

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: P677053

Luminaire Tested: **CCW-SA-1E-835-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677053
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-835-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

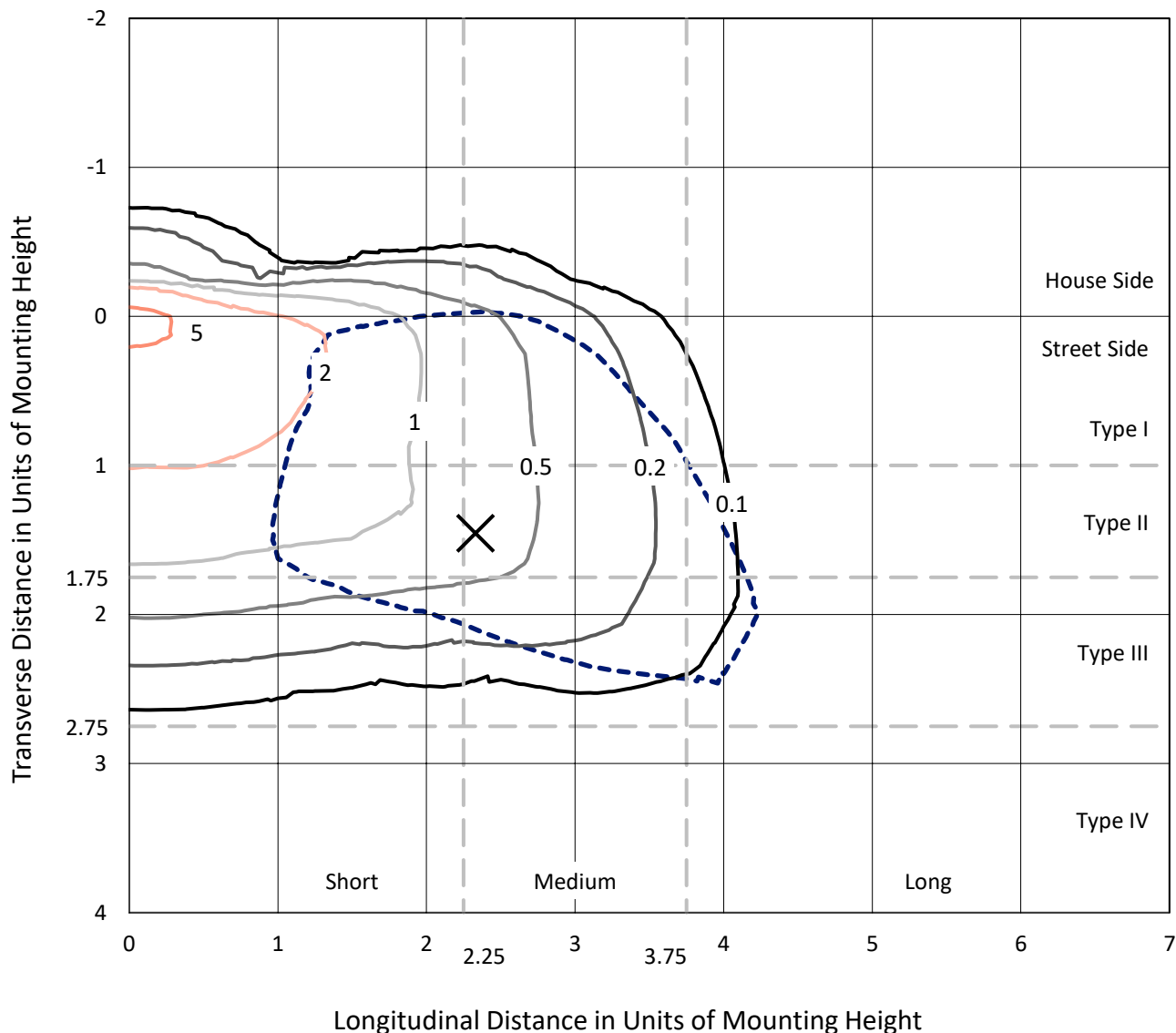
Lumens per Lamp: N/A
Luminaire Lumens: 4655.4 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

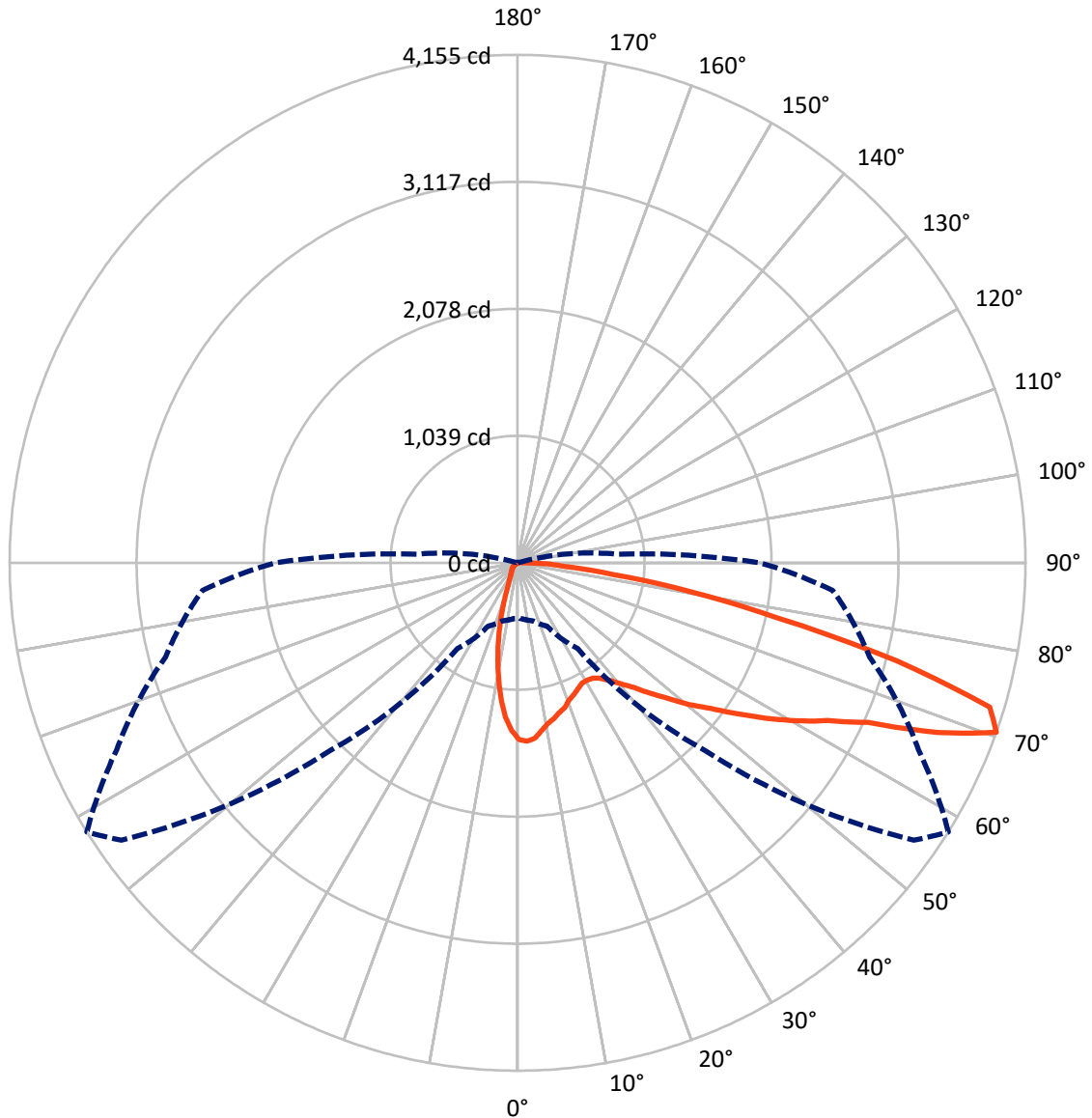
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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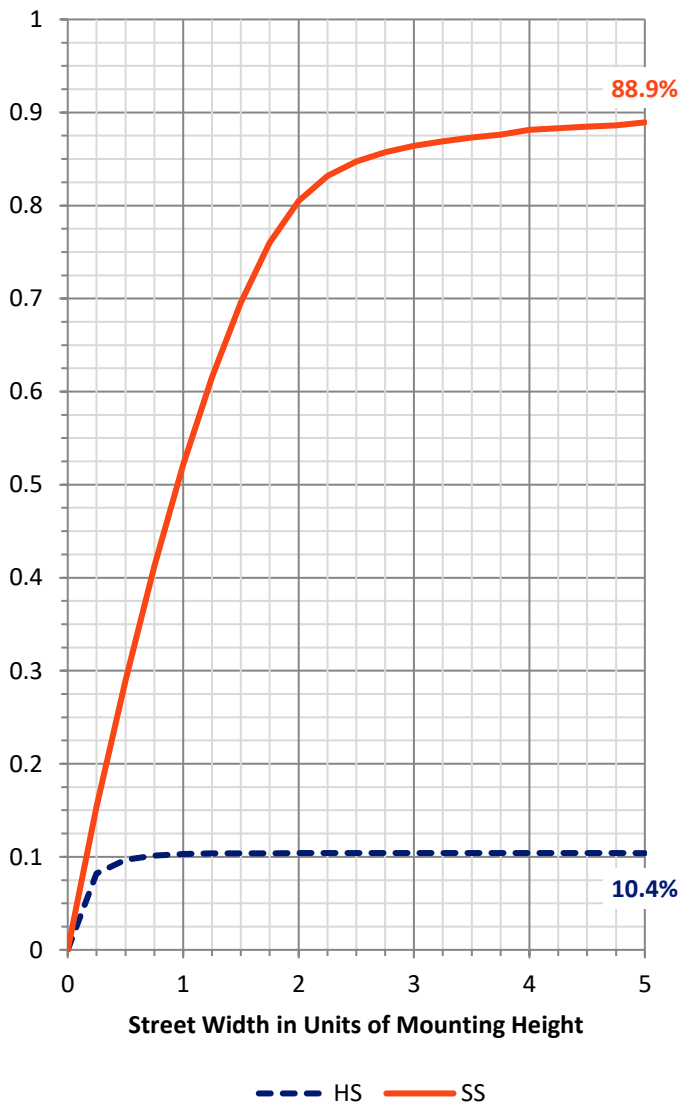
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.5	0.0	487.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4167.9	0.0	4167.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	4655.4	0.0	4655.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	2.5
10°-20°	245.5	5.3
20°-30°	328.7	7.1
30°-40°	444.3	9.5
40°-50°	637.7	13.7
50°-60°	939.8	20.2
60°-70°	1146.3	24.6
70°-80°	700.0	15.0
80°-90°	95.1	2.0
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°	4655.4	100.0
0°-180°	4655.4	100.0

