

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: P675352

Luminaire Tested: **CCW-SA-2D-850-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675352
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

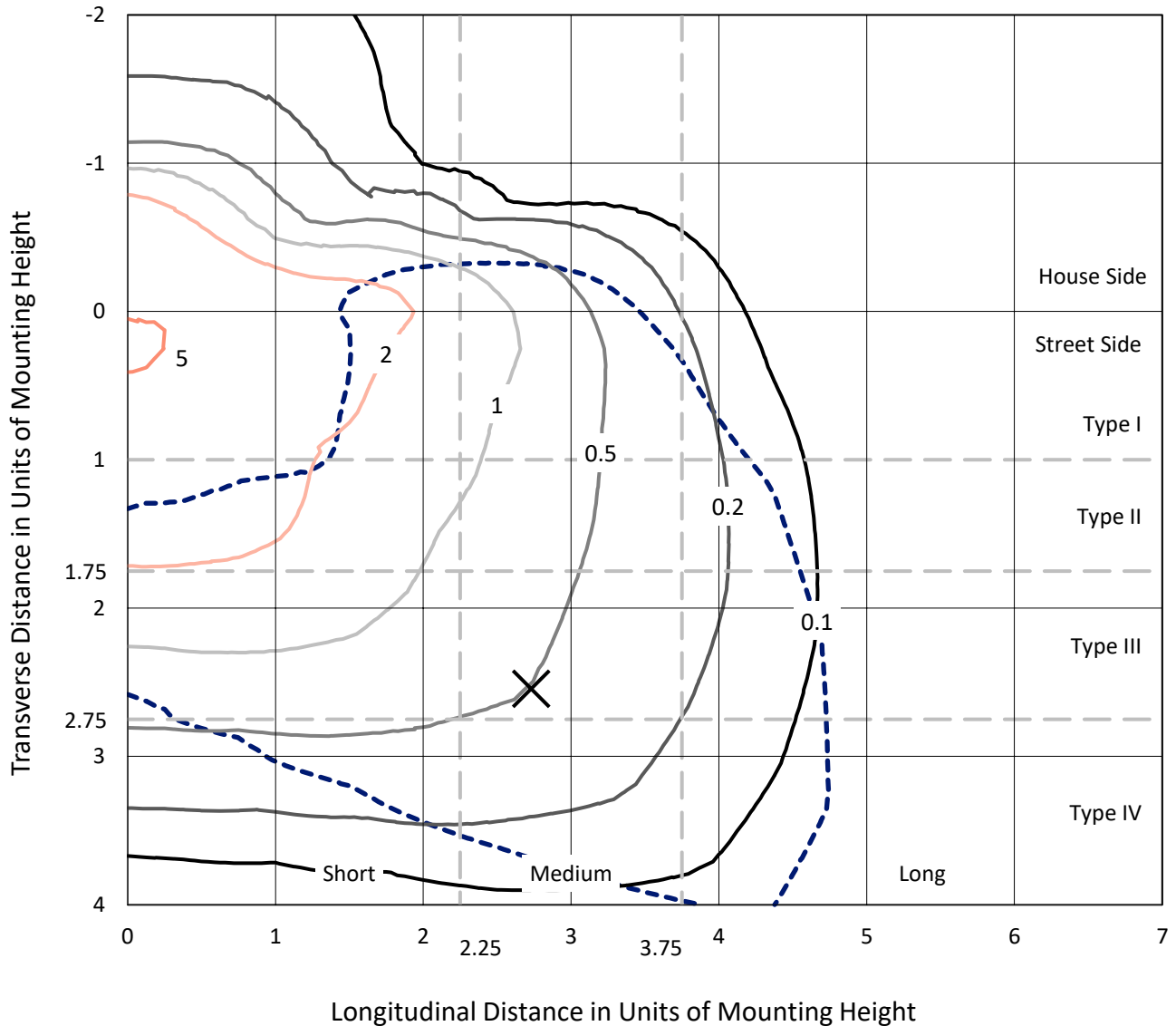
Lumens per Lamp: N/A
Luminaire Lumens: 9817.8 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
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

