1903.2	25.2
70°-80°	1375.1	18.2
80°-90°	232.0	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°	7554.0	100.0
0°-180°	7554.0	100.0

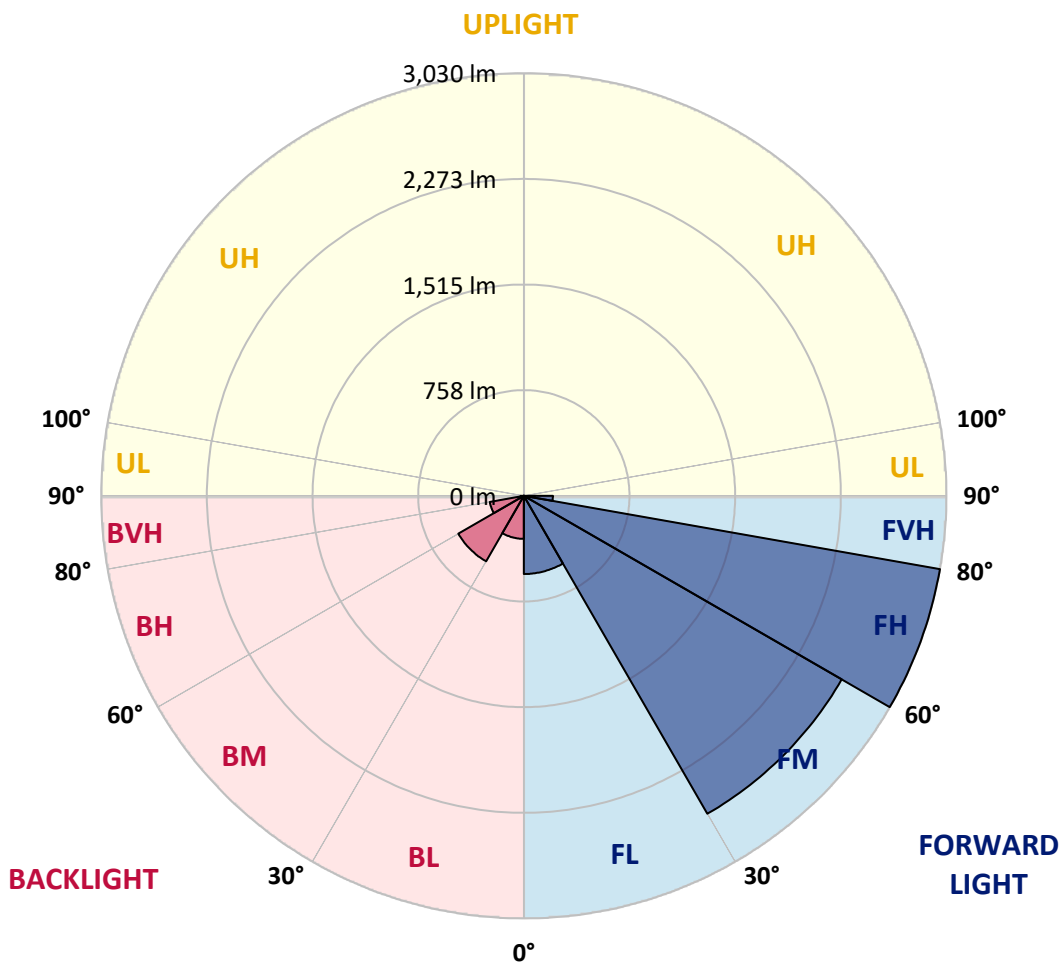


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.6	7.4			
FM (30°-60°)	2632.0	34.8			
FH (60°-80°)	3030.2	40.1			G2/5000
FVH (80°-90°)	208.5	2.8			G2/225
BL (0°-30°)	308.7	4.1	B1/500		
BM (30°-60°)	542.4	7.2	B1/1000		
BH (60°-80°)	248.1	3.3	B1/500		G1/500
BVH (80°-90°)	23.5	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1342.1	1345.0	1339.3	1333.6	1330.8	1319.4	1330.8	1325.1	1319.4	1319.4	1319.4
5°	1325.1	1328.0	1328.0	1322.3	1325.1	1305.3	1302.4	1305.3	1296.7	1291.1	1288.2
7.5°	1299.6	1305.3	1316.6	1313.8	1302.4	1293.9	1296.7	1293.9	1279.7	1271.2	1248.5
10°	1279.7	1285.4	1291.1	1296.7	1293.9	1291.1	1288.2	1276.9	1274.0	1254.2	1231.5
12.5°	1259.9	1259.9	1262.7	1285.4	1288.2	1288.2	1271.2	1271.2	1262.7	1259.9	1225.8
15°	1240.0	1248.5	1271.2	1276.9	1288.2	1293.9	1285.4	1285.4	1271.2	1251.3	1225.8
17.5°	1245.7	1259.9	1282.6	1296.7	1302.4	1302.4	1313.8	1305.3	1285.4	1274.0	1248.5
20°	1274.0	1276.9	1305.3	1330.8	1336.5	1336.5	1325.1	1316.6	1302.4	1282.6	1248.5
22.5°	1291.1	1310.9	1345.0	1359.2	1376.2	1376.2	1362.0	1342.1	1322.3	1302.4	1265.5
25°	1364.8	1367.7	1381.9	1404.6	1413.1	1401.7	1387.6	1364.8	1339.3	1319.4	1285.4
27.5°	1415.9	1430.1	1447.1	1458.5	1444.3	1435.8	1424.4	1398.9	1379.0	1362.0	1313.8
30°	1509.6	1492.5	1503.9	1509.6	1484.0	1489.7	1458.5	1435.8	1413.1	1413.1	1359.2
32.5°	1566.3	1580.5	1569.2	1566.3	1546.5	1543.6	1523.8	1498.2	1484.0	1501.1	1427.3
35°	1665.6	1657.1	1657.1	1654.3	1631.6	1617.4	1617.4	1572.0	1586.2	1623.1	1532.3
37.5°	1716.7	1713.9	1730.9	1745.1	1722.4	1730.9	1722.4	1702.5	1708.2	1773.5	1662.8
40°	1767.8	1787.6	1821.7	1827.4	1841.6	1852.9	1847.2	1844.4	1867.1	1972.1	1838.7
42.5°	1816.0	1833.0	1884.1	1929.5	1963.6	2000.5	2003.3	2003.3	2077.1	2227.5	2051.5
45°	1878.4	1892.6	1963.6	2054.4	2111.1	2136.7	2159.4	2184.9	2284.2	2463.0	2278.5
