

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: P675750

Luminaire Tested: **CCW-SA-2C-830-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675750
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-830-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

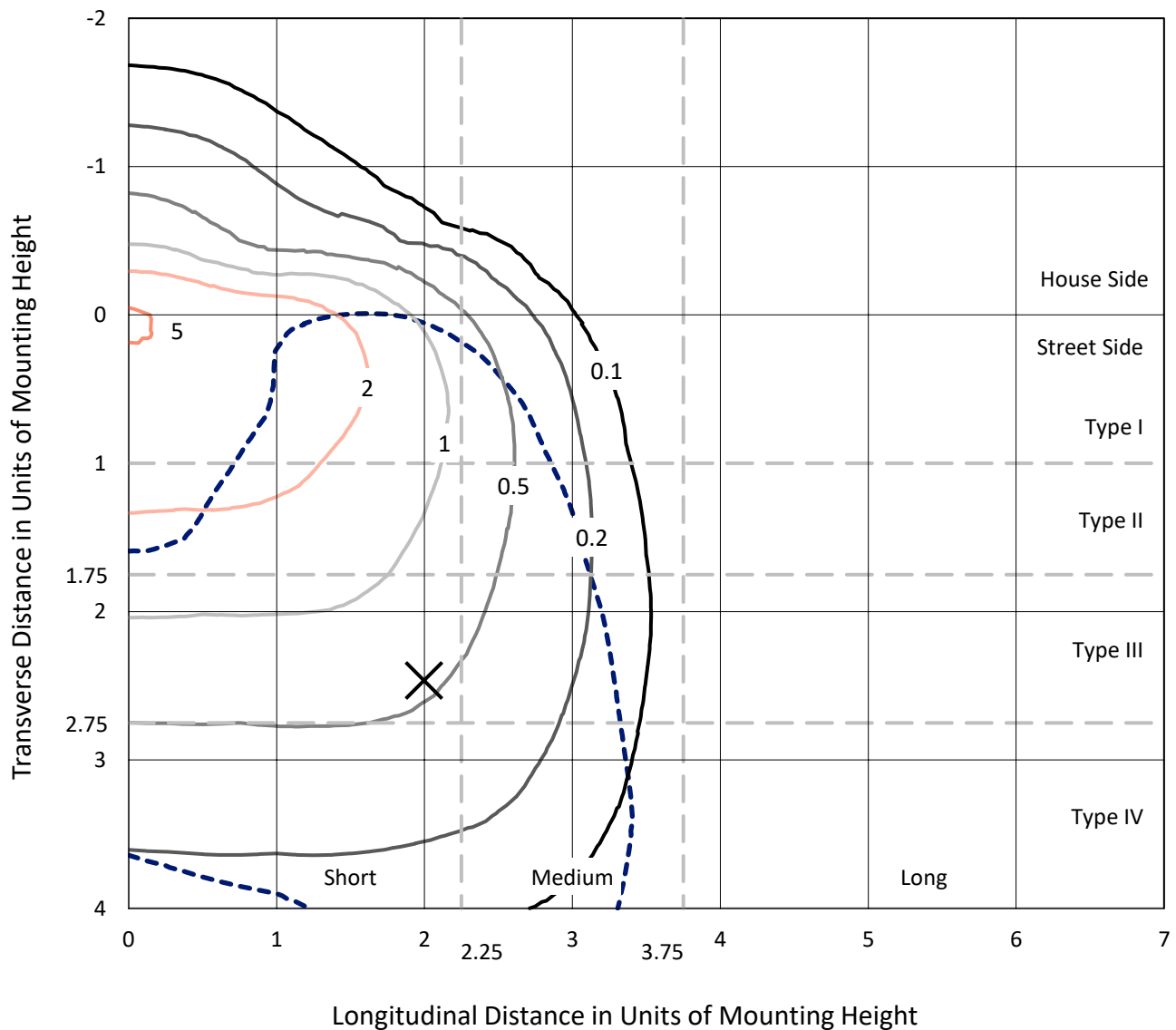
Lumens per Lamp: N/A
Luminaire Lumens: 7040.1 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (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: P675750
 CATALOG NUMBER: CCW-SA-2C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

