

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: P677201

Luminaire Tested: **CCW-SA-2C-835-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677201
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-835-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

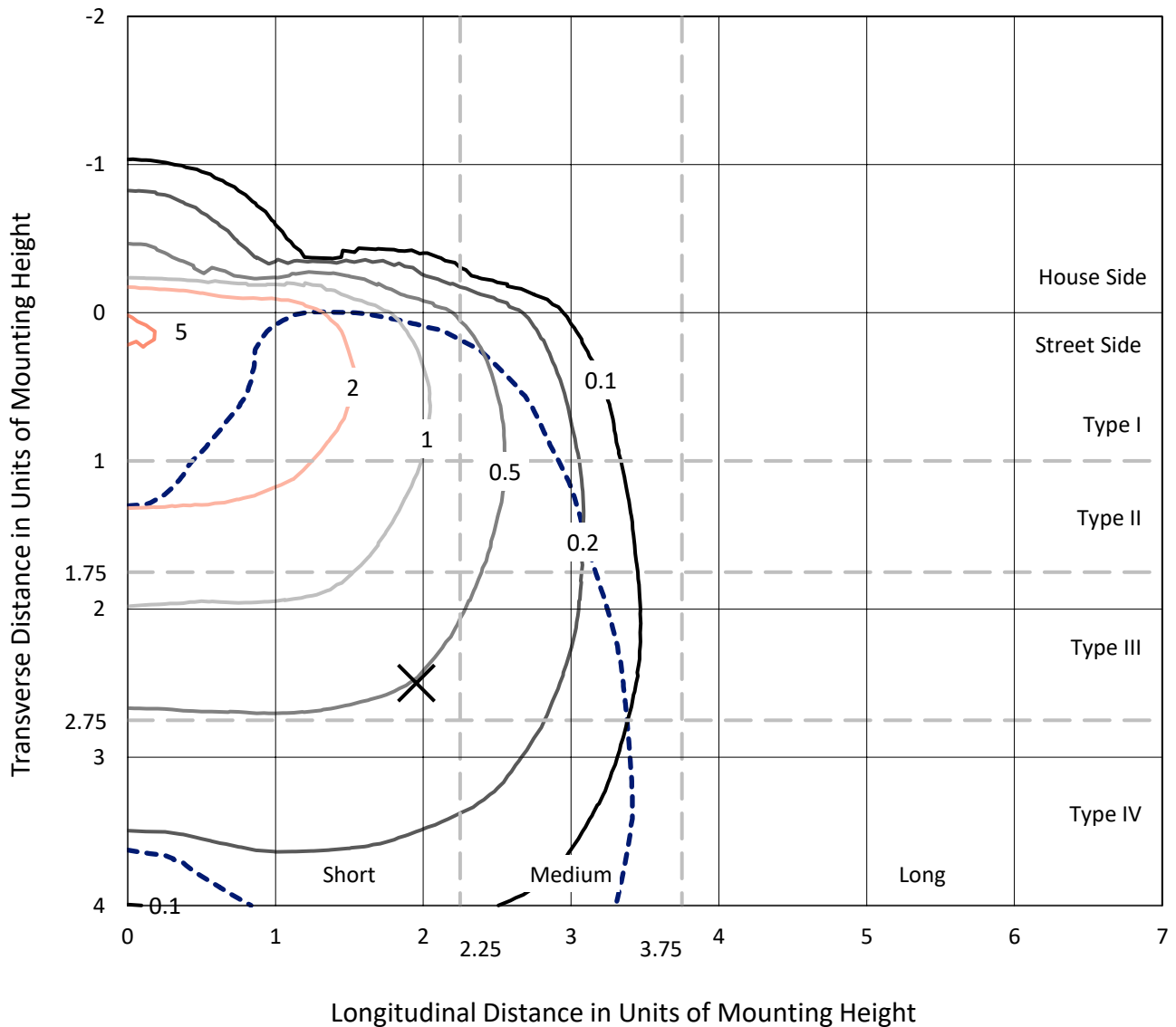
Lumens per Lamp: N/A
Luminaire Lumens: 6154.1 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P677201
 CATALOG NUMBER: CCW-SA-2C-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

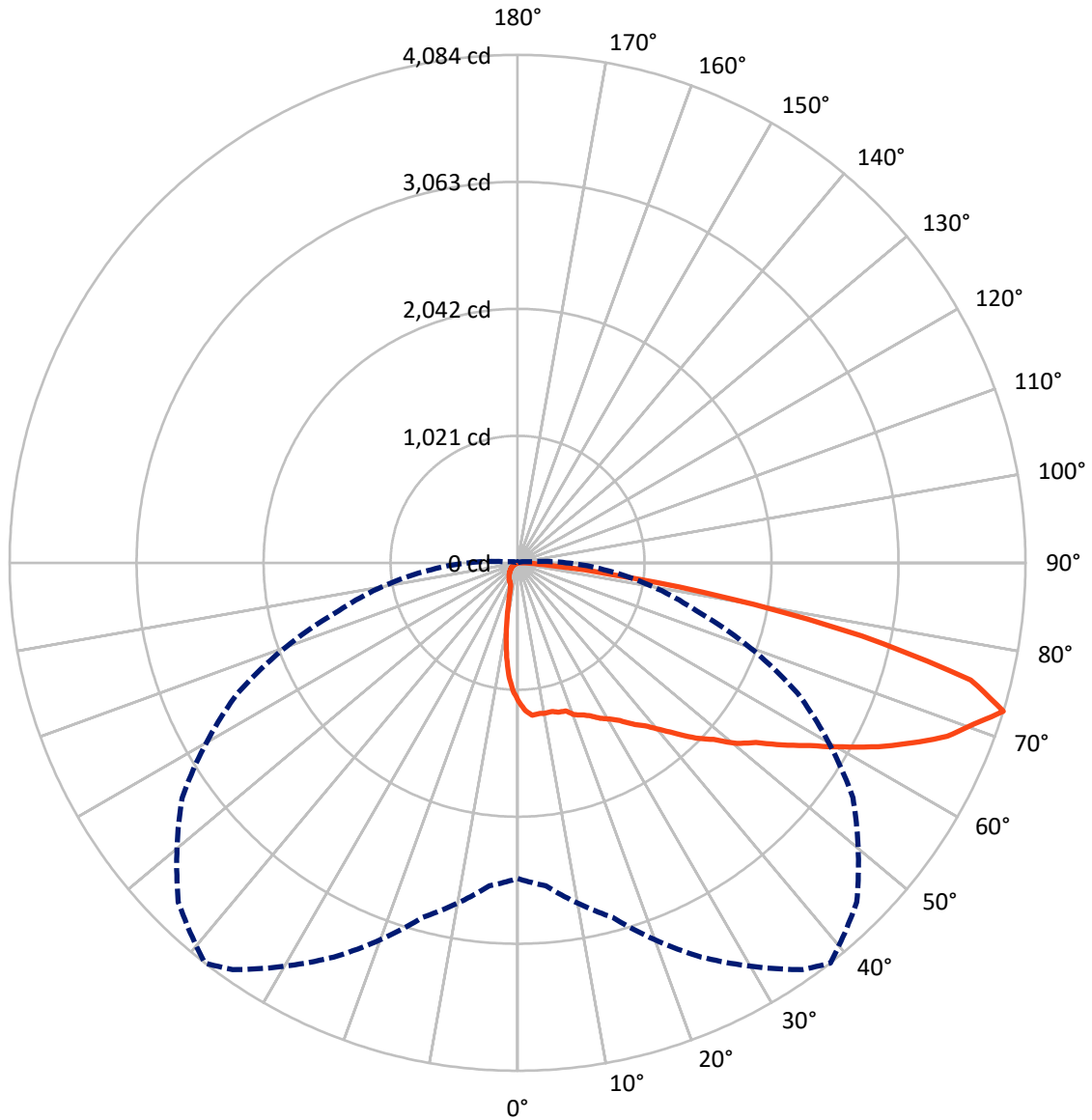
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P677201
CATALOG NUMBER: CCW-SA-2C-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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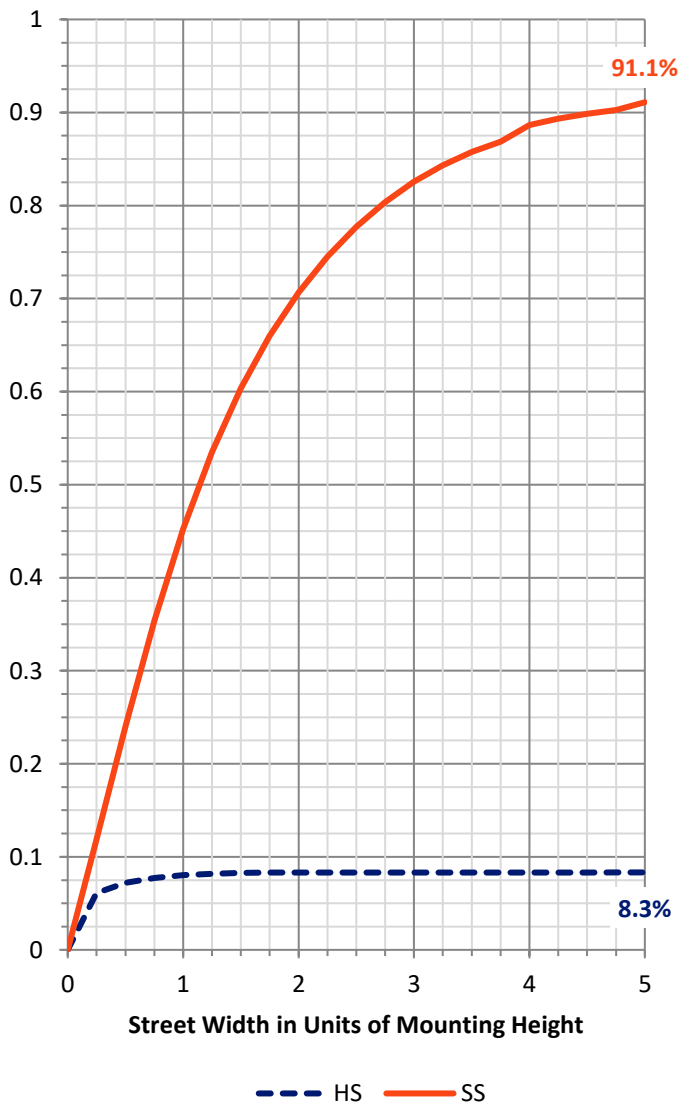
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.4	0.0	515.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5638.7	0.0	5638.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	6154.1	0.0	6154.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.6
10°-20°	238.5	3.9
20°-30°	382.3	6.2
30°-40°	577.3	9.4
40°-50°	878.6	14.3
50°-60°	1236.9	20.1
60°-70°	1510.9	24.6
