

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: P676924

Luminaire Tested: **CCW-SA-2C-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676924
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-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

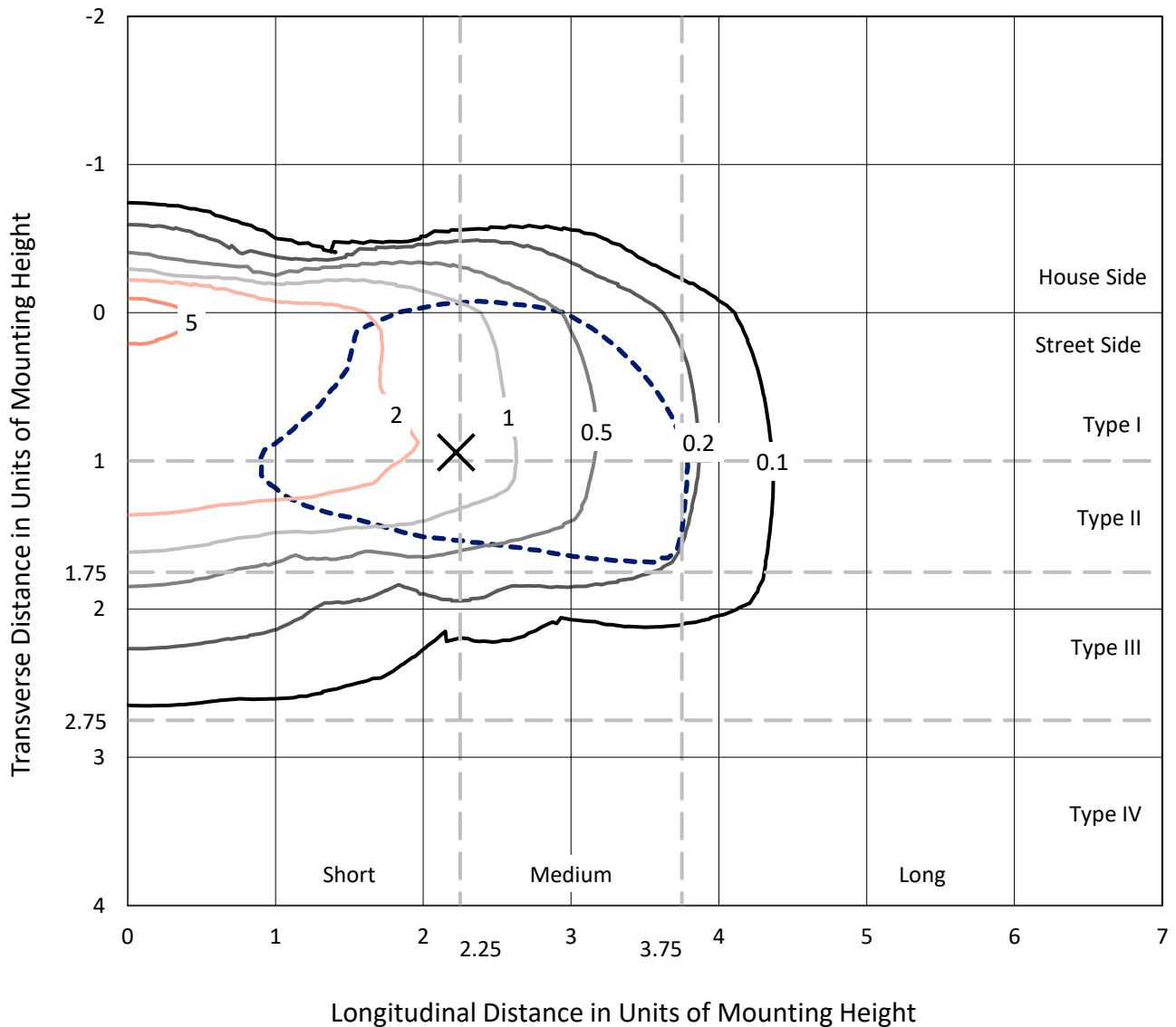
Lumens per Lamp: N/A
Luminaire Lumens: 6199.1 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
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

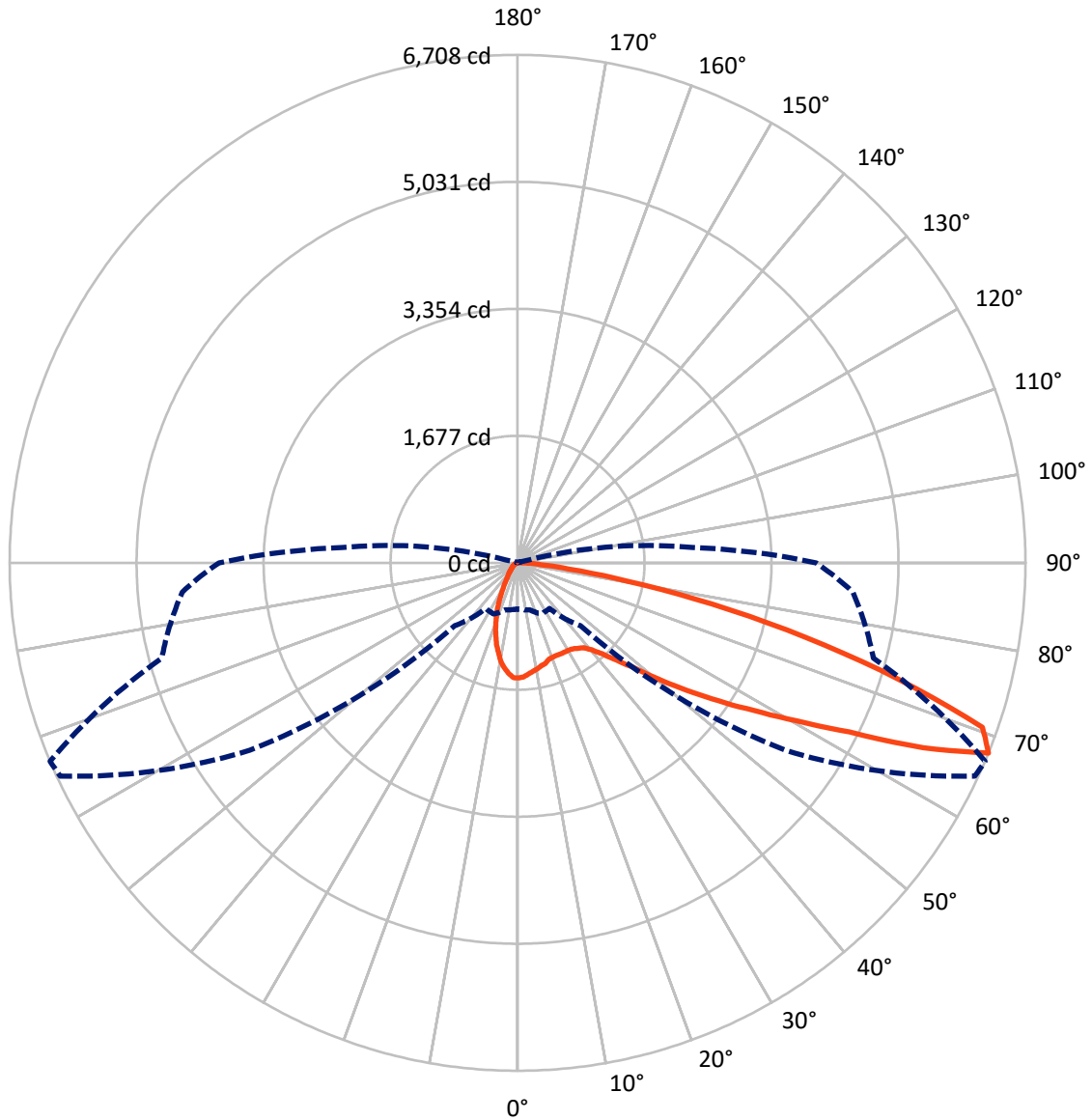
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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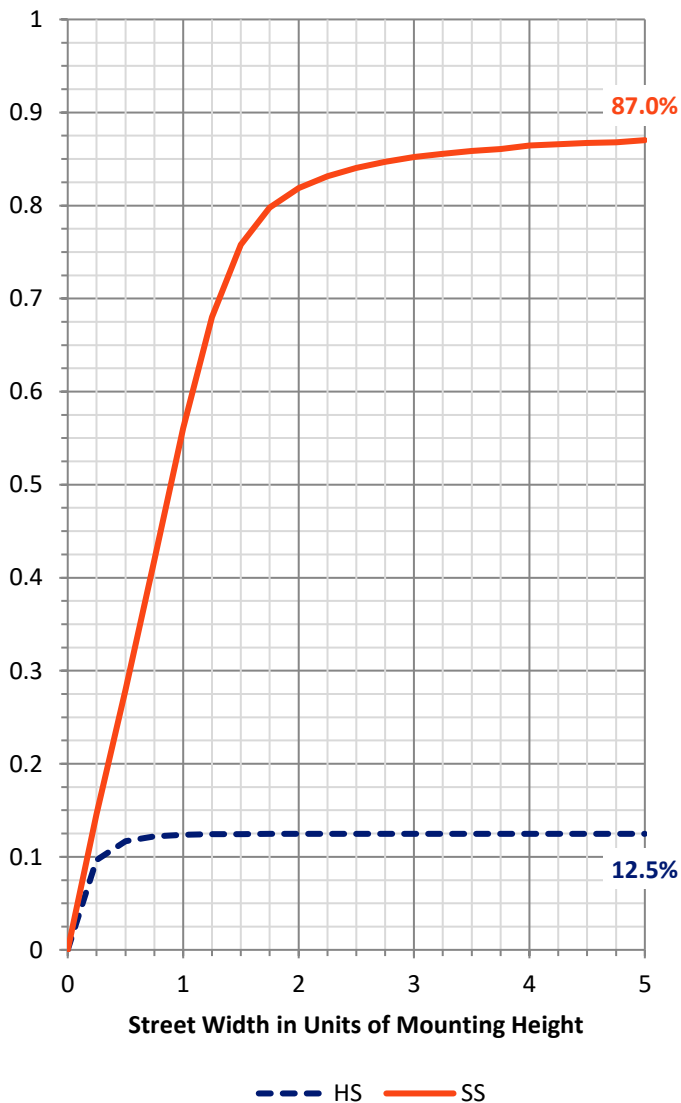
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.2	0.0	780.2
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	5418.9	0.0	5418.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	6199.1	0.0	6199.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	2.1
10°-20°	284.6	4.6
20°-30°	404.7	6.5
30°-40°	589.3	9.5
40°-50°	912.0	14.7
50°-60°	1399.7	22.6
60°-70°	1517.2	24.5
70°-80°	856.0	13.8
80°-90°	107.6	1.7
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°	6199.1	100.0
