

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: P676846

Luminaire Tested: **CCW-SA-2B-735-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676846
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-735-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

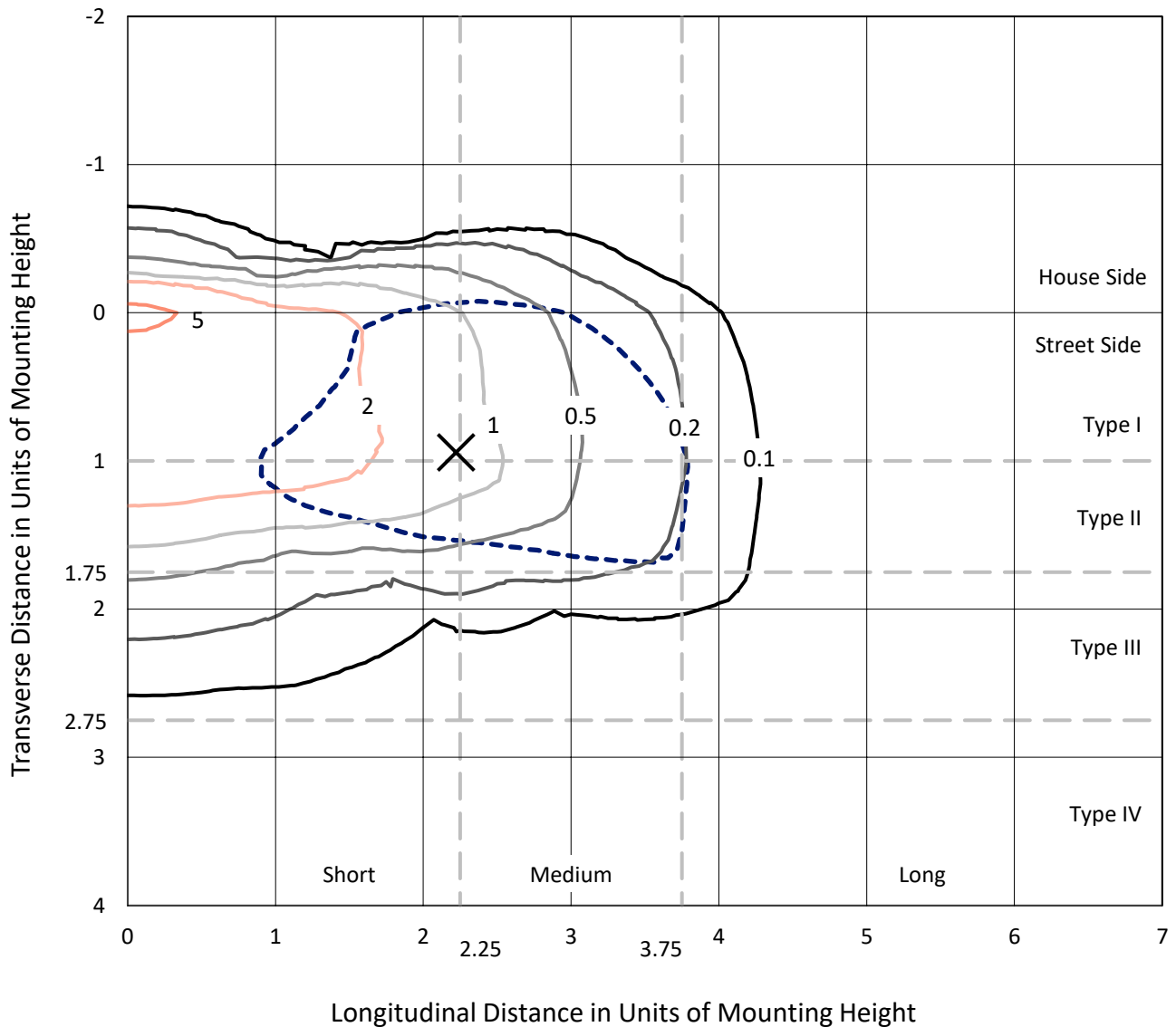
Lumens per Lamp: N/A
Luminaire Lumens: 5477.6 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 46
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

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Iso-Footcandle Lines of Horizontal Illumination

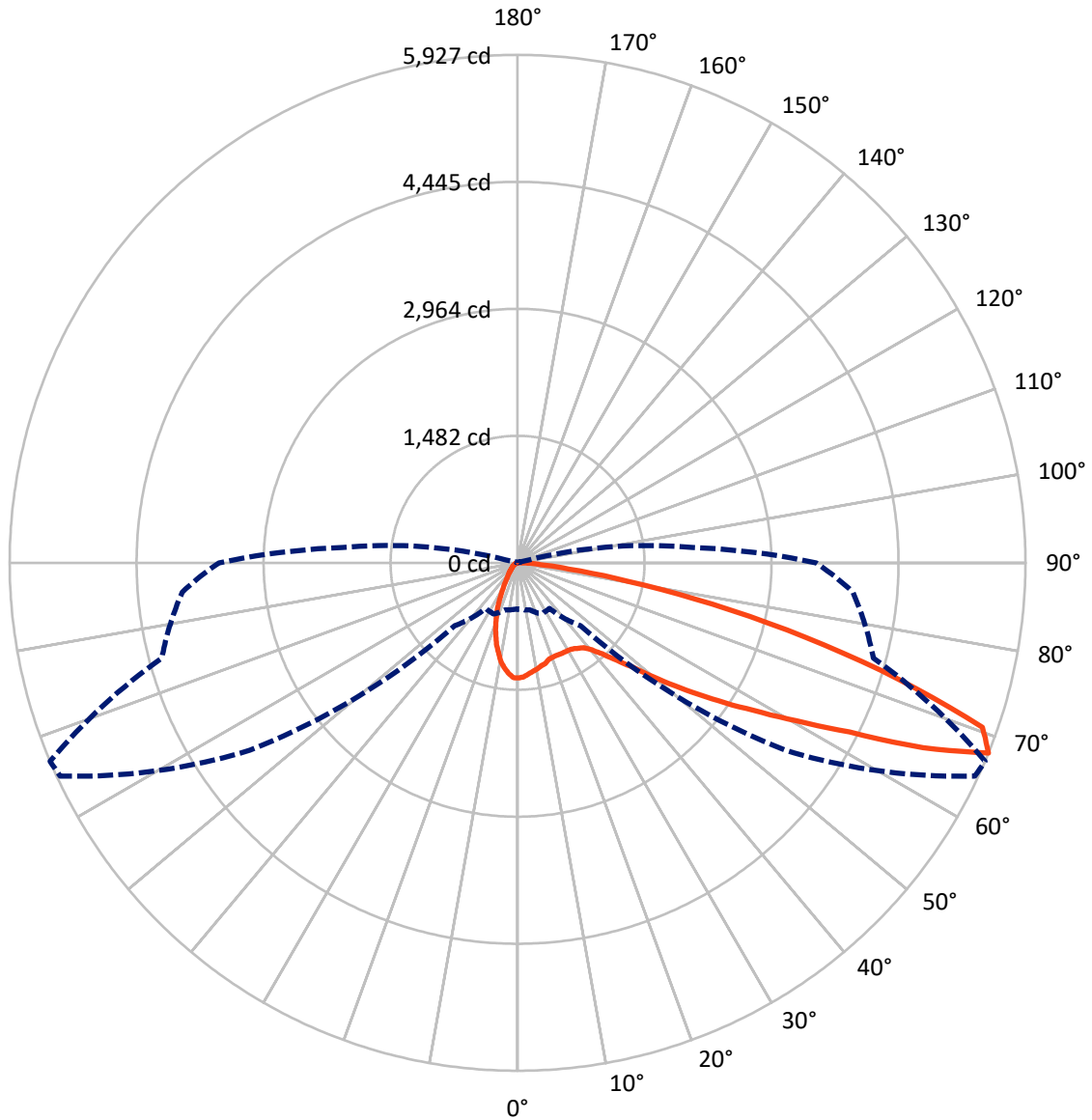
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 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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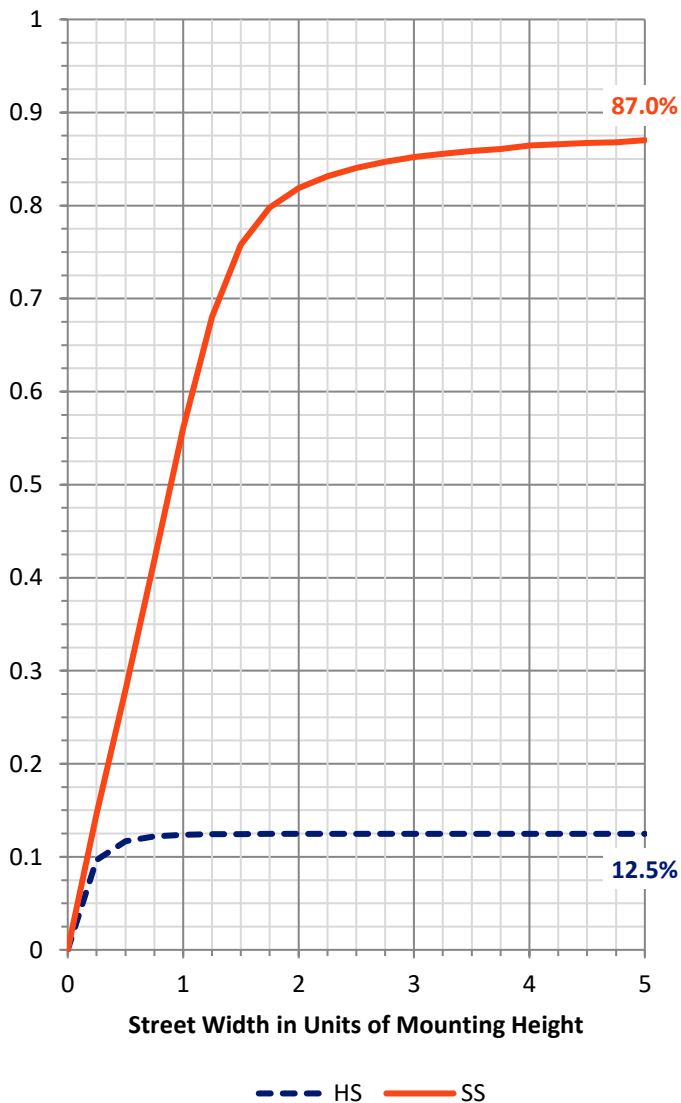
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	689.4	0.0	689.4
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4788.2	0.0	4788.2
	% Fixture	87.4	0.0	87.4
Total	Lumens	5477.6	0.0	5477.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	2.1
10°-20°	251.5	4.6
20°-30°	357.6	6.5
30°-40°	520.7	9.5
40°-50°	805.9	14.7
50°-60°	1236.8	22.6