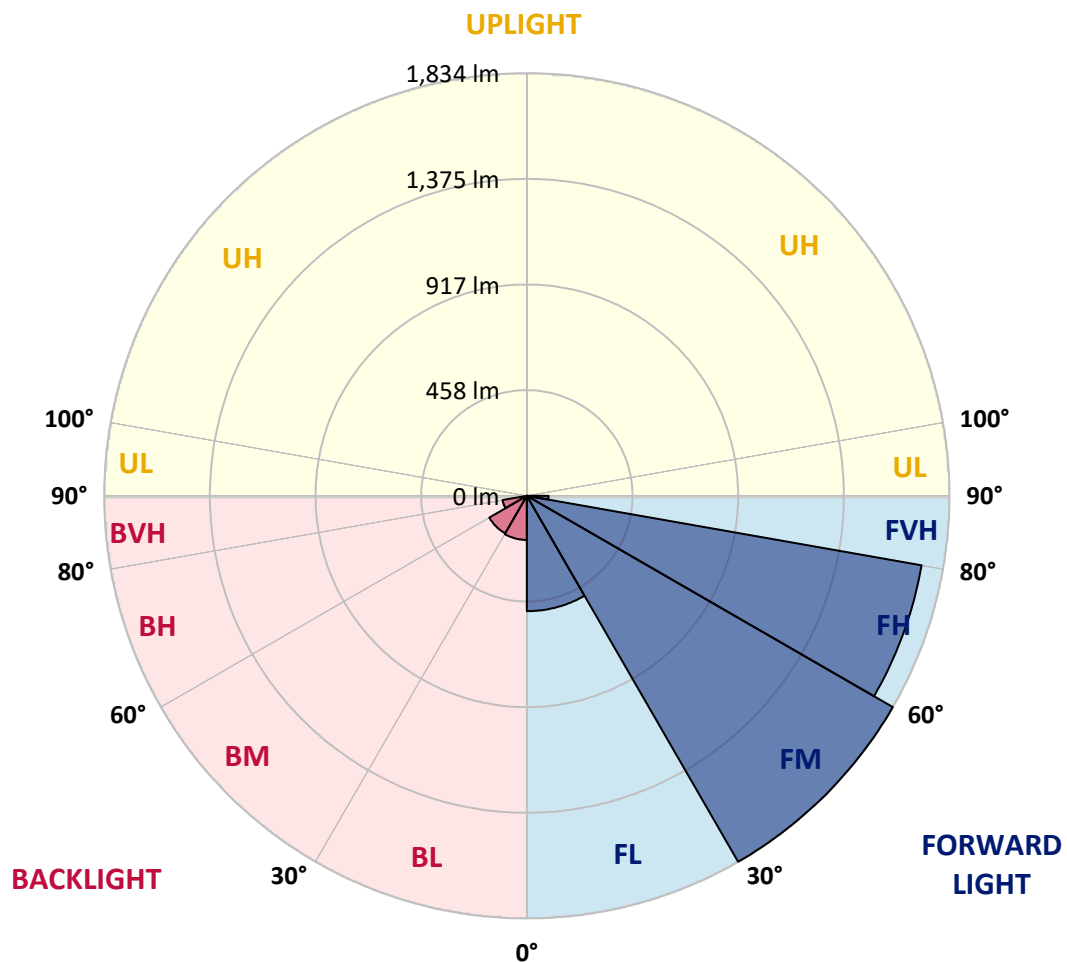


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.5	10.8			
FM (30°-60°)	1833.7	39.4			
FH (60°-80°)	1739.5	37.4			G1/1800
FVH (80°-90°)	94.2	2.0			G1/100
BL (0°-30°)	191.6	4.1	B1/500		
BM (30°-60°)	188.1	4.0	B0/220		
BH (60°-80°)	106.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.9	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2
2.5°	1471.4	1476.8	1463.7	1479.0	1464.8	1471.4	1463.7	1461.5	1462.6	1463.7	1455.0
5°	1402.6	1415.7	1421.2	1412.4	1433.2	1429.9	1443.0	1444.1	1438.6	1433.2	1434.3
7.5°	1312.0	1325.1	1330.6	1336.0	1356.8	1384.1	1401.5	1390.6	1399.3	1419.0	1389.5
10°	1246.5	1243.2	1242.2	1253.1	1292.4	1315.3	1344.8	1341.5	1363.3	1381.9	1357.9
12.5°	1165.7	1159.2	1178.8	1187.6	1222.5	1262.9	1285.8	1309.8	1331.7	1351.3	1324.0
15°	1105.7	1111.2	1118.8	1137.4	1162.5	1216.0	1249.8	1272.7	1312.0	1321.8	1310.9
17.5°	1057.7	1062.1	1073.0	1082.8	1114.4	1165.7	1219.2	1246.5	1288.0	1314.2	1280.4
20°	1058.8	1045.7	1045.7	1055.5	1073.0	1134.1	1190.9	1199.6	1256.3	1301.1	1278.2
22.5°	1059.9	1055.5	1045.7	1044.6	1052.2	1095.9	1153.7	1173.4	1234.5	1286.9	1259.6