0°-180°	6199.1	100.0

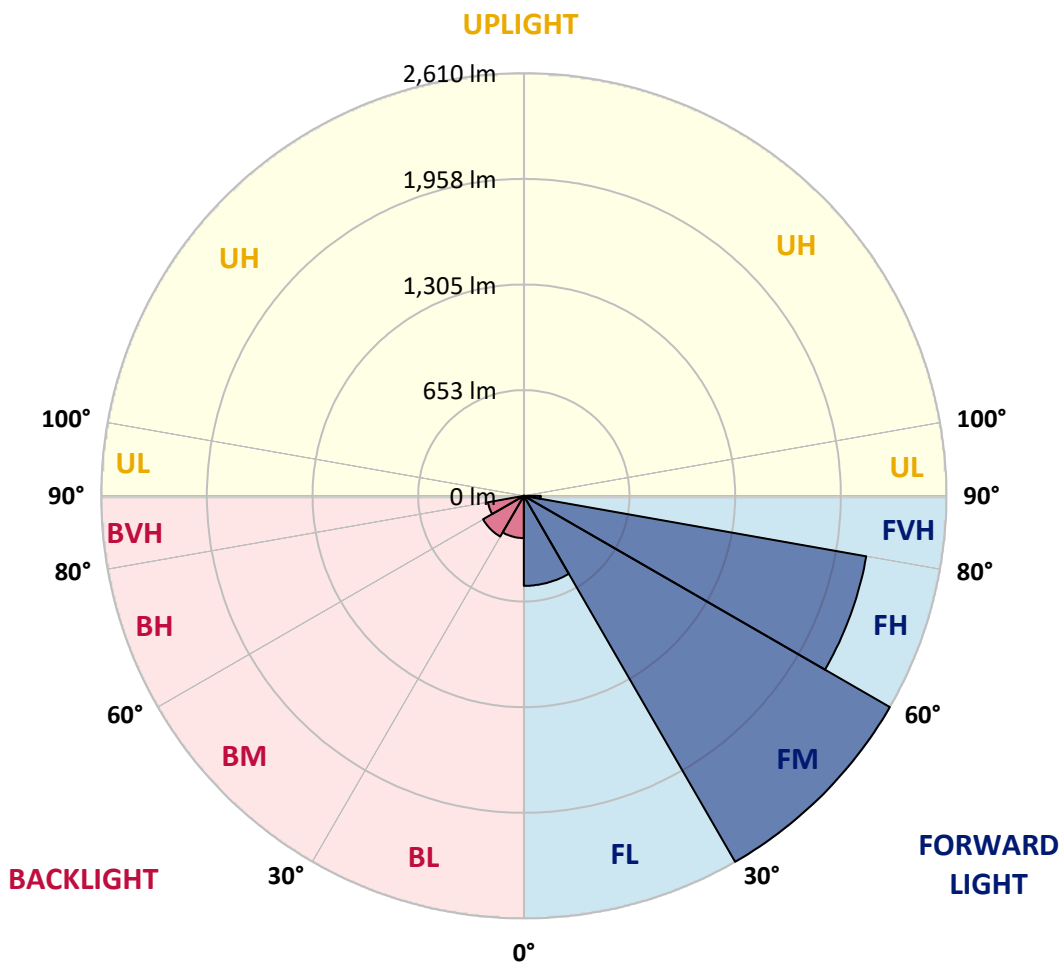


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.2	9.0			
FM (30°-60°)	2610.4	42.1			
FH (60°-80°)	2147.9	34.6			G2/5000
FVH (80°-90°)	104.5	1.7			G2/225
BL (0°-30°)	261.2	4.2	B1/500		
BM (30°-60°)	290.6	4.7	B1/1000		
BH (60°-80°)	225.4	3.6	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5
2.5°	1454.8	1462.3	1472.7	1487.7	1498.1	1492.1	1496.6	1522.0	1508.6	1520.5	1514.5
5°	1374.1	1381.6	1396.5	1395.1	1407.0	1429.4	1459.3	1492.1	1477.2	1513.1	1526.5
7.5°	1290.5	1287.5	1287.5	1318.9	1344.3	1375.6	1392.1	1445.8	1447.3	1478.7	1511.6
10°	1214.3	1223.3	1238.2	1250.2	1274.1	1318.9	1366.7	1408.5	1424.9	1487.7	1496.6
12.5°	1168.0	1172.5	1190.4	1200.9	1232.2	1275.6	1326.3	1380.1	1393.6	1457.8	1501.1
15°	1148.6	1159.1	1165.0	1184.5	1200.9	1241.2	1278.6	1339.8	1378.6	1429.4	1483.2
17.5°	1163.5	1159.1	1162.0	1168.0	1187.4	1223.3	1263.6	1324.9	1338.3	1423.4	1504.1
20°	1183.0	1184.5	1175.5	1172.5	1168.0	1202.4	1235.2	1314.4	1329.3	1423.4	1517.5
22.5°	1235.2	1218.8	1235.2	1211.3	1187.4	1202.4	1233.7	1315.9	1326.3	1421.9	1531.0
