

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: P677042

Luminaire Tested: **CCW-SA-1E-830-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677042
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

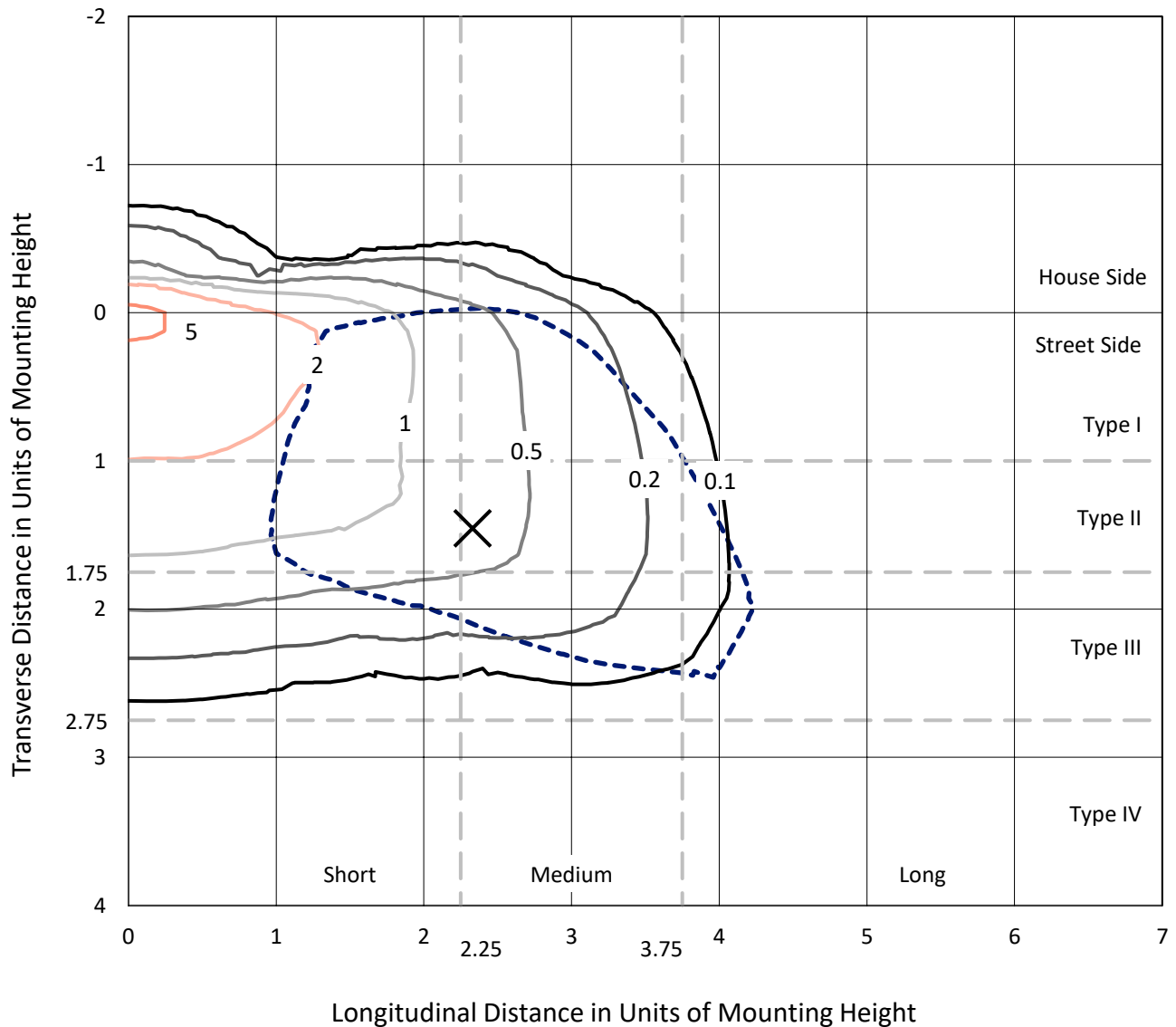
Lumens per Lamp: N/A
Luminaire Lumens: 4489.3 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P677042
 CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

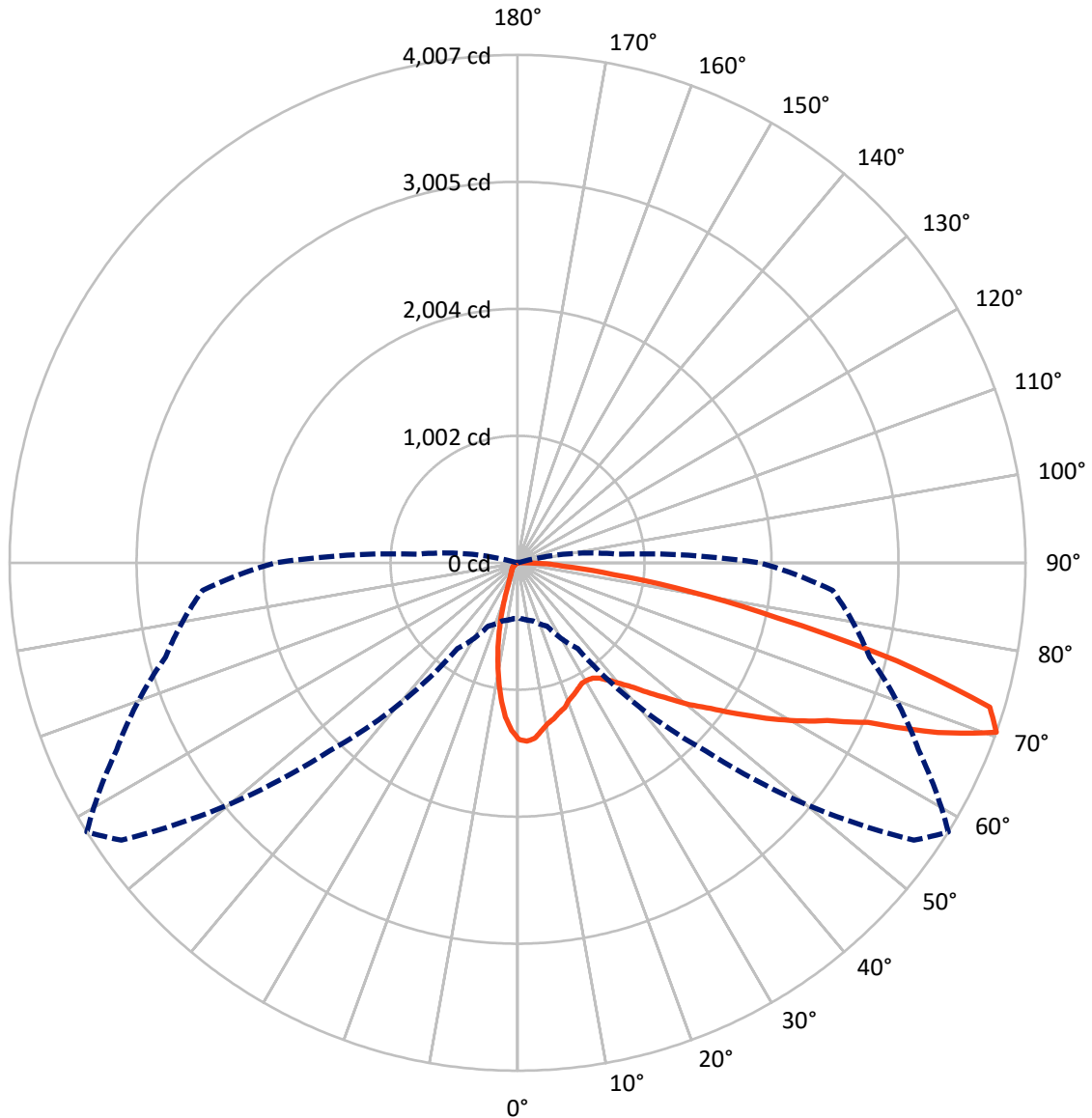
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P677042
CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P677042
 CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

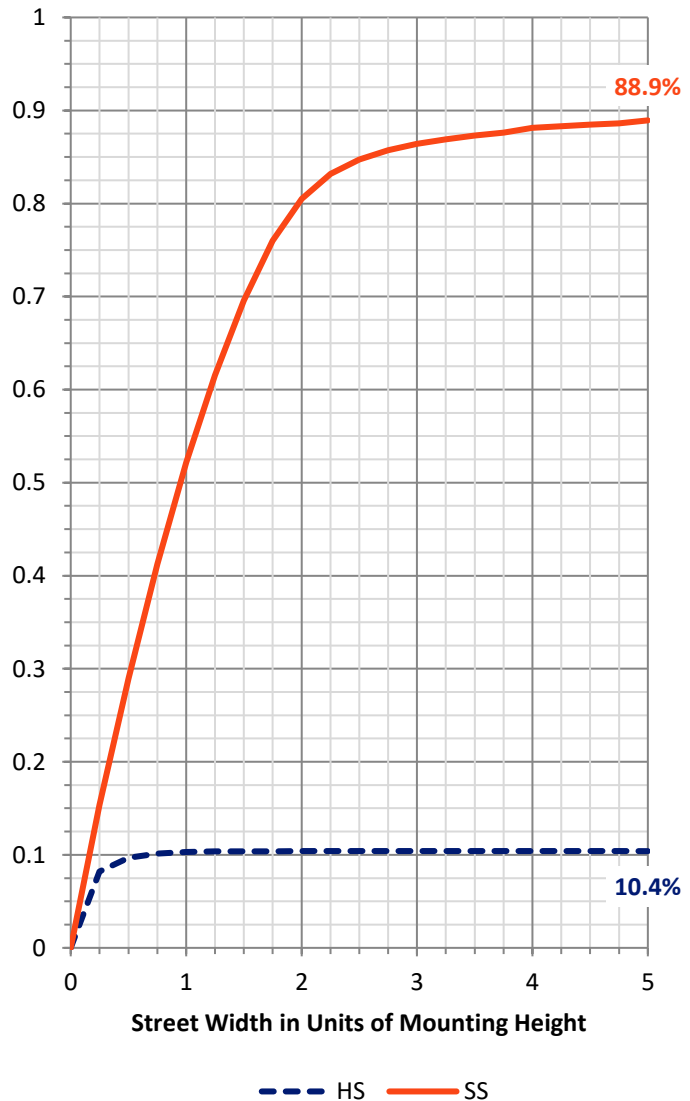
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	470.1	0.0	470.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4019.2	0.0	4019.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	4489.3	0.0	4489.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	2.5
10°-20°	236.7	5.3
20°-30°	317.0	7.1
30°-40°	428.5	9.5
40°-50°	615.0	13.7
50°-60°	906.3	20.2
60°-70°	1105.4	24.6
70°-80°	675.0	15.0
80°-90°	91.7	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°	4489.3	100.0