25°	1075.1	1058.8	1059.9	1044.6	1047.9	1069.7	1115.5	1145.0	1214.9	1294.5	1249.8
27.5°	1088.2	1095.9	1080.6	1074.1	1055.5	1054.4	1092.6	1117.7	1205.0	1312.0	1256.3
30°	1117.7	1123.2	1123.2	1118.8	1101.3	1076.2	1085.0	1116.6	1185.4	1308.7	1245.4
32.5°	1166.8	1157.0	1170.1	1163.6	1140.6	1101.3	1109.0	1125.4	1197.4	1350.2	1262.9
35°	1183.2	1190.9	1208.3	1194.1	1186.5	1163.6	1148.3	1160.3	1214.9	1391.7	1289.1
37.5°	1233.4	1222.5	1234.5	1266.2	1273.8	1232.3	1202.9	1220.3	1280.4	1440.8	1313.1
40°	1237.8	1246.5	1268.3	1330.6	1338.2	1320.7	1296.7	1301.1	1345.8	1504.1	1373.1
42.5°	1259.6	1269.4	1314.2	1366.6	1408.1	1411.3	1393.9	1393.9	1432.1	1605.6	1439.7
45°	1302.2	1285.8	1343.7	1432.1	1492.1	1504.1	1527.0	1521.6	1552.1	1712.6	1564.2
47.5°	1318.6	1324.0	1387.3	1494.3	1563.1	1618.7	1656.9	1658.0	1673.3	1849.0	1725.7
50°	1372.0	1371.0	1447.4	1546.7	1648.2	1749.7	1823.9	1823.9	1822.8	1982.2	1864.3
52.5°	1443.0	1440.8	1499.8	1617.6	1749.7	1877.4	1975.7	1978.9	2004.0	2145.9	2023.7
55°	1558.7	1548.9	1605.6	1693.0	1851.2	2006.2	2176.5	2177.6	2157.9	2262.7	2138.3
