

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: P675702

Luminaire Tested: **CCW-SA-1E-740-U-SL4**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675702
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-740-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

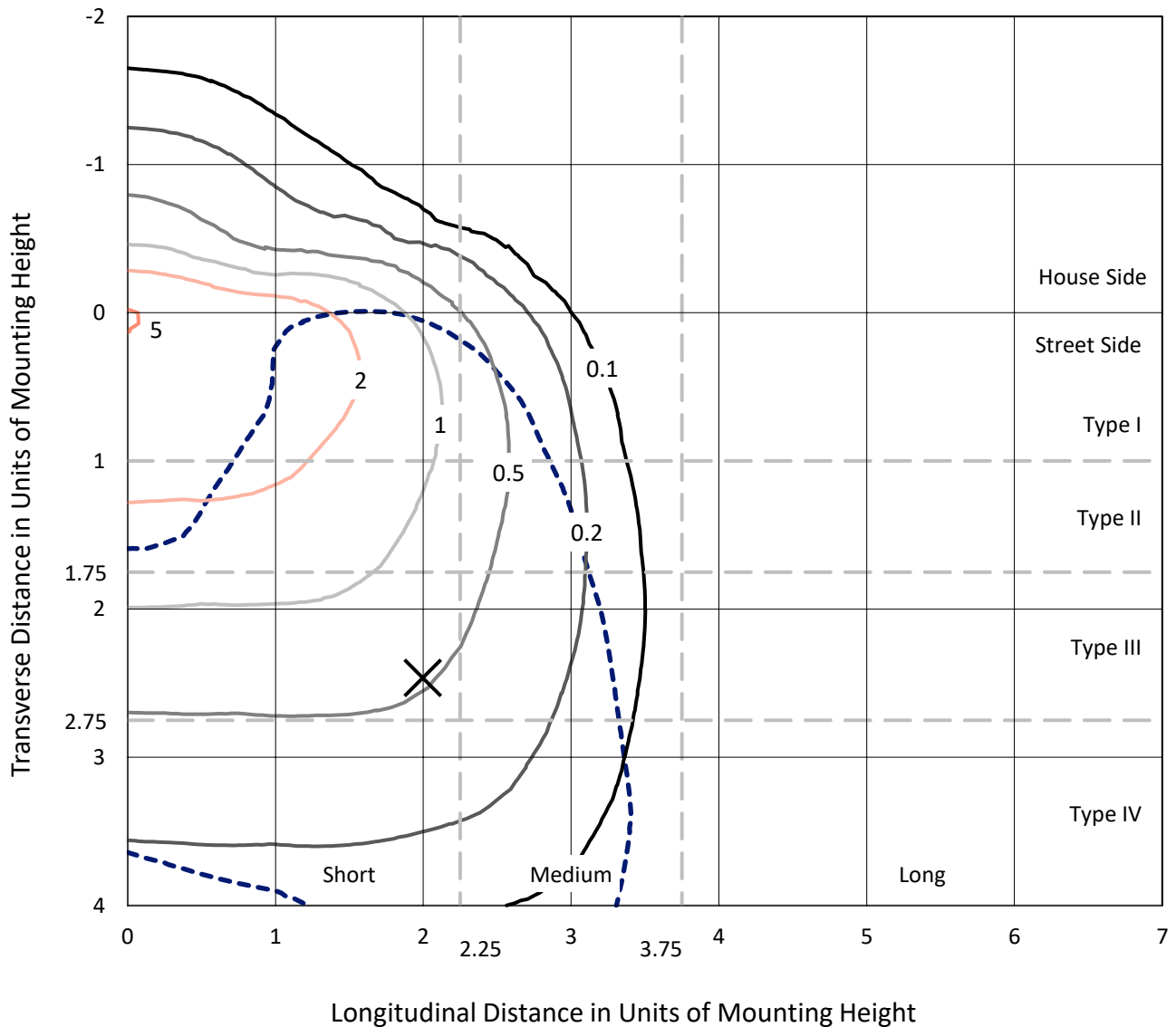
Lumens per Lamp: N/A
Luminaire Lumens: 6699.7 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

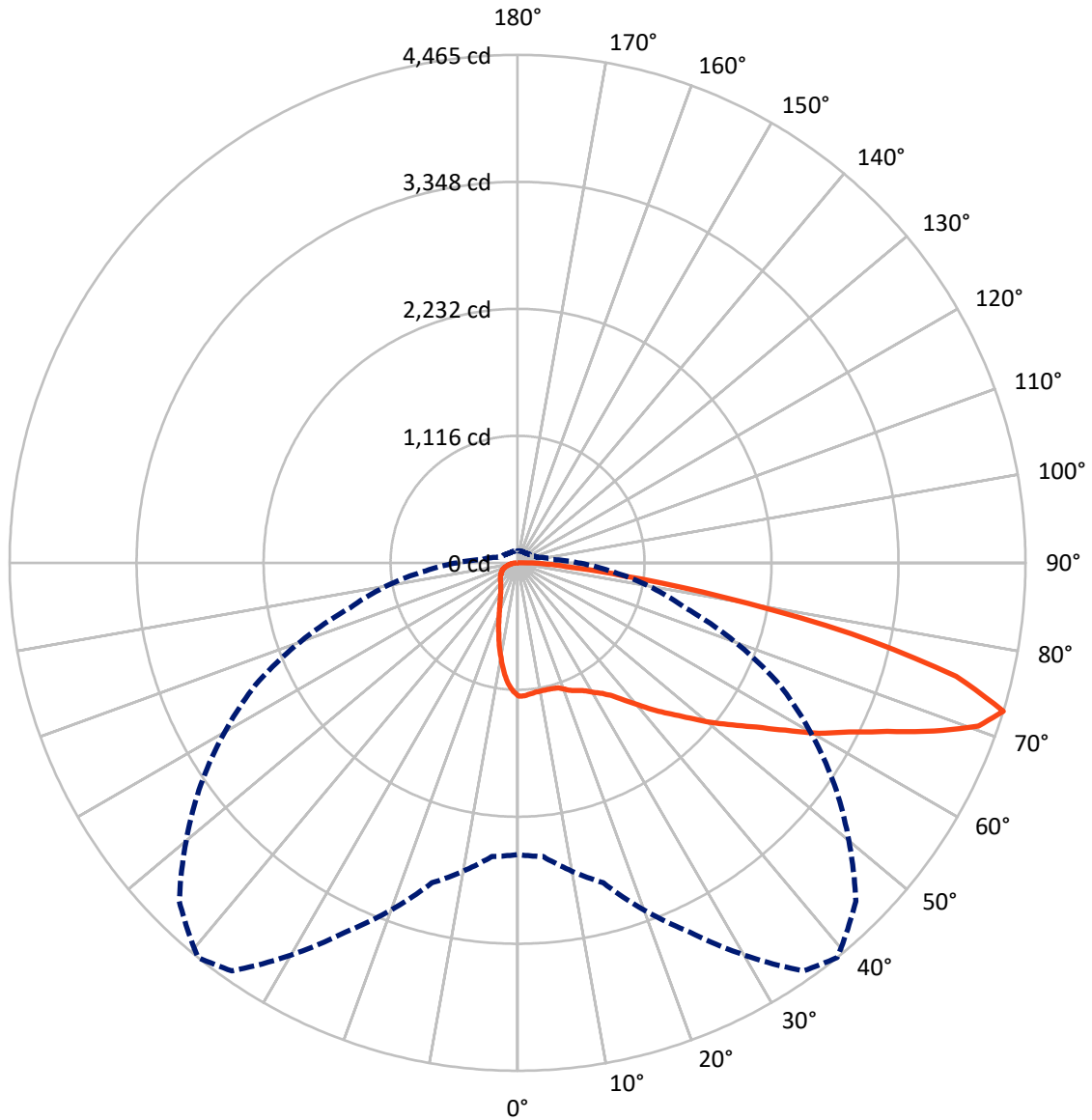
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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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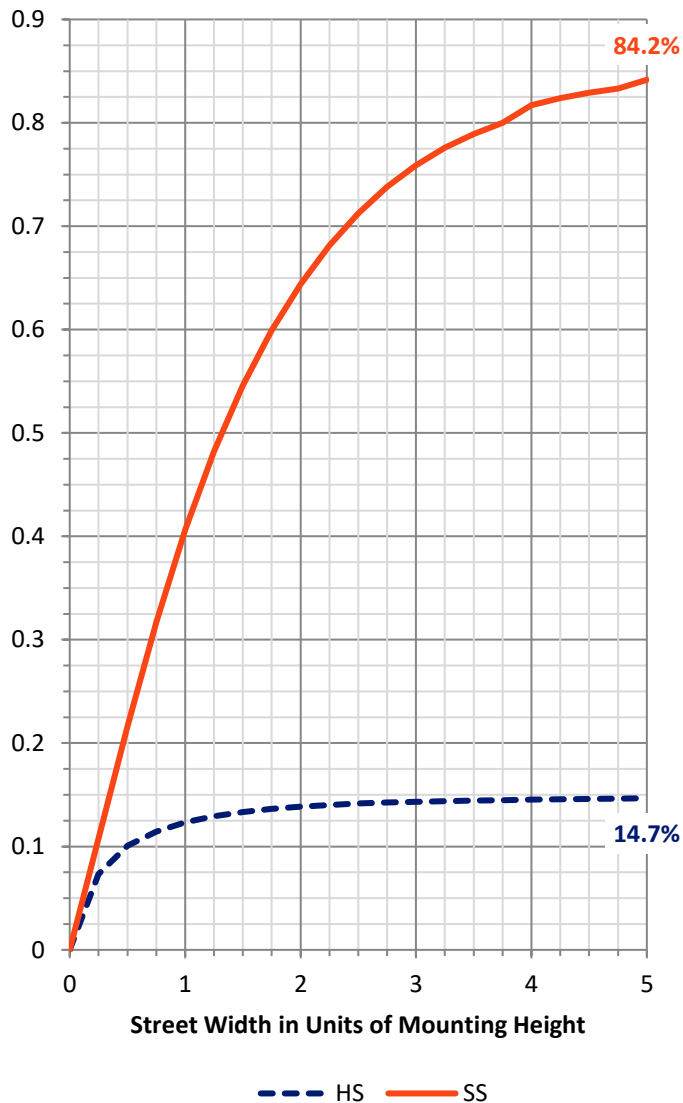
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.7	0.0	995.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5704.0	0.0	5704.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	6699.7	0.0	6699.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	1.5
10°-20°	264.5	3.9
20°-30°	403.0	6.0
30°-40°	589.4	8.8
40°-50°	902.4	13.5
50°-60°	1323.5	19.8
60°-70°	1688.0	25.2
70°-80°	1219.6	18.2
80°-90°	205.7	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°	6699.7	100.0
0°-180°	6699.7	100.0