70°-80°	1097.1	17.8
80°-90°	135.1	2.2
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°	6154.1	100.0
0°-180°	6154.1	100.0

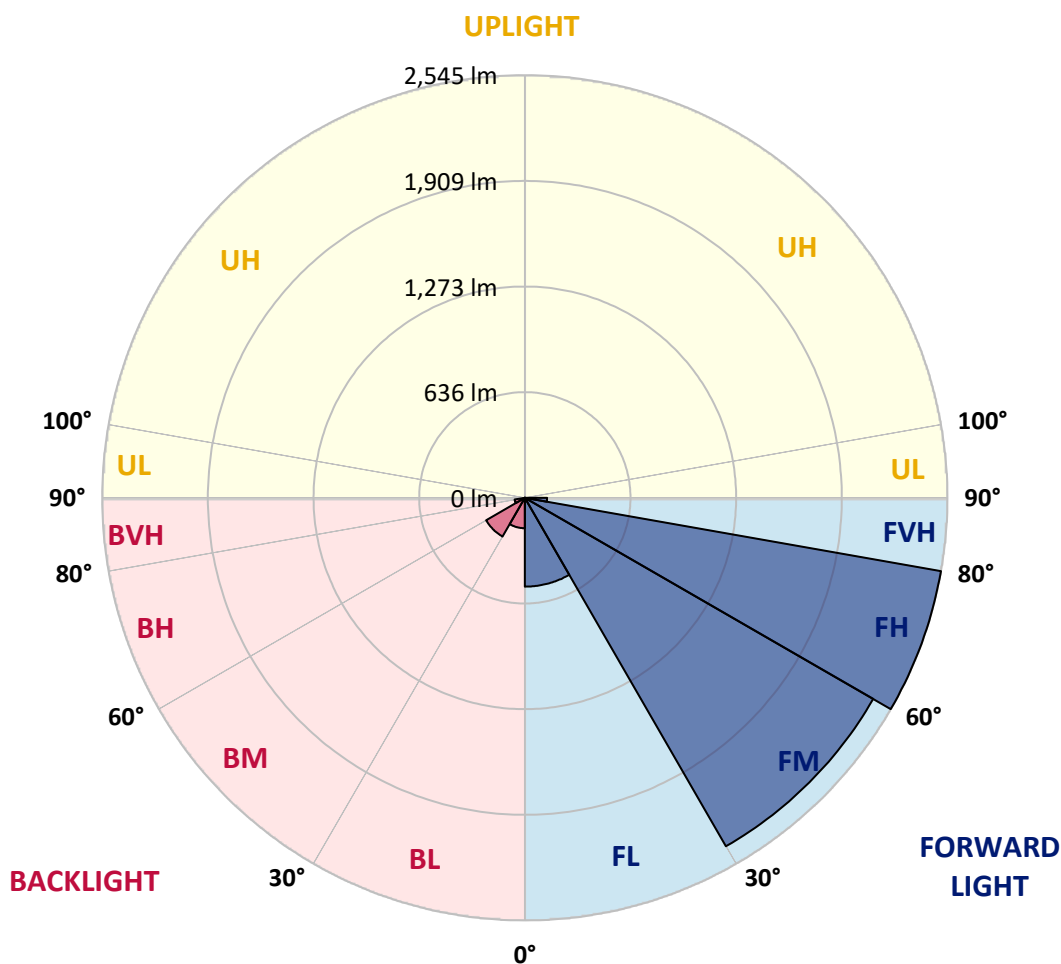


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.3	8.7			
FM (30°-60°)	2423.5	39.4			
FH (60°-80°)	2545.5	41.4			G2/5000
FVH (80°-90°)	134.4	2.2			G2/225
BL (0°-30°)	183.0	3.0	B1/500		
BM (30°-60°)	269.2	4.4	B1/1000		
BH (60°-80°)	62.5	1.0	B0/110		G0/110
BVH (80°-90°)	0.7	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 IV Short





REPORT NUMBER: P677201

CATALOG NUMBER: CCW-SA-2C-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1222.6	1222.6	1234.1	1222.6	1218.3	1190.8	1192.3	1177.9	1163.4	1143.2	1124.4
5°	1237.0	1247.1	1254.4	1244.3	1228.4	1231.3	1241.4	1213.9	1175.0	1150.4	1108.6
7.5°	1231.3	1252.9	1247.1	1241.4	1231.3	1224.0	1209.6	1198.1	1179.3	1156.2	1107.1
10°	1226.9	1234.1	1235.6	1231.3	1209.6	1229.8	1213.9	1195.2	1172.1	1144.7	1084.0
12.5°	1211.1	1211.1	1224.0	1213.9	1216.8	1226.9	1219.7	1215.4	1190.8	1167.7	1114.3
15°	1193.7	1199.5	1219.7	1235.6	1250.0	1245.7	1241.4	1228.4	1206.7	1180.7	1124.4
17.5°	1198.1	1200.9	1232.7	1261.6	1254.4	1251.5	1274.6	1247.1	1225.5	1196.6	1133.1