0°-180°	4489.3	100.0

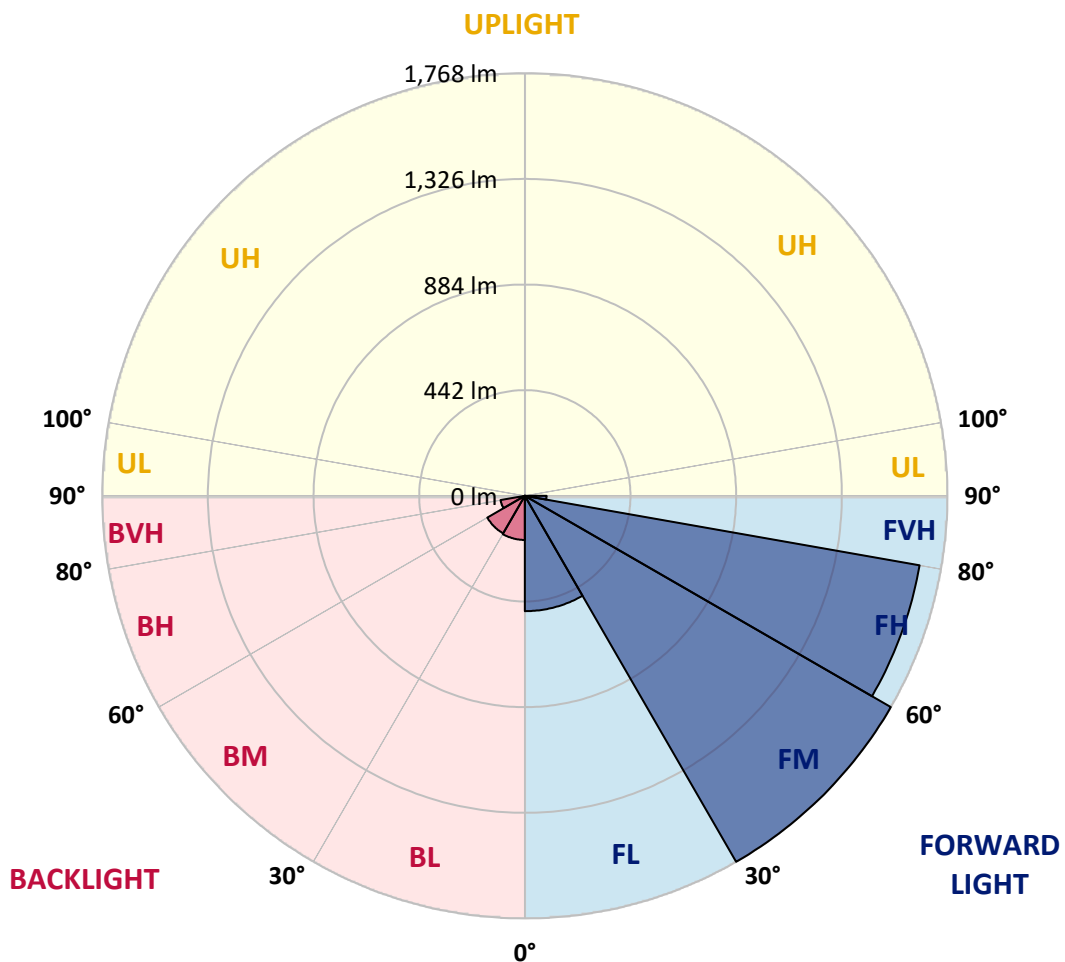


REPORT NUMBER: P677042
 CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	482.7	10.8			
FM (30°-60°)	1768.3	39.4			
FH (60°-80°)	1677.4	37.4			G1/1800
FVH (80°-90°)	90.8	2.0			G1/100
BL (0°-30°)	184.8	4.1	B1/500		
BM (30°-60°)	181.4	4.0	B0/220		
BH (60°-80°)	103.0	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





REPORT NUMBER: P677042

CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6
2.5°	1418.9	1424.1	1411.5	1426.2	1412.6	1418.9	1411.5	1409.4	1410.5	1411.5	1403.1
5°	1352.6	1365.2	1370.5	1362.0	1382.0	1378.9	1391.5	1392.6	1387.3	1382.0	1383.1
7.5°	1265.2	1277.8	1283.1	1288.4	1308.4	1334.7	1351.5	1341.0	1349.4	1368.4	1339.9
10°	1202.0	1198.9	1197.8	1208.4	1246.3	1268.4	1296.8	1293.6	1314.7	1332.6	1309.4
12.5°	1124.2	1117.8	1136.8	1145.2	1178.9	1217.8	1239.9	1263.1	1284.1	1303.1	1276.8
15°	1066.3	1071.5	1078.9	1096.8	1121.0	1172.6	1205.2	1227.3	1265.2	1274.7	1264.1
17.5°	1019.9	1024.2	1034.7	1044.2	1074.7	1124.2	1175.7	1202.0	1242.0	1267.3	1234.7
20°	1021.0	1008.4	1008.4	1017.8	1034.7	1093.6	1148.4	1156.8	1211.5	1254.7	1232.6