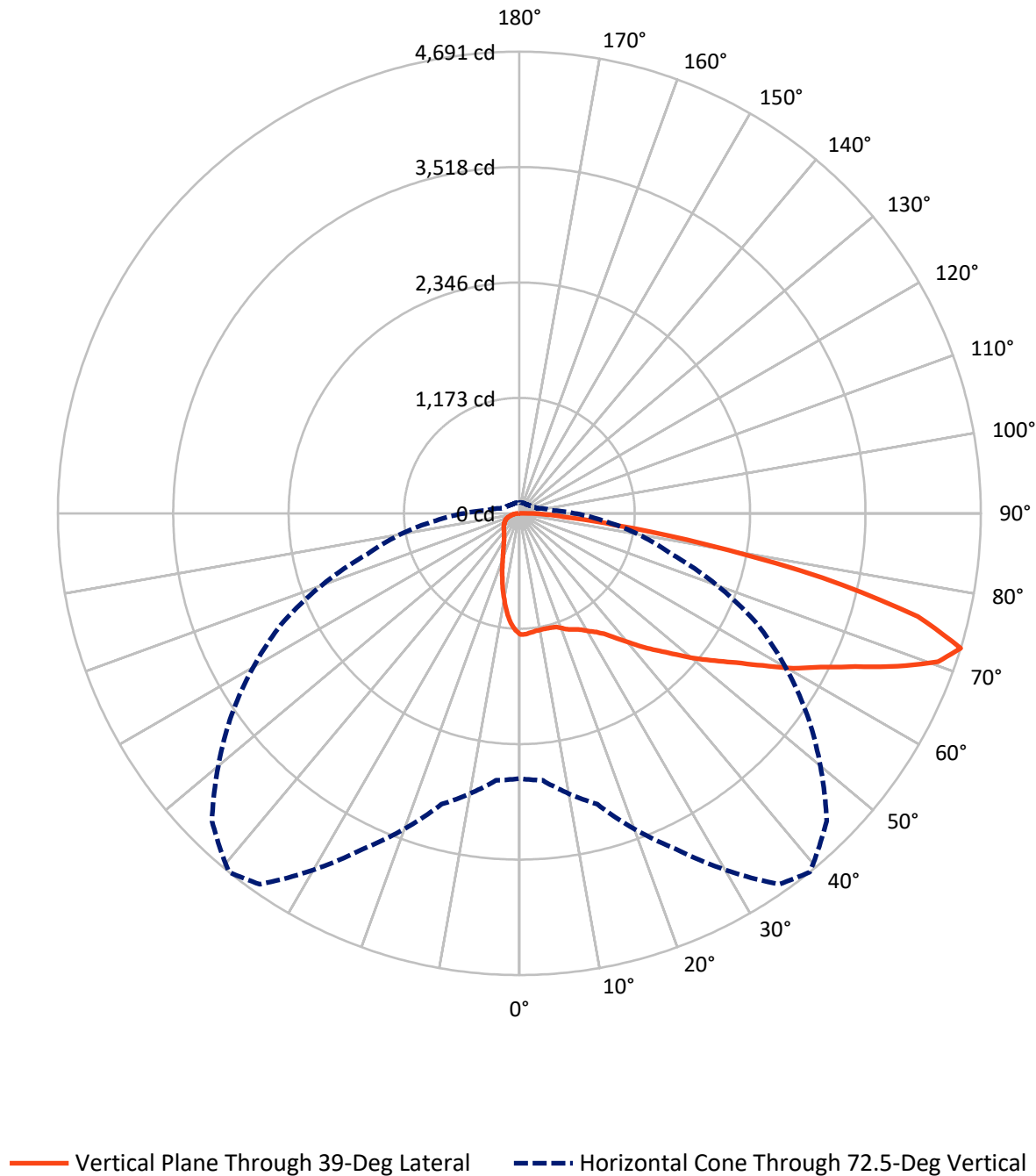
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P675750
CATALOG NUMBER: CCW-SA-2C-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675750

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1046.3	0.0	1046.3
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5993.8	0.0	5993.8
	% Fixture	85.1	0.0	85.1
Total	Lumens	7040.1	0.0	7040.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.5
10°-20°	277.9	3.9
20°-30°	423.4	6.0
30°-40°	619.4	8.8
40°-50°	948.3	13.5
50°-60°	1390.8	19.8
60°-70°	1773.7	25.2
70°-80°	1281.5	18.2
80°-90°	216.2	3.1
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°	7040.1	100.0
0°-180°	7040.1	100.0