20°	1213.9	1222.6	1258.7	1296.2	1303.4	1303.4	1294.8	1278.9	1248.6	1209.6	1149.0
22.5°	1229.8	1232.7	1291.9	1339.5	1346.7	1328.0	1335.2	1289.0	1260.1	1238.5	1164.9
25°	1290.4	1284.7	1348.2	1385.7	1381.4	1362.6	1355.4	1315.0	1303.4	1264.5	1199.5
27.5°	1372.7	1348.2	1410.2	1433.3	1410.2	1416.0	1395.8	1352.5	1328.0	1304.9	1215.4
30°	1423.2	1437.7	1470.9	1494.0	1455.0	1456.4	1446.3	1398.7	1361.2	1366.9	1268.8
32.5°	1501.2	1511.3	1535.8	1545.9	1515.6	1512.7	1502.6	1465.1	1437.7	1431.9	1341.0
35°	1584.9	1603.7	1605.1	1608.0	1580.6	1592.1	1577.7	1524.3	1538.7	1548.8	1427.6
37.5°	1667.2	1649.9	1678.7	1691.7	1661.4	1661.4	1665.7	1629.7	1655.6	1685.9	1550.3
40°	1698.9	1706.2	1756.7	1746.6	1782.7	1761.0	1776.9	1768.2	1789.9	1859.2	1723.5
42.5°	1732.1	1740.8	1808.6	1827.4	1870.7	1877.9	1901.0	1902.5	1966.0	2080.0	1889.5
45°	1795.6	1781.2	1873.6	1919.8	1990.5	2010.7	2038.1	2061.2	2160.8	2295.1	2078.6
47.5°	1853.4	1833.2	1938.5	2030.9	2117.5	2121.9	2196.9	2221.5	2339.8	2492.8	2266.2
50°	1934.2	1941.4	1986.2	2145.0	2233.0	2283.5	2335.5	2416.3	2547.7	2710.8	2401.9
52.5°	2017.9	2010.7	2085.8	2241.7	2380.2	2399.0	2515.9	2606.9	2749.8	2872.5	2462.5