57.5°	1655.8	1654.7	1701.7	1785.7	1964.7	2172.1	2369.7	2399.2	2336.9	2382.8	2230.0
60°	1630.7	1644.9	1742.1	1866.5	2084.8	2379.5	2578.2	2624.0	2524.7	2464.7	2298.7
62.5°	1474.6	1507.4	1613.3	1811.9	2186.3	2680.8	2865.2	2844.5	2622.9	2534.5	2382.8
65°	1061.0	1093.7	1224.7	1522.7	2068.4	2893.6	3242.9	3149.0	2797.6	2638.2	2495.2
67.5°	624.4	637.4	719.3	971.5	1546.7	2777.9	3701.4	3709.0	3141.4	2797.6	2689.5
70°	450.8	460.6	492.3	573.0	856.8	2177.6	3956.8	4155.4	3618.4	2980.9	2586.9
72.5°	346.0	346.0	399.5	477.0	545.8	1304.4	3641.3	4039.7	3722.1	2805.2	2084.8
75°	248.9	255.4	313.3	410.4	503.2	654.9	2683.0	3205.8	3154.5	2273.6	1456.1
77.5°	143.0	146.3	220.5	343.8	472.6	449.7	1658.0	2173.2	2234.3	1423.3	630.9
80°	73.1	75.3	123.3	271.8	427.9	391.9	988.9	1431.0	1213.8	413.7	146.3
82.5°	36.0	36.0	55.7	173.6	363.5	347.1	581.8	790.3	430.1	95.0	61.1
85°	12.0	13.1	25.1	98.2	263.1	209.6	355.8	375.5	144.1	36.0	33.8
87.5°	3.3	4.4	6.5	36.0	114.6	137.5	211.8	240.1	58.9	14.2	16.4
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°	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2
2.5°	1422.3	1414.6	1405.9	1384.1	1366.6	1343.7	1328.4	1316.4	1293.5	1297.8	1288.0