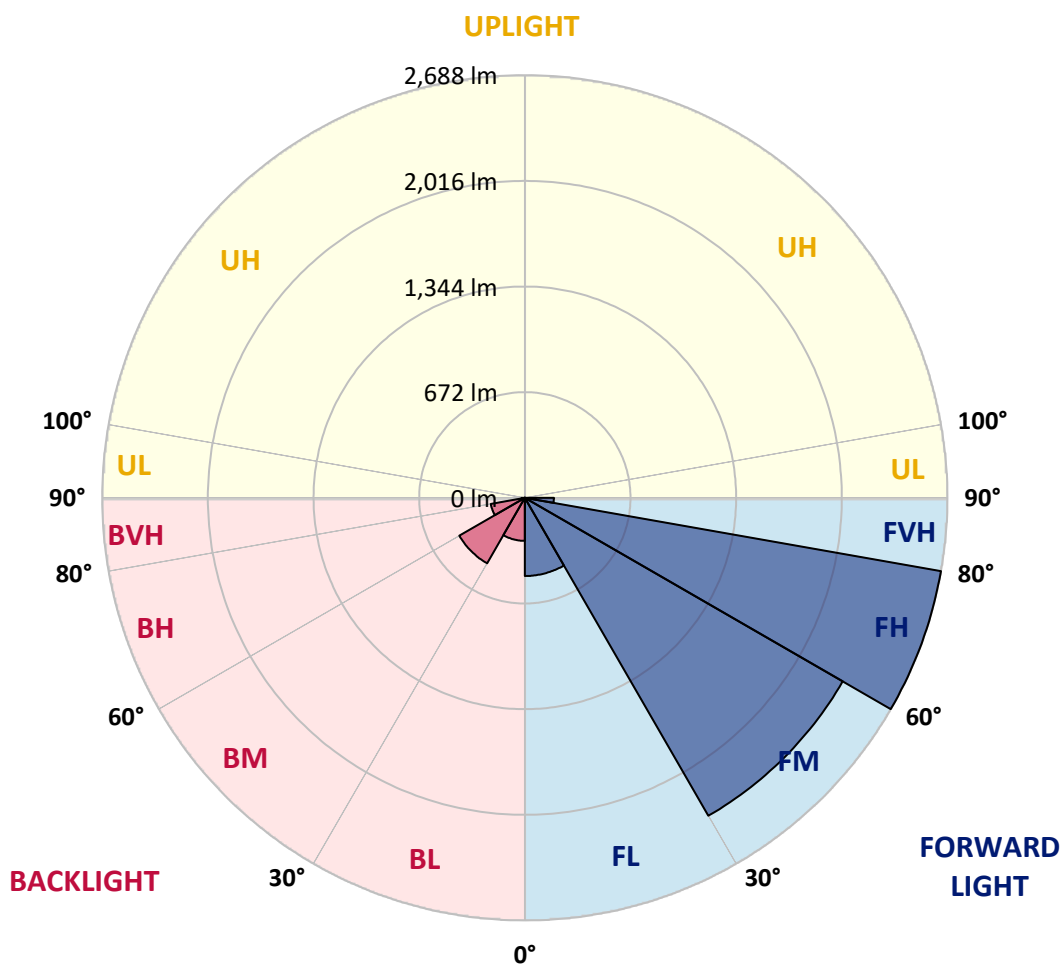


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.2	7.4			
FM (30°-60°)	2334.4	34.8			
FH (60°-80°)	2687.6	40.1			G2/5000
FVH (80°-90°)	184.9	2.8			G2/225
BL (0°-30°)	273.8	4.1	B1/500		
BM (30°-60°)	481.0	7.2	B1/1000		
BH (60°-80°)	220.0	3.3	B1/500		G1/500
BVH (80°-90°)	20.8	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°	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8
2.5°	1190.4	1192.9	1187.9	1182.8	1180.3	1170.2	1180.3	1175.3	1170.2	1170.2	1170.2
5°	1175.3	1177.8	1177.8	1172.8	1175.3	1157.7	1155.1	1157.7	1150.1	1145.1	1142.6
7.5°	1152.6	1157.7	1167.7	1165.2	1155.1	1147.6	1150.1	1147.6	1135.0	1127.5	1107.3
10°	1135.0	1140.0	1145.1	1150.1	1147.6	1145.1	1142.6	1132.5	1130.0	1112.4	1092.2
12.5°	1117.4	1117.4	1119.9	1140.0	1142.6	1142.6	1127.5	1127.5	1119.9	1117.4	1087.2
15°	1099.8	1107.3	1127.5	1132.5	1142.6	1147.6	1140.0	1140.0	1127.5	1109.8	1087.2
17.5°	1104.8	1117.4	1137.5	1150.1	1155.1	1155.1	1165.2	1157.7	1140.0	1130.0	1107.3
20°	1130.0	1132.5	1157.7	1180.3	1185.3	1185.3	1175.3	1167.7	1155.1	1137.5	1107.3
22.5°	1145.1	1162.7	1192.9	1205.5	1220.6	1220.6	1208.0	1190.4	1172.8	1155.1	1122.4