25°	1299.5	1302.4	1306.9	1256.1	1221.8	1211.3	1244.2	1320.4	1329.3	1433.9	1537.0
27.5°	1390.6	1404.0	1381.6	1356.2	1287.5	1235.2	1242.7	1317.4	1333.8	1427.9	1551.9
30°	1513.1	1502.6	1505.6	1447.3	1380.1	1298.0	1277.1	1324.9	1336.8	1435.4	1580.3
32.5°	1619.1	1607.2	1628.1	1607.2	1501.1	1387.6	1317.4	1339.8	1353.2	1453.3	1604.2
35°	1684.8	1699.8	1732.6	1755.0	1665.4	1504.1	1384.6	1380.1	1386.1	1462.3	1622.1
37.5°	1786.4	1813.3	1840.2	1896.9	1819.2	1647.5	1490.6	1432.4	1421.9	1505.6	1631.0
40°	1896.9	1889.4	1968.6	2035.8	2032.8	1849.1	1638.5	1525.0	1510.1	1574.3	1690.8
42.5°	1989.5	1982.1	2070.2	2180.7	2192.7	2043.3	1807.3	1656.4	1643.0	1680.3	1764.0
45°	2110.5	2116.5	2221.0	2352.5	2395.8	2300.2	2035.8	1844.6	1837.2	1825.2	1902.9
47.5°	2218.0	2250.9	2340.5	2495.9	2652.7	2566.1	2304.7	2119.5	2067.2	2040.3	2118.0
50°	2292.7	2322.6	2431.6	2597.4	2884.2	2939.5	2606.4	2412.2	2413.7	2348.0	2389.8
52.5°	2292.7	2291.2	2379.4	2597.4	3045.5	3329.3	3009.7	2781.1	2793.1	2724.4	2727.4
55°	2071.7	2067.2	2174.7	2406.2	3027.6	3704.2	3620.6	3248.7	3218.8	3085.9	3099.3
57.5°	1668.4	1678.8	1761.0	2038.8	2794.6	3879.0	4348.0	3774.4	3672.8	3398.0	3398.0