22.5°	1022.1	1017.8	1008.4	1007.3	1014.7	1056.8	1112.6	1131.5	1190.5	1241.0	1214.7
25°	1036.8	1021.0	1022.1	1007.3	1010.5	1031.5	1075.7	1104.2	1171.5	1248.4	1205.2
27.5°	1049.4	1056.8	1042.1	1035.7	1017.8	1016.8	1053.6	1077.8	1162.0	1265.2	1211.5
30°	1077.8	1083.1	1083.1	1078.9	1062.1	1037.8	1046.3	1076.8	1143.1	1262.0	1201.0
32.5°	1125.2	1115.7	1128.4	1122.0	1099.9	1062.1	1069.4	1085.2	1154.7	1302.0	1217.8
35°	1141.0	1148.4	1165.2	1151.5	1144.2	1122.0	1107.3	1118.9	1171.5	1342.0	1243.1
37.5°	1189.4	1178.9	1190.5	1221.0	1228.4	1188.4	1159.9	1176.8	1234.7	1389.4	1266.3
40°	1193.6	1202.0	1223.1	1283.1	1290.5	1273.6	1250.5	1254.7	1297.8	1450.5	1324.1
42.5°	1214.7	1224.1	1267.3	1317.8	1357.8	1361.0	1344.1	1344.1	1381.0	1548.3	1388.3
45°	1255.7	1239.9	1295.7	1381.0	1438.9	1450.5	1472.6	1467.3	1496.8	1651.5	1508.3
47.5°	1271.5	1276.8	1337.8	1441.0	1507.3	1561.0	1597.8	1598.9	1613.6	1783.1	1664.1
50°	1323.1	1322.0	1395.7	1491.5	1589.4	1687.3	1758.9	1758.9	1757.8	1911.5	1797.8
52.5°	1391.5	1389.4	1446.2	1559.9	1687.3	1810.4	1905.2	1908.3	1932.5	2069.4	1951.5
55°	1503.1	1493.6	1548.3	1632.5	1785.2	1934.6	2098.8	2099.9	2080.9	2182.0	2062.0