25°	1210.5	1213.0	1225.6	1245.7	1253.3	1243.2	1230.6	1210.5	1187.9	1170.2	1140.0
27.5°	1255.8	1268.4	1283.5	1293.6	1281.0	1273.4	1263.4	1240.7	1223.1	1208.0	1165.2
30°	1338.9	1323.8	1333.8	1338.9	1316.2	1321.2	1293.6	1273.4	1253.3	1253.3	1205.5
32.5°	1389.2	1401.8	1391.7	1389.2	1371.6	1369.1	1351.4	1328.8	1316.2	1331.3	1265.9
35°	1477.3	1469.7	1469.7	1467.2	1447.1	1434.5	1434.5	1394.2	1406.8	1439.5	1359.0
37.5°	1522.6	1520.0	1535.1	1547.7	1527.6	1535.1	1527.6	1510.0	1515.0	1572.9	1474.7
40°	1567.9	1585.5	1615.7	1620.7	1633.3	1643.4	1638.3	1635.8	1655.9	1749.1	1630.8
42.5°	1610.6	1625.7	1671.0	1711.3	1741.5	1774.2	1776.7	1776.7	1842.2	1975.6	1819.5
45°	1666.0	1678.6	1741.5	1822.0	1872.4	1895.0	1915.2	1937.8	2025.9	2184.4	2020.9
47.5°	1741.5	1751.6	1827.1	1927.7	2025.9	2038.5	2078.7	2103.9	2237.3	2398.4	2227.2
50°	1849.7	1842.2	1902.6	2048.5	2144.2	2204.6	2262.5	2307.8	2438.6	2614.8	2388.3
52.5°	1937.8	1937.8	1983.1	2176.9	2307.8	2365.6	2426.0	2489.0	2640.0	2831.2	2519.2
55°	2088.8	2073.7	2101.4	2302.7	2491.5	2546.8	2662.6	2715.5	2861.4	2992.3	2629.9
57.5°	2192.0	2199.5	2232.3	2468.8	2707.9	2775.8	2891.6	2929.4	3057.7	3160.9	2710.4
60°	2327.9	2302.7	2373.2	2652.5	2947.0	3042.6	3138.2	3160.9	3256.5	3269.1	2748.2