60°-70°	1340.7	24.5
70°-80°	756.3	13.8
80°-90°	95.0	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°	5477.6	100.0
0°-180°	5477.6	100.0

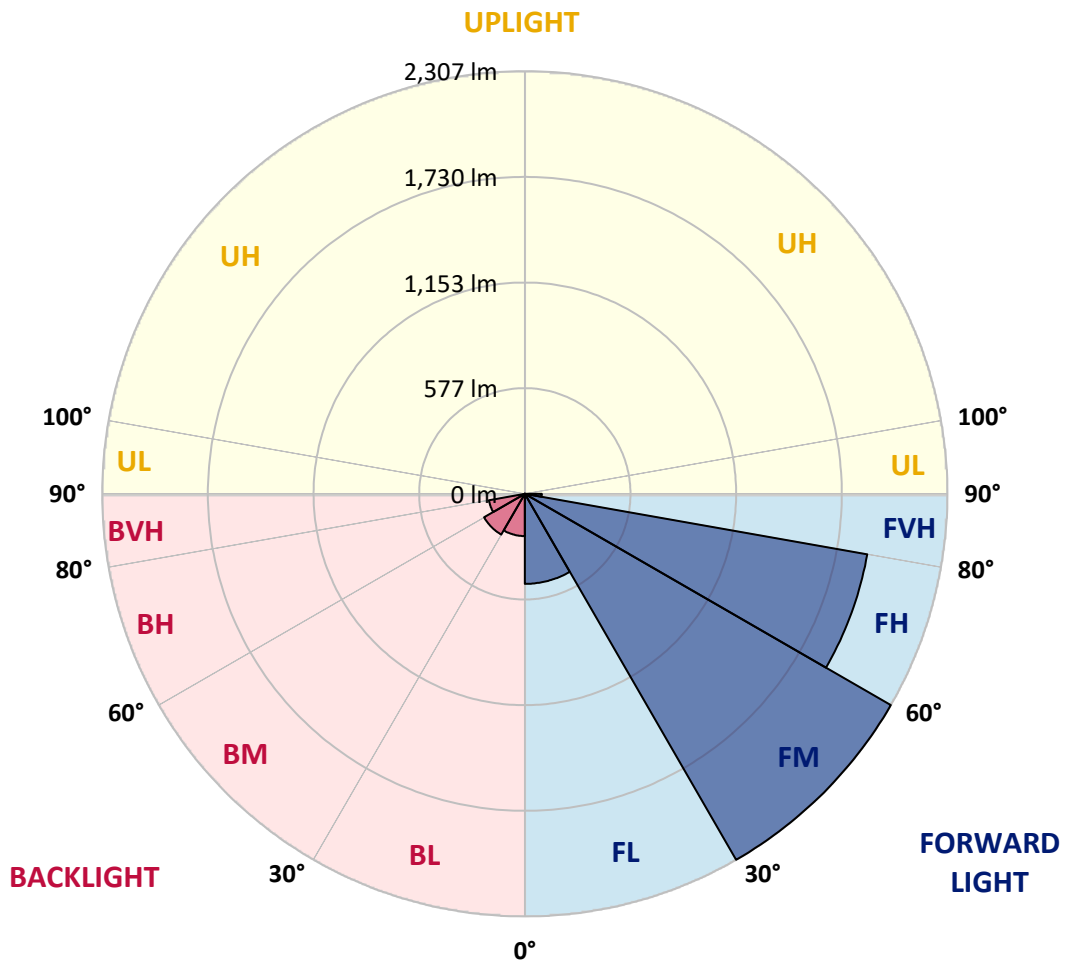


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.5	9.0			
FM (30°-60°)	2306.5	42.1			
FH (60°-80°)	1897.9	34.6			G2/5000
FVH (80°-90°)	92.3	1.7			G1/100
BL (0°-30°)	230.8	4.2	B1/500		
BM (30°-60°)	256.8	4.7	B1/1000		
BH (60°-80°)	199.1	3.6	B1/500		G1/500
BVH (80°-90°)	2.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1285.5	1292.1	1301.3	1314.5	1323.8	1318.5	1322.4	1344.9	1333.0	1343.5	1338.3
5°	1214.2	1220.8	1234.0	1232.7	1243.2	1263.0	1289.4	1318.5	1305.3	1337.0	1348.8
7.5°	1140.3	1137.7	1137.7	1165.4	1187.8	1215.5	1230.0	1277.6	1278.9	1306.6	1335.6
10°	1073.0	1080.9	1094.1	1104.7	1125.8	1165.4	1207.6	1244.6	1259.1	1314.5	1322.4
12.5°	1032.1	1036.0	1051.9	1061.1	1088.8	1127.1	1172.0	1219.5	1231.4	1288.1	1326.4
15°	1014.9	1024.2	1029.4	1046.6	1061.1	1096.7	1129.7	1183.9	1218.2	1263.0	1310.6
17.5°	1028.1	1024.2	1026.8	1032.1	1049.2	1080.9	1116.5	1170.7	1182.5	1257.8	1329.0
20°	1045.3	1046.6	1038.7	1036.0	1032.1	1062.4	1091.5	1161.4	1174.6	1257.8	1340.9