55°	2120.4	2129.1	2158.0	2362.9	2539.0	2583.8	2715.1	2810.4	2966.3	2941.7	2482.7
57.5°	2222.9	2214.2	2279.2	2498.6	2738.2	2771.4	2946.1	3002.4	3107.7	2987.9	2432.2
60°	2323.9	2339.8	2367.3	2651.6	2956.2	3005.3	3143.8	3172.7	3195.8	3009.6	2393.2
62.5°	2439.4	2401.9	2487.1	2813.3	3152.5	3255.0	3364.7	3250.6	3230.4	2970.6	2303.7
65°	2497.2	2508.7	2619.9	2998.0	3413.8	3488.8	3503.2	3356.0	3252.1	2884.0	2220.0
67.5°	2586.7	2602.5	2744.0	3187.1	3682.2	3724.1	3672.1	3451.3	3233.3	2771.4	1918.3
70°	2598.2	2637.2	2910.0	3384.9	3851.1	3887.2	3846.8	3514.8	3081.8	2328.3	1420.4
72.5°	2537.6	2606.9	2950.4	3497.5	3992.6	4083.5	3856.9	3291.1	2484.2	1485.3	727.5
75°	1916.9	1974.6	2700.7	3330.0	3741.4	3763.1	3386.3	2511.6	1414.6	506.6	186.2
77.5°	993.1	1092.7	1802.9	2544.8	2850.8	2827.7	2357.1	1479.5	486.4	132.8	75.1
80°	570.2	594.7	788.1	1429.0	1792.8	1704.7	1303.4	638.0	213.6	66.4	49.1
82.5°	281.5	316.1	424.4	639.4	896.4	737.6	489.3	382.5	119.8	36.1	43.3
85°	60.6	63.5	216.5	306.0	363.7	239.6	167.4	321.9	43.3	21.7	41.9
87.5°	43.3	41.9	60.6	137.1	101.0	62.1	99.6	168.9	10.1	10.1	8.7