60°	1217.3	1208.4	1269.6	1463.8	2239.0	3813.3	4945.4	4394.3	4234.5	3656.4	3617.6
62.5°	926.1	924.6	941.0	1006.7	1420.4	3324.8	5202.3	5182.9	4923.0	3910.3	3855.1
65°	748.3	751.3	773.7	820.0	867.8	2267.3	5066.4	6123.9	5886.4	4288.2	4107.5
67.5°	610.9	618.4	645.3	745.3	734.9	1174.0	4315.1	6663.1	6707.9	4864.8	4446.6
70°	470.5	482.4	513.8	655.7	708.0	781.2	2991.8	6394.3	6513.7	5223.2	4241.9
72.5°	319.6	318.1	385.4	531.7	715.5	715.5	1665.4	5150.1	5263.6	4815.5	3684.8
75°	173.3	183.7	255.4	401.8	655.7	691.6	948.5	3768.4	3928.3	3744.5	2849.9
77.5°	94.1	95.6	141.9	262.9	545.2	660.2	633.3	2563.1	2625.8	2258.4	1560.8
80°	49.3	50.8	74.7	171.8	376.4	612.4	527.3	1528.0	1468.2	866.3	515.3
82.5°	22.4	23.9	37.3	107.5	240.5	482.4	455.6	737.9	681.1	242.0	156.8
85°	9.0	9.0	16.4	64.2	140.4	237.5	389.8	370.4	309.2	73.2	77.7
87.5°	3.0	3.0	4.5	25.4	56.8	141.9	207.6	195.7	134.4	26.9	41.8
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°	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5	1520.5
2.5°	1508.6	1525.0	1520.5	1517.5	1489.2	1486.2	1483.2	1456.3	1465.3	1442.9	1457.8