47.5°	1963.6	1974.9	2060.0	2173.5	2284.2	2298.4	2343.8	2372.2	2522.6	2704.2	2511.2
50°	2085.6	2077.1	2145.2	2309.7	2417.6	2485.7	2550.9	2602.0	2749.6	2948.2	2692.8
52.5°	2184.9	2184.9	2236.0	2454.5	2602.0	2667.3	2735.4	2806.3	2976.6	3192.2	2840.4
55°	2355.1	2338.1	2369.3	2596.3	2809.2	2871.6	3002.1	3061.7	3226.3	3373.8	2965.2
57.5°	2471.5	2480.0	2516.9	2783.6	3053.2	3129.8	3260.3	3302.9	3447.6	3563.9	3056.0
60°	2624.7	2596.3	2675.8	2990.8	3322.7	3430.6	3538.4	3563.9	3671.8	3685.9	3098.6
62.5°	2772.3	2766.6	2834.7	3197.9	3612.2	3688.8	3799.4	3827.8	3873.2	3782.4	3039.0
65°	2863.1	2900.0	3027.6	3424.9	3941.3	4026.4	4137.1	4080.4	4029.3	3697.3	2746.7
67.5°	2987.9	3004.9	3200.7	3671.8	4321.6	4449.2	4545.7	4321.6	3941.3	3348.3	2312.6
70°	3016.3	3061.7	3317.1	3930.0	4713.1	4843.7	4849.3	4239.3	3620.7	2724.0	1677.0
72.5°	2891.4	2922.7	3283.0	4037.8	4937.3	5033.8	4741.5	3833.5	2868.7	1716.7	913.7
75°	2431.8	2519.7	2857.4	3705.8	4525.9	4489.0	4017.9	2925.5	1722.4	760.5	385.9
77.5°	1694.0	1696.8	2048.7	2695.6	3388.0	3379.5	2865.9	1696.8	737.8	306.5	227.0
80°	751.9	805.9	1018.7	1452.8	2057.2	2057.2	1671.3	842.7	368.9	198.6	156.1
82.5°	442.7	459.7	544.8	678.2	1001.6	1055.6	800.2	561.8	252.5	124.9	96.5
85°	326.3	354.7	405.8	408.6	473.9	482.4	442.7	488.1	173.1	68.1	79.5
87.5°	244.0	261.1	323.5	269.6	252.5	238.4	272.4	499.4	65.3	34.1	25.5
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°	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3	1322.3
2.5°	1308.1	1308.1	1302.4	1291.1	1291.1	1268.4	1274.0	1279.7	1265.5	1265.5	1268.4
5°	1288.2	1276.9	1262.7	1245.7	1234.3	1203.1	1197.4	1177.6	1174.7	1169.1	1160.5
7.5°	1248.5	1231.5	1205.9	1180.4	1143.5	1115.1	1081.1	1052.7	1041.4	1032.9	1030.0
10°	1211.6	1208.8	1166.2	1115.1	1058.4	1004.5	953.4	916.5	893.8	879.6	876.8
12.5°	1211.6	1188.9	1129.3	1058.4	976.1	896.7	831.4	780.3	749.1	726.4	717.9
15°	1205.9	1183.2	1103.8	996.0	902.3	794.5	703.7	649.8	604.4	581.7	584.5
17.5°	1211.6	1177.6	1066.9	950.6	820.0	703.7	595.9	530.6	485.2	468.2	465.4