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°	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9	1112.9
2.5°	1112.9	1099.9	1085.5	1058.0	1050.8	1046.5	1022.0	1020.5	1016.2	1006.1	1001.8
5°	1082.6	1060.9	1033.5	1004.6	981.5	939.7	889.2	863.2	831.4	832.9	822.8
7.5°	1078.3	1037.8	998.9	938.2	864.6	786.7	708.7	658.2	622.1	600.5	604.8
10°	1058.0	1027.7	964.2	851.6	733.3	614.9	515.3	440.3	396.9	363.7	373.9
12.5°	1066.7	1007.5	918.0	767.9	599.0	453.2	329.1	256.9	225.2	213.6	216.5
15°	1060.9	1007.5	890.6	677.0	470.6	307.5	213.6	190.5	184.8	184.8	181.9
17.5°	1078.3	1019.1	844.4	587.5	337.8	205.0	183.3	179.0	174.7	174.7	174.7
20°	1102.8	1024.8	812.7	487.9	238.2	180.4	171.8	168.9	167.4	167.4	166.0
22.5°	1104.2	1019.1	753.5	378.2	183.3	170.3	163.1	161.7	161.7	158.8	158.8
25°	1112.9	1024.8	690.0	284.4	170.3	160.2	154.4	153.0	154.4	153.0	151.6
27.5°	1134.5	1035.0	626.5	207.9	160.2	151.6	147.2	145.8	145.8	145.8	142.9
30°	1162.0	1035.0	555.7	171.8	151.6	142.9	138.6	137.1	135.7	135.7	135.7
32.5°	1219.7	1068.2	469.1	153.0	140.0	132.8	128.5	128.5	127.0	127.0	125.6
35°	1291.9	1091.2	381.1	141.5	129.9	122.7	118.4	118.4	116.9	116.9	115.5
37.5°	1381.4	1149.0	291.6	132.8	119.8	112.6	108.3	108.3	108.3	106.8	106.8