62.5°	2458.8	2453.7	2514.1	2836.2	3203.7	3271.6	3369.8	3394.9	3435.2	3354.7	2695.3
65°	2539.3	2572.0	2685.3	3037.6	3495.6	3571.1	3669.3	3618.9	3573.6	3279.2	2436.1
67.5°	2650.0	2665.1	2838.8	3256.5	3832.8	3946.1	4031.7	3832.8	3495.6	2969.6	2051.1
70°	2675.2	2715.5	2941.9	3485.5	4180.1	4295.9	4300.9	3759.9	3211.2	2416.0	1487.3
72.5°	2564.5	2592.1	2911.7	3581.2	4378.9	4464.5	4205.3	3400.0	2544.3	1522.6	810.4
75°	2156.8	2234.8	2534.3	3286.7	4014.0	3981.3	3563.6	2594.7	1527.6	674.5	342.3
77.5°	1502.4	1504.9	1817.0	2390.8	3004.9	2997.3	2541.8	1504.9	654.3	271.8	201.3
80°	666.9	714.7	903.5	1288.5	1824.6	1824.6	1482.3	747.4	327.2	176.2	138.4
82.5°	392.6	407.7	483.2	601.5	888.4	936.2	709.7	498.3	224.0	110.7	85.6
85°	289.4	314.6	359.9	362.4	420.3	427.8	392.6	432.9	153.5	60.4	70.5
87.5°	216.4	231.5	286.9	239.1	224.0	211.4	241.6	442.9	57.9	30.2	22.6
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°	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8	1172.8
2.5°	1160.2	1160.2	1155.1	1145.1	1145.1	1124.9	1130.0	1135.0	1122.4	1122.4	1124.9
5°	1142.6	1132.5	1119.9	1104.8	1094.7	1067.1	1062.0	1044.4	1041.9	1036.9	1029.3