5°	1408.1	1393.9	1343.7	1295.6	1252.0	1185.4	1139.5	1110.1	1086.1	1062.1	1079.5
7.5°	1383.0	1349.1	1270.5	1181.0	1088.2	1000.9	913.6	861.2	823.0	788.1	787.0
10°	1340.4	1285.8	1162.5	1045.7	902.7	788.1	676.7	589.4	532.7	491.2	490.1
12.5°	1292.4	1235.6	1080.6	890.7	725.9	564.3	431.2	338.4	284.9	252.1	247.8
15°	1261.8	1178.8	978.0	753.2	549.0	367.8	239.0	181.2	160.5	152.8	152.8
17.5°	1222.5	1127.5	876.5	610.2	380.9	212.8	155.0	139.7	138.6	136.4	134.3
20°	1206.1	1088.2	785.9	486.8	241.2	150.6	133.2	129.9	129.9	127.7	125.5
22.5°	1162.5	1031.5	689.8	356.9	160.5	132.1	125.5	121.2	119.0	116.8	119.0
25°	1142.8	991.1	599.2	246.7	131.0	117.9	114.6	110.2	107.0	105.9	105.9
27.5°	1129.7	950.7	510.8	171.4	115.7	108.1	101.5	98.2	93.9	89.5	89.5
30°	1119.9	919.1	425.7	126.6	103.7	96.1	90.6	83.0	77.5	73.1	73.1
32.5°	1106.8	882.0	340.6	108.1	93.9	86.2	76.4	69.9	62.2	58.9	58.9
35°	1111.2	856.8	267.4	96.1	84.0	74.2	65.5	56.8	49.1	45.8	44.8
37.5°	1119.9	838.3	203.0	86.2	75.3	64.4	54.6	44.8	40.4	36.0	36.0
40°	1157.0	832.8	149.5	79.7	68.8	56.8	45.8	37.1	32.7	29.5	28.4