5°	1517.5	1526.5	1502.6	1457.8	1417.5	1372.7	1338.3	1314.4	1271.1	1254.7	1251.7
7.5°	1508.6	1508.6	1459.3	1387.6	1308.4	1235.2	1142.6	1076.9	1027.6	990.3	1003.7
10°	1496.6	1478.7	1427.9	1301.0	1157.6	1047.0	914.1	817.0	743.8	719.9	705.0
12.5°	1496.6	1465.3	1351.7	1178.5	993.3	826.0	667.7	540.7	470.5	428.7	422.7
15°	1483.2	1436.9	1296.5	1063.5	833.4	606.4	425.7	316.7	256.9	240.5	234.5
17.5°	1486.2	1430.9	1214.3	927.5	646.7	403.3	259.9	200.1	185.2	177.7	179.2
20°	1492.1	1430.9	1141.1	794.6	466.0	250.9	179.2	168.8	161.3	158.3	159.8
22.5°	1511.6	1402.5	1066.5	658.7	315.2	180.7	158.3	147.9	141.9	137.4	135.9
25°	1514.5	1398.0	994.8	524.3	216.6	152.4	138.9	127.0	119.5	113.5	112.0
27.5°	1510.1	1378.6	894.7	389.8	162.8	135.9	118.0	106.0	95.6	91.1	89.6
30°	1526.5	1342.8	809.6	280.8	137.4	118.0	100.1	86.6	77.7	71.7	71.7
32.5°	1528.0	1311.4	715.5	200.1	125.5	104.6	85.1	70.2	61.2	58.3	58.3
35°	1529.5	1283.0	610.9	152.4	112.0	89.6	70.2	58.3	52.3	47.8	47.8
37.5°	1534.0	1262.1	515.3	128.5	100.1	76.2	58.3	47.8	41.8	40.3	40.3
40°	1542.9	1233.7	415.2	113.5	86.6	64.2	49.3	40.3	34.4	32.9	31.4
42.5°	1566.8	1226.3	331.6	101.6	77.7	53.8	40.3	32.9	28.4	25.4	23.9