Coefficient of Utilization



REPORT NUMBER: P675750

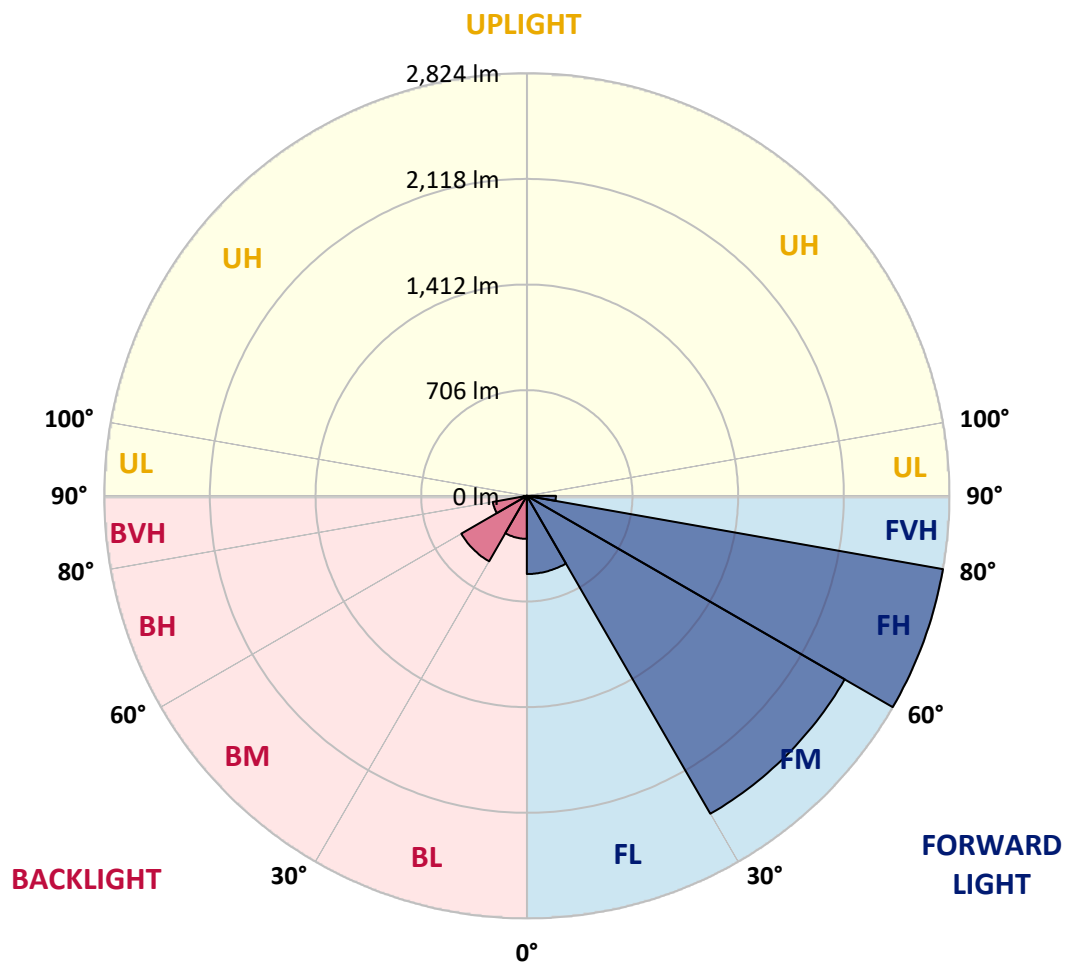
CATALOG NUMBER: CCW-SA-2C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.5	7.4			
FM	(30°-60°)	2453.0	34.8			
FH	(60°-80°)	2824.1	40.1			G2/5000
FVH	(80°-90°)	194.3	2.8			G2/225
BL	(0°-30°)	287.7	4.1	B1/500		
BM	(30°-60°)	505.5	7.2	B1/1000		
BH	(60°-80°)	231.2	3.3	B1/500		G1/500
BVH	(80°-90°)	21.9	0.3			G1/100
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: P675750