22.5°	1091.5	1077.0	1091.5	1070.4	1049.2	1062.4	1090.1	1162.7	1172.0	1256.4	1352.8
25°	1148.2	1150.9	1154.8	1109.9	1079.6	1070.4	1099.4	1166.7	1174.6	1267.0	1358.1
27.5°	1228.7	1240.6	1220.8	1198.4	1137.7	1091.5	1098.1	1164.1	1178.6	1261.7	1371.3
30°	1337.0	1327.7	1330.4	1278.9	1219.5	1146.9	1128.4	1170.7	1181.2	1268.3	1396.3
32.5°	1430.7	1420.1	1438.6	1420.1	1326.4	1226.1	1164.1	1183.9	1195.7	1284.2	1417.5
35°	1488.7	1501.9	1531.0	1550.8	1471.6	1329.0	1223.4	1219.5	1224.8	1292.1	1433.3
37.5°	1578.5	1602.2	1626.0	1676.1	1607.5	1455.7	1317.2	1265.7	1256.4	1330.4	1441.2
40°	1676.1	1669.5	1739.5	1798.9	1796.2	1633.9	1447.8	1347.5	1334.3	1391.1	1494.0
42.5°	1758.0	1751.4	1829.2	1926.9	1937.5	1805.5	1597.0	1463.7	1451.8	1484.8	1558.7
45°	1864.9	1870.1	1962.5	2078.7	2116.9	2032.5	1798.9	1629.9	1623.3	1612.8	1681.4
47.5°	1959.9	1988.9	2068.1	2205.4	2344.0	2267.4	2036.4	1872.8	1826.6	1802.8	1871.5
50°	2025.9	2052.3	2148.6	2295.1	2548.5	2597.4	2303.0	2131.5	2132.8	2074.7	2111.7
52.5°	2025.9	2024.6	2102.4	2295.1	2691.1	2941.8	2659.4	2457.5	2468.0	2407.3	2409.9
55°	1830.6	1826.6	1921.6	2126.2	2675.2	3273.1	3199.2	2870.6	2844.2	2726.7	2738.6