57.5°	1596.8	1595.7	1641.0	1722.0	1894.6	2094.6	2285.1	2313.6	2253.6	2297.8	2150.4
60°	1572.6	1586.2	1679.9	1799.9	2010.4	2294.6	2486.2	2530.4	2434.6	2376.7	2216.7
62.5°	1422.0	1453.6	1555.7	1747.3	2108.3	2585.1	2763.0	2743.0	2529.3	2444.1	2297.8
65°	1023.1	1054.7	1181.0	1468.3	1994.6	2790.4	3127.2	3036.7	2697.8	2544.1	2406.2
67.5°	602.1	614.7	693.6	936.8	1491.5	2678.8	3569.3	3576.7	3029.3	2697.8	2593.6
70°	434.7	444.2	474.7	552.6	826.3	2099.9	3815.6	4007.2	3489.3	2874.6	2494.6
72.5°	333.7	333.7	385.2	460.0	526.3	1257.8	3511.4	3895.6	3589.3	2705.1	2010.4
75°	240.0	246.3	302.1	395.8	485.2	631.5	2587.2	3091.4	3041.9	2192.5	1404.1
77.5°	137.9	141.0	212.6	331.6	455.8	433.7	1598.9	2095.7	2154.6	1372.6	608.4
80°	70.5	72.6	118.9	262.1	412.6	377.9	953.6	1379.9	1170.5	398.9	141.0
82.5°	34.7	34.7	53.7	167.4	350.5	334.7	561.0	762.1	414.7	91.6	58.9
85°	11.6	12.6	24.2	94.7	253.7	202.1	343.1	362.1	138.9	34.7	32.6
87.5°	3.2	4.2	6.3	34.7	110.5	132.6	204.2	231.6	56.8	13.7	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677042

CATALOG NUMBER: CCW-SA-1E-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6	1393.6