CATALOG NUMBER: CCW-SA-2C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3
2.5°	1250.8	1253.5	1248.2	1242.9	1240.3	1229.7	1240.3	1235.0	1229.7	1229.7	1229.7
5°	1235.0	1237.6	1237.6	1232.3	1235.0	1216.5	1213.8	1216.5	1208.5	1203.2	1200.6
7.5°	1211.2	1216.5	1227.0	1224.4	1213.8	1205.9	1208.5	1205.9	1192.7	1184.7	1163.6
10°	1192.7	1198.0	1203.2	1208.5	1205.9	1203.2	1200.6	1190.0	1187.4	1168.9	1147.7
12.5°	1174.2	1174.2	1176.8	1198.0	1200.6	1200.6	1184.7	1184.7	1176.8	1174.2	1142.4
15°	1155.6	1163.6	1184.7	1190.0	1200.6	1205.9	1198.0	1198.0	1184.7	1166.2	1142.4
17.5°	1160.9	1174.2	1195.3	1208.5	1213.8	1213.8	1224.4	1216.5	1198.0	1187.4	1163.6
20°	1187.4	1190.0	1216.5	1240.3	1245.6	1245.6	1235.0	1227.0	1213.8	1195.3	1163.6
22.5°	1203.2	1221.8	1253.5	1266.7	1282.6	1282.6	1269.4	1250.8	1232.3	1213.8	1179.4
25°	1272.0	1274.6	1287.9	1309.0	1317.0	1306.4	1293.2	1272.0	1248.2	1229.7	1198.0
27.5°	1319.6	1332.8	1348.7	1359.3	1346.0	1338.1	1327.5	1303.7	1285.2	1269.4	1224.4
30°	1406.9	1391.0	1401.6	1406.9	1383.1	1388.4	1359.3	1338.1	1317.0	1317.0	1266.7
32.5°	1459.8	1473.0	1462.4	1459.8	1441.3	1438.6	1420.1	1396.3	1383.1	1398.9	1330.2
35°	1552.3	1544.4	1544.4	1541.7	1520.6	1507.4	1507.4	1465.1	1478.3	1512.7	1428.0
37.5°	1599.9	1597.3	1613.1	1626.4	1605.2	1613.1	1605.2	1586.7	1592.0	1652.8	1549.7
40°	1647.5	1666.0	1697.8	1703.1	1716.3	1726.9	1721.6	1718.9	1740.1	1837.9	1713.6
42.5°	1692.5	1708.3	1755.9	1798.3	1830.0	1864.4	1867.0	1867.0	1935.8	2075.9	1912.0
45°	1750.7	1763.9	1830.0	1914.6	1967.5	1991.3	2012.5	2036.3	2128.8	2295.4	2123.5
47.5°	1830.0	1840.6	1919.9	2025.7	2128.8	2142.0	2184.4	2210.8	2351.0	2520.2	2340.4
50°	1943.7	1935.8	1999.2	2152.6	2253.1	2316.6	2377.4	2425.0	2562.5	2747.6	2509.6
52.5°	2036.3	2036.3	2083.9	2287.5	2425.0	2485.8	2549.3	2615.4	2774.1	2975.1	2647.1
55°	2194.9	2179.1	2208.2	2419.7	2618.1	2676.2	2797.9	2853.4	3006.8	3144.3	2763.5
57.5°	2303.4	2311.3	2345.7	2594.3	2845.5	2916.9	3038.5	3078.2	3213.1	3321.5	2848.1
60°	2446.2	2419.7	2493.8	2787.3	3096.7	3197.2	3297.7	3321.5	3422.0	3435.2	2887.8
62.5°	2583.7	2578.4	2641.9	2980.3	3366.4	3437.8	3541.0	3567.4	3609.7	3525.1	2832.3
65°	2668.3	2702.7	2821.7	3191.9	3673.2	3752.5	3855.7	3802.8	3755.2	3445.8	2559.9
67.5°	2784.7	2800.5	2983.0	3422.0	4027.6	4146.6	4236.5	4027.6	3673.2	3120.5	2155.3
70°	2811.1	2853.4	3091.4	3662.6	4392.5	4514.2	4519.4	3950.9	3374.4	2538.7	1562.9
72.5°	2694.7	2723.8	3059.7	3763.1	4601.4	4691.3	4419.0	3572.7	2673.6	1599.9	851.5
75°	2266.3	2348.3	2663.0	3453.7	4218.0	4183.6	3744.6	2726.5	1605.2	708.7	359.7
77.5°	1578.8	1581.4	1909.3	2512.3	3157.5	3149.6	2670.9	1581.4	687.6	285.6	211.6
80°	700.8	751.0	949.4	1354.0	1917.3	1917.3	1557.6	785.4	343.8	185.1	145.4
82.5°	412.5	428.4	507.7	632.0	933.5	983.8	745.7	523.6	235.4	116.4	89.9
85°	304.1	330.6	378.2	380.8	441.6	449.6	412.5	454.9	161.3	63.5	74.0
87.5°	227.4	243.3	301.5	251.2	235.4	222.1	253.9	465.4	60.8	31.7	23.8
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: P675750