57.5°	1474.2	1483.4	1556.0	1801.5	2469.3	3427.5	3841.9	3335.1	3245.4	3002.5	3002.5
60°	1075.6	1067.7	1121.8	1293.4	1978.4	3369.4	4369.8	3882.8	3741.6	3230.9	3196.5
62.5°	818.3	817.0	831.5	889.5	1255.1	2937.9	4596.8	4579.7	4350.0	3455.2	3406.4
65°	661.2	663.9	683.7	724.6	766.8	2003.4	4476.7	5411.2	5201.3	3789.1	3629.4
67.5°	539.8	546.4	570.2	658.6	649.3	1037.4	3812.9	5887.6	5927.2	4298.6	3929.0
70°	415.7	426.3	454.0	579.4	625.6	690.3	2643.5	5650.0	5755.6	4615.3	3748.2
72.5°	282.4	281.1	340.5	469.8	632.2	632.2	1471.6	4550.6	4651.0	4255.0	3255.9
75°	153.1	162.3	225.7	355.0	579.4	611.1	838.1	3329.8	3471.1	3308.7	2518.2
77.5°	83.1	84.5	125.4	232.3	481.7	583.3	559.6	2264.8	2320.2	1995.5	1379.2
80°	43.6	44.9	66.0	151.8	332.6	541.1	465.9	1350.1	1297.4	765.5	455.3
82.5°	19.8	21.1	33.0	95.0	212.5	426.3	402.5	652.0	601.8	213.8	138.6
85°	7.9	7.9	14.5	56.8	124.1	209.8	344.5	327.3	273.2	64.7	68.6
87.5°	2.6	2.6	4.0	22.4	50.2	125.4	183.5	172.9	118.8	23.8	37.0
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°	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5	1343.5
2.5°	1333.0	1347.5	1343.5	1340.9	1315.8	1313.2	1310.6	1286.8	1294.7	1274.9	1288.1