42.5°	1219.2	840.5	115.7	72.0	62.2	48.0	38.2	30.6	26.2	22.9	21.8
45°	1298.9	869.9	95.0	67.7	54.6	40.4	30.6	25.1	19.6	17.5	17.5
47.5°	1414.6	915.8	83.0	62.2	48.0	33.8	26.2	19.6	15.3	13.1	13.1
50°	1545.6	968.2	73.1	55.7	41.5	28.4	20.7	15.3	10.9	9.8	9.8
52.5°	1676.6	1034.8	67.7	51.3	36.0	22.9	16.4	10.9	7.6	6.5	6.5
55°	1814.1	1093.7	61.1	48.0	29.5	18.6	12.0	6.5	4.4	3.3	3.3
57.5°	1910.2	1116.6	53.5	41.5	22.9	14.2	8.7	4.4	2.2	1.1	1.1
60°	1978.9	1119.9	45.8	33.8	17.5	10.9	5.5	2.2	1.1	0.0	0.0
62.5°	2036.8	1126.5	39.3	26.2	13.1	7.6	3.3	1.1	0.0	0.0	0.0
65°	2151.4	1121.0	31.7	20.7	8.7	4.4	2.2	0.0	0.0	0.0	0.0
67.5°	2242.0	1066.4	25.1	14.2	5.5	2.2	1.1	0.0	0.0	0.0	0.0
70°	1983.3	813.2	19.6	9.8	3.3	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1557.6	542.5	13.1	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1021.7	269.6	9.8	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	397.3	70.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	96.1	24.0	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.5	8.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	2.2	1.1	1.1	0.0	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)