45°	1665.4	1245.7	256.9	94.1	65.7	44.8	34.4	26.9	20.9	19.4	17.9
47.5°	1826.7	1309.9	203.1	83.6	55.3	37.3	28.4	20.9	16.4	14.9	13.4
50°	2071.7	1456.3	165.8	74.7	46.3	31.4	22.4	16.4	11.9	10.5	10.5
52.5°	2392.8	1653.5	143.4	65.7	37.3	26.9	17.9	11.9	9.0	7.5	7.5
55°	2721.4	1886.5	134.4	56.8	31.4	22.4	13.4	9.0	6.0	4.5	4.5
57.5°	3023.1	2037.3	129.9	46.3	26.9	16.4	10.5	6.0	3.0	1.5	1.5
60°	3211.3	2147.8	116.5	37.3	20.9	13.4	7.5	3.0	1.5	0.0	0.0
62.5°	3459.3	2259.9	95.6	28.4	14.9	9.0	4.5	1.5	0.0	0.0	0.0
65°	3786.4	2385.3	74.7	22.4	11.9	6.0	3.0	1.5	0.0	0.0	0.0
67.5°	3943.2	2319.6	50.8	16.4	7.5	3.0	1.5	0.0	0.0	0.0	0.0
70°	3629.5	1953.7	35.8	11.9	4.5	1.5	1.5	0.0	0.0	0.0	0.0
72.5°	3051.5	1531.0	26.9	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	2249.4	957.4	20.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1193.4	357.0	14.9	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	352.5	104.6	10.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	116.5	31.4	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.7	11.9	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)