2.5°	1371.5	1364.1	1355.7	1334.7	1317.8	1295.7	1281.0	1269.4	1247.3	1251.5	1242.0
5°	1357.8	1344.1	1295.7	1249.4	1207.3	1143.1	1098.9	1070.5	1047.3	1024.2	1041.0
7.5°	1333.6	1301.0	1225.2	1138.9	1049.4	965.2	881.0	830.5	793.6	760.0	758.9
10°	1292.6	1239.9	1121.0	1008.4	870.5	760.0	652.6	568.4	513.7	473.7	472.6
12.5°	1246.3	1191.5	1042.1	858.9	700.0	544.2	415.8	326.3	274.7	243.1	238.9
15°	1216.8	1136.8	943.1	726.3	529.4	354.7	230.5	174.7	154.7	147.4	147.4
17.5°	1178.9	1087.3	845.2	588.4	367.3	205.3	149.5	134.7	133.7	131.6	129.5
20°	1163.1	1049.4	757.9	469.4	232.6	145.3	128.4	125.3	125.3	123.2	121.0
22.5°	1121.0	994.7	665.2	344.2	154.7	127.4	121.0	116.8	114.7	112.6	114.7
25°	1102.0	955.7	577.9	237.9	126.3	113.7	110.5	106.3	103.2	102.1	102.1
27.5°	1089.4	916.8	492.6	165.3	111.6	104.2	97.9	94.7	90.5	86.3	86.3
30°	1079.9	886.3	410.5	122.1	100.0	92.6	87.4	80.0	74.7	70.5	70.5
32.5°	1067.3	850.5	328.4	104.2	90.5	83.2	73.7	67.4	60.0	56.8	56.8
35°	1071.5	826.3	257.9	92.6	81.0	71.6	63.2	54.7	47.4	44.2	43.2
37.5°	1079.9	808.4	195.8	83.2	72.6	62.1	52.6	43.2	38.9	34.7	34.7
40°	1115.7	803.1	144.2	76.8	66.3	54.7	44.2	35.8	31.6	28.4	27.4