40°	1508.4	1208.2	216.5	121.2	109.7	102.5	99.6	98.2	96.7	96.7	93.8
42.5°	1644.1	1299.1	161.7	112.6	101.0	95.3	90.9	86.6	86.6	82.3	82.3
45°	1791.3	1378.5	131.4	102.5	92.4	85.2	80.8	77.9	73.6	70.7	70.7
47.5°	1935.7	1427.6	115.5	90.9	83.7	77.9	73.6	67.8	62.1	60.6	59.2
50°	2052.6	1442.0	102.5	82.3	76.5	70.7	65.0	57.7	52.0	49.1	47.6
52.5°	2052.6	1362.6	92.4	73.6	69.3	63.5	56.3	47.6	40.4	37.5	36.1
55°	2052.6	1237.0	82.3	67.8	62.1	57.7	47.6	39.0	31.8	27.4	26.0
57.5°	2022.3	1085.5	73.6	60.6	54.9	49.1	40.4	30.3	23.1	18.8	18.8
60°	1938.5	926.7	63.5	53.4	47.6	40.4	31.8	21.7	14.4	10.1	10.1
62.5°	1831.7	737.6	54.9	44.7	39.0	33.2	24.5	14.4	5.8	2.9	2.9
65°	1645.5	544.2	47.6	37.5	30.3	24.5	15.9	5.8	0.0	0.0	0.0
67.5°	1358.3	363.7	37.5	30.3	26.0	17.3	10.1	1.4	0.0	0.0	0.0
70°	955.6	206.4	28.9	21.7	18.8	11.5	2.9	0.0	0.0	0.0	0.0
72.5°	392.6	90.9	20.2	15.9	13.0	5.8	0.0	0.0	0.0	0.0	0.0
75°	106.8	40.4	13.0	8.7	7.2	1.4	0.0	0.0	0.0	0.0	0.0
77.5°	62.1	27.4	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	49.1	13.0	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.0	0.0	0.0	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)