5°	1340.9	1348.8	1327.7	1288.1	1252.5	1212.9	1182.5	1161.4	1123.1	1108.6	1106.0
7.5°	1333.0	1333.0	1289.4	1226.1	1156.1	1091.5	1009.6	951.6	908.0	875.0	886.9
10°	1322.4	1306.6	1261.7	1149.5	1022.8	925.2	807.7	721.9	657.3	636.1	622.9
12.5°	1322.4	1294.7	1194.4	1041.3	877.7	729.8	589.9	477.8	415.7	378.8	373.5
15°	1310.6	1269.6	1145.6	939.7	736.4	535.8	376.1	279.8	227.0	212.5	207.2
17.5°	1313.2	1264.4	1073.0	819.6	571.5	356.3	229.6	176.9	163.7	157.1	158.4
20°	1318.5	1264.4	1008.3	702.1	411.8	221.7	158.4	149.1	142.5	139.9	141.2
22.5°	1335.6	1239.3	942.3	582.0	278.5	159.7	139.9	130.7	125.4	121.4	120.1
25°	1338.3	1235.3	879.0	463.2	191.4	134.6	122.7	112.2	105.6	100.3	99.0
27.5°	1334.3	1218.2	790.6	344.5	143.9	120.1	104.3	93.7	84.5	80.5	79.2
30°	1348.8	1186.5	715.3	248.1	121.4	104.3	88.4	76.5	68.6	63.4	63.4
32.5°	1350.1	1158.8	632.2	176.9	110.9	92.4	75.2	62.0	54.1	51.5	51.5
35°	1351.5	1133.7	539.8	134.6	99.0	79.2	62.0	51.5	46.2	42.2	42.2
37.5°	1355.4	1115.2	455.3	113.5	88.4	67.3	51.5	42.2	37.0	35.6	35.6
40°	1363.3	1090.1	366.9	100.3	76.5	56.8	43.6	35.6	30.4	29.0	27.7
42.5°	1384.5	1083.6	293.0	89.7	68.6	47.5	35.6	29.0	25.1	22.4	21.1