20°	1214.5	1171.9	1038.5	888.1	734.9	604.4	502.2	439.8	405.8	394.4	394.4
22.5°	1208.8	1154.9	996.0	814.4	661.1	522.1	437.0	383.1	360.4	346.2	351.9
25°	1234.3	1152.0	956.2	751.9	576.0	454.0	388.7	349.0	334.8	326.3	329.2
27.5°	1240.0	1152.0	925.0	681.0	502.2	402.9	351.9	326.3	315.0	309.3	306.5
30°	1262.7	1157.7	888.1	610.1	442.7	363.2	323.5	309.3	300.8	297.9	297.9
32.5°	1325.1	1174.7	848.4	550.5	391.6	329.2	303.6	292.3	286.6	283.8	286.6
35°	1398.9	1220.1	805.9	488.1	354.7	306.5	286.6	278.1	275.2	275.2	275.2
37.5°	1512.4	1288.2	769.0	437.0	323.5	283.8	269.6	266.7	263.9	266.7	266.7
40°	1642.9	1362.0	734.9	397.3	300.8	269.6	255.4	255.4	252.5	255.4	258.2
42.5°	1793.3	1452.8	700.9	357.5	280.9	258.2	246.9	244.0	241.2	246.9	249.7
45°	2000.5	1577.7	678.2	334.8	266.7	246.9	235.5	235.5	232.7	232.7	238.4
47.5°	2173.5	1696.8	678.2	312.1	258.2	238.4	227.0	227.0	221.3	224.2	224.2
50°	2318.3	1799.0	692.4	306.5	246.9	229.8	221.3	215.7	212.8	212.8	212.8
52.5°	2414.7	1861.4	703.7	300.8	241.2	218.5	212.8	210.0	204.3	201.5	204.3
55°	2511.2	1904.0	706.5	300.8	232.7	207.1	201.5	201.5	195.8	193.0	193.0
57.5°	2548.1	1887.0	666.8	295.1	227.0	198.6	193.0	190.1	187.3	184.4	184.4
60°	2531.1	1824.5	578.9	280.9	221.3	193.0	181.6	181.6	181.6	175.9	178.8
62.5°	2414.7	1611.7	465.4	258.2	212.8	181.6	170.3	175.9	175.9	173.1	173.1
65°	2108.3	1330.8	377.4	238.4	201.5	173.1	161.7	170.3	173.1	170.3	167.4
67.5°	1685.5	1024.3	312.1	215.7	187.3	158.9	150.4	158.9	161.7	158.9	158.9
70°	1157.7	661.1	252.5	193.0	167.4	144.7	136.2	141.9	141.9	144.7	144.7
72.5°	598.7	357.5	207.1	164.6	144.7	130.5	122.0	122.0	119.2	119.2	119.2
75°	297.9	244.0	173.1	139.0	122.0	110.7	105.0	99.3	99.3	99.3	99.3
77.5°	207.1	187.3	141.9	110.7	99.3	90.8	90.8	82.3	82.3	82.3	82.3
80°	156.1	147.6	107.8	85.1	76.6	70.9	70.9	68.1	68.1	65.3	65.3
82.5°	110.7	119.2	82.3	62.4	56.8	53.9	53.9	51.1	51.1	45.4	45.4
85°	88.0	99.3	62.4	45.4	42.6	36.9	36.9	34.1	34.1	31.2	28.4
87.5°	25.5	53.9	25.5	17.0	17.0	17.0	17.0	14.2	14.2	11.4	11.4
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)