7.5°	1107.3	1092.2	1069.6	1046.9	1014.2	989.0	958.8	933.7	923.6	916.1	913.5
10°	1074.6	1072.1	1034.3	989.0	938.7	890.9	845.6	812.9	792.7	780.2	777.6
12.5°	1074.6	1054.5	1001.6	938.7	865.7	795.3	737.4	692.1	664.4	644.3	636.7
15°	1069.6	1049.4	979.0	883.3	800.3	704.7	624.1	576.3	536.0	515.9	518.4
17.5°	1074.6	1044.4	946.3	843.1	727.3	624.1	528.5	470.6	430.3	415.2	412.7
20°	1077.1	1039.4	921.1	787.7	651.8	536.0	445.4	390.1	359.9	349.8	349.8
22.5°	1072.1	1024.3	883.3	722.3	586.4	463.1	387.6	339.7	319.6	307.0	312.1
25°	1094.7	1021.8	848.1	666.9	510.9	402.7	344.8	309.5	297.0	289.4	291.9
27.5°	1099.8	1021.8	820.4	604.0	445.4	357.4	312.1	289.4	279.3	274.3	271.8
30°	1119.9	1026.8	787.7	541.1	392.6	322.1	286.9	274.3	266.8	264.2	264.2
32.5°	1175.3	1041.9	752.5	488.2	347.3	291.9	269.3	259.2	254.2	251.7	254.2
35°	1240.7	1082.2	714.7	432.9	314.6	271.8	254.2	246.6	244.1	244.1	244.1
37.5°	1341.4	1142.6	682.0	387.6	286.9	251.7	239.1	236.6	234.0	236.6	236.6
40°	1457.1	1208.0	651.8	352.3	266.8	239.1	226.5	226.5	224.0	226.5	229.0
42.5°	1590.5	1288.5	621.6	317.1	249.1	229.0	218.9	216.4	213.9	218.9	221.5
45°	1774.2	1399.2	601.5	297.0	236.6	218.9	208.9	208.9	206.4	206.4	211.4
47.5°	1927.7	1504.9	601.5	276.8	229.0	211.4	201.3	201.3	196.3	198.8	198.8