45°	1471.6	1100.7	227.0	83.1	58.1	39.6	30.4	23.8	18.5	17.2	15.8
47.5°	1614.1	1157.5	179.5	73.9	48.8	33.0	25.1	18.5	14.5	13.2	11.9
50°	1830.6	1286.8	146.5	66.0	40.9	27.7	19.8	14.5	10.6	9.2	9.2
52.5°	2114.3	1461.0	126.7	58.1	33.0	23.8	15.8	10.6	7.9	6.6	6.6
55°	2404.7	1666.9	118.8	50.2	27.7	19.8	11.9	7.9	5.3	4.0	4.0
57.5°	2671.3	1800.2	114.8	40.9	23.8	14.5	9.2	5.3	2.6	1.3	1.3
60°	2837.6	1897.9	102.9	33.0	18.5	11.9	6.6	2.6	1.3	0.0	0.0
62.5°	3056.6	1996.8	84.5	25.1	13.2	7.9	4.0	1.3	0.0	0.0	0.0
65°	3345.7	2107.7	66.0	19.8	10.6	5.3	2.6	1.3	0.0	0.0	0.0
67.5°	3484.3	2049.6	44.9	14.5	6.6	2.6	1.3	0.0	0.0	0.0	0.0
70°	3207.1	1726.3	31.7	10.6	4.0	1.3	1.3	0.0	0.0	0.0	0.0
72.5°	2696.3	1352.8	23.8	6.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1987.6	846.0	18.5	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1054.5	315.4	13.2	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	311.5	92.4	9.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.9	27.7	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.8	10.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.4	4.0	2.6	2.6	1.3	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)