CATALOG NUMBER: CCW-SA-2C-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3	1232.3
2.5°	1219.1	1219.1	1213.8	1203.2	1203.2	1182.1	1187.4	1192.7	1179.4	1179.4	1182.1
5°	1200.6	1190.0	1176.8	1160.9	1150.4	1121.3	1116.0	1097.5	1094.8	1089.5	1081.6
7.5°	1163.6	1147.7	1123.9	1100.1	1065.7	1039.3	1007.6	981.1	970.5	962.6	960.0
10°	1129.2	1126.6	1086.9	1039.3	986.4	936.2	888.6	854.2	833.0	819.8	817.1
12.5°	1129.2	1108.0	1052.5	986.4	909.7	835.7	774.8	727.2	698.1	677.0	669.1
15°	1123.9	1102.8	1028.7	928.2	840.9	740.5	655.8	605.6	563.3	542.1	544.8
17.5°	1129.2	1097.5	994.3	885.9	764.3	655.8	555.3	494.5	452.2	436.3	433.7
20°	1131.8	1092.2	967.9	827.7	684.9	563.3	468.1	409.9	378.2	367.6	367.6
22.5°	1126.6	1076.3	928.2	759.0	616.2	486.6	407.3	357.0	335.9	322.6	327.9
25°	1150.4	1073.7	891.2	700.8	536.8	423.1	362.3	325.3	312.1	304.1	306.8
27.5°	1155.6	1073.7	862.1	634.7	468.1	375.5	327.9	304.1	293.5	288.3	285.6
30°	1176.8	1079.0	827.7	568.6	412.5	338.5	301.5	288.3	280.3	277.7	277.7
32.5°	1235.0	1094.8	790.7	513.0	364.9	306.8	283.0	272.4	267.1	264.4	267.1
35°	1303.7	1137.1	751.0	454.9	330.6	285.6	267.1	259.2	256.5	256.5	256.5
37.5°	1409.5	1200.6	716.7	407.3	301.5	264.4	251.2	248.6	245.9	248.6	248.6
40°	1531.2	1269.4	684.9	370.2	280.3	251.2	238.0	238.0	235.4	238.0	240.6
42.5°	1671.3	1354.0	653.2	333.2	261.8	240.6	230.1	227.4	224.8	230.1	232.7
45°	1864.4	1470.3	632.0	312.1	248.6	230.1	219.5	219.5	216.8	216.8	222.1
47.5°	2025.7	1581.4	632.0	290.9	240.6	222.1	211.6	211.6	206.3	208.9	208.9
50°	2160.6	1676.6	645.3	285.6	230.1	214.2	206.3	201.0	198.3	198.3	198.3
52.5°	2250.5	1734.8	655.8	280.3	224.8	203.6	198.3	195.7	190.4	187.8	190.4
55°	2340.4	1774.5	658.5	280.3	216.8	193.0	187.8	187.8	182.5	179.8	179.8
57.5°	2374.8	1758.6	621.5	275.0	211.6	185.1	179.8	177.2	174.5	171.9	171.9
60°	2358.9	1700.4	539.5	261.8	206.3	179.8	169.2	169.2	169.2	164.0	166.6
62.5°	2250.5	1502.1	433.7	240.6	198.3	169.2	158.7	164.0	164.0	161.3	161.3
65°	1964.9	1240.3	351.7	222.1	187.8	161.3	150.7	158.7	161.3	158.7	156.0
67.5°	1570.8	954.7	290.9	201.0	174.5	148.1	140.2	148.1	150.7	148.1	148.1
70°	1079.0	616.2	235.4	179.8	156.0	134.9	126.9	132.2	132.2	134.9	134.9
72.5°	558.0	333.2	193.0	153.4	134.9	121.6	113.7	113.7	111.1	111.1	111.1
75°	277.7	227.4	161.3	129.6	113.7	103.1	97.8	92.6	92.6	92.6	92.6
77.5°	193.0	174.5	132.2	103.1	92.6	84.6	84.6	76.7	76.7	76.7	76.7
80°	145.4	137.5	100.5	79.3	71.4	66.1	66.1	63.5	63.5	60.8	60.8
82.5°	103.1	111.1	76.7	58.2	52.9	50.2	50.2	47.6	47.6	42.3	42.3
85°	82.0	92.6	58.2	42.3	39.7	34.4	34.4	31.7	31.7	29.1	26.4
87.5°	23.8	50.2	23.8	15.9	15.9	15.9	15.9	13.2	13.2	10.6	10.6
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)