50°	2056.1	1595.5	614.1	271.8	218.9	203.8	196.3	191.3	188.7	188.7	188.7
52.5°	2141.7	1650.9	624.1	266.8	213.9	193.8	188.7	186.2	181.2	178.7	181.2
55°	2227.2	1688.7	626.6	266.8	206.4	183.7	178.7	178.7	173.6	171.1	171.1
57.5°	2259.9	1673.6	591.4	261.7	201.3	176.2	171.1	168.6	166.1	163.6	163.6
60°	2244.8	1618.2	513.4	249.1	196.3	171.1	161.1	161.1	161.1	156.0	158.5
62.5°	2141.7	1429.4	412.7	229.0	188.7	161.1	151.0	156.0	156.0	153.5	153.5
65°	1869.9	1180.3	334.7	211.4	178.7	153.5	143.4	151.0	153.5	151.0	148.5
67.5°	1494.9	908.5	276.8	191.3	166.1	140.9	133.4	140.9	143.4	140.9	140.9
70°	1026.8	586.4	224.0	171.1	148.5	128.3	120.8	125.8	125.8	128.3	128.3
72.5°	531.0	317.1	183.7	146.0	128.3	115.8	108.2	108.2	105.7	105.7	105.7
75°	264.2	216.4	153.5	123.3	108.2	98.1	93.1	88.1	88.1	88.1	88.1
77.5°	183.7	166.1	125.8	98.1	88.1	80.5	80.5	73.0	73.0	73.0	73.0
80°	138.4	130.9	95.6	75.5	67.9	62.9	62.9	60.4	60.4	57.9	57.9
82.5°	98.1	105.7	73.0	55.4	50.3	47.8	47.8	45.3	45.3	40.3	40.3
85°	78.0	88.1	55.4	40.3	37.7	32.7	32.7	30.2	30.2	27.7	25.2
87.5°	22.6	47.8	22.6	15.1	15.1	15.1	15.1	12.6	12.6	10.1	10.1
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)