42.5°	1175.7	810.5	111.6	69.5	60.0	46.3	36.8	29.5	25.3	22.1	21.1
45°	1252.6	838.9	91.6	65.3	52.6	38.9	29.5	24.2	18.9	16.8	16.8
47.5°	1364.1	883.1	80.0	60.0	46.3	32.6	25.3	18.9	14.7	12.6	12.6
50°	1490.4	933.6	70.5	53.7	40.0	27.4	20.0	14.7	10.5	9.5	9.5
52.5°	1616.8	997.8	65.3	49.5	34.7	22.1	15.8	10.5	7.4	6.3	6.3
55°	1749.4	1054.7	58.9	46.3	28.4	17.9	11.6	6.3	4.2	3.2	3.2
57.5°	1842.0	1076.8	51.6	40.0	22.1	13.7	8.4	4.2	2.1	1.1	1.1
60°	1908.3	1079.9	44.2	32.6	16.8	10.5	5.3	2.1	1.1	0.0	0.0
62.5°	1964.1	1086.3	37.9	25.3	12.6	7.4	3.2	1.1	0.0	0.0	0.0
65°	2074.6	1081.0	30.5	20.0	8.4	4.2	2.1	0.0	0.0	0.0	0.0
67.5°	2162.0	1028.4	24.2	13.7	5.3	2.1	1.1	0.0	0.0	0.0	0.0
70°	1912.5	784.2	18.9	9.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1502.0	523.1	12.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	985.2	260.0	9.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	383.1	68.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	92.6	23.2	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.0	8.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.2	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	2.1	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)