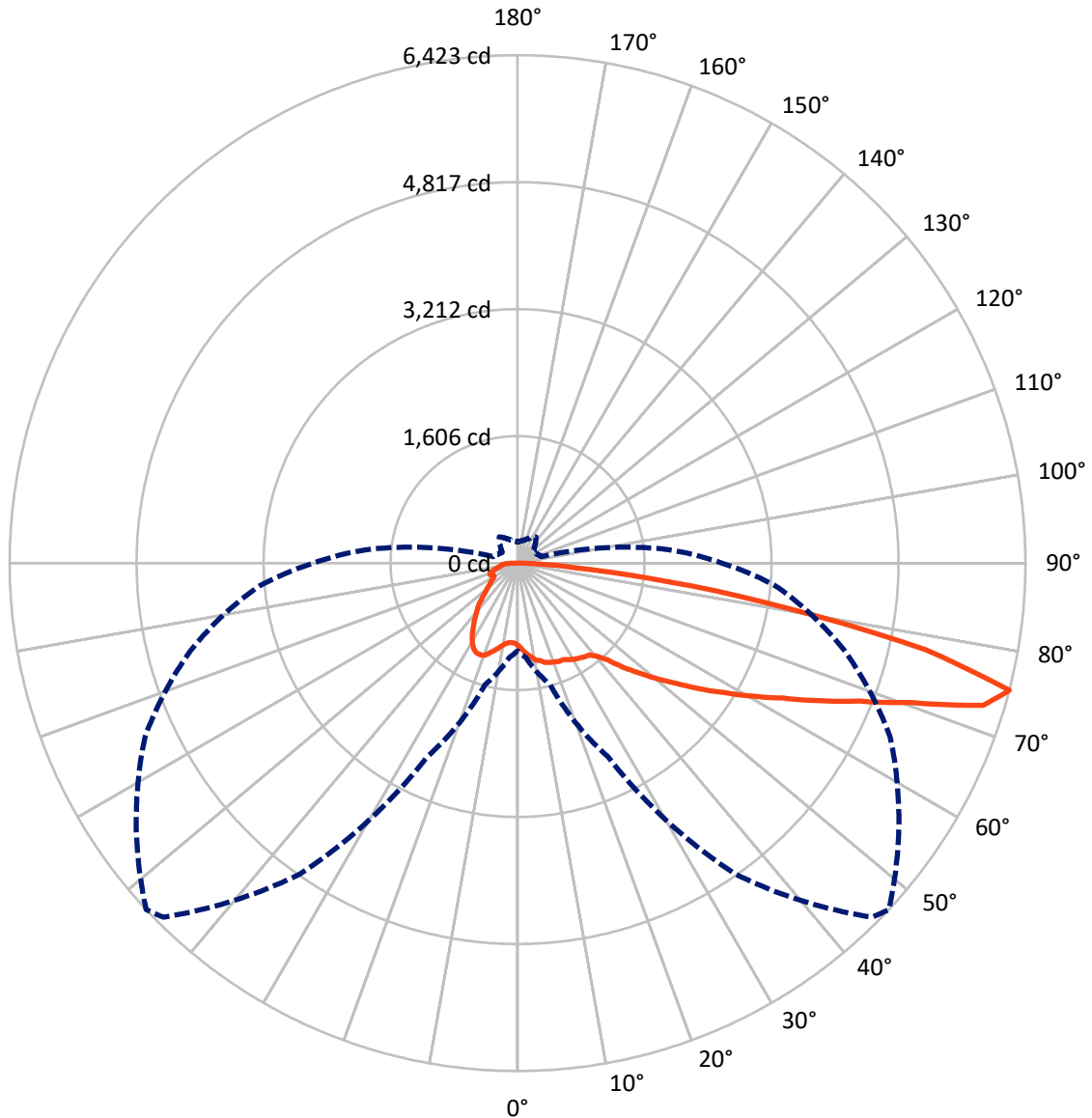
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.9	0.0	2347.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7469.9	0.0	7469.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	9817.8	0.0	9817.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.1
10°-20°	350.0	3.6
20°-30°	599.4	6.1
30°-40°	838.7	8.5
40°-50°	1169.4	11.9
50°-60°	1747.9	17.8
60°-70°	2520.1	25.7
70°-80°	2145.2	21.8
80°-90°	341.7	3.5
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°	9817.8	100.0
0°-180°	9817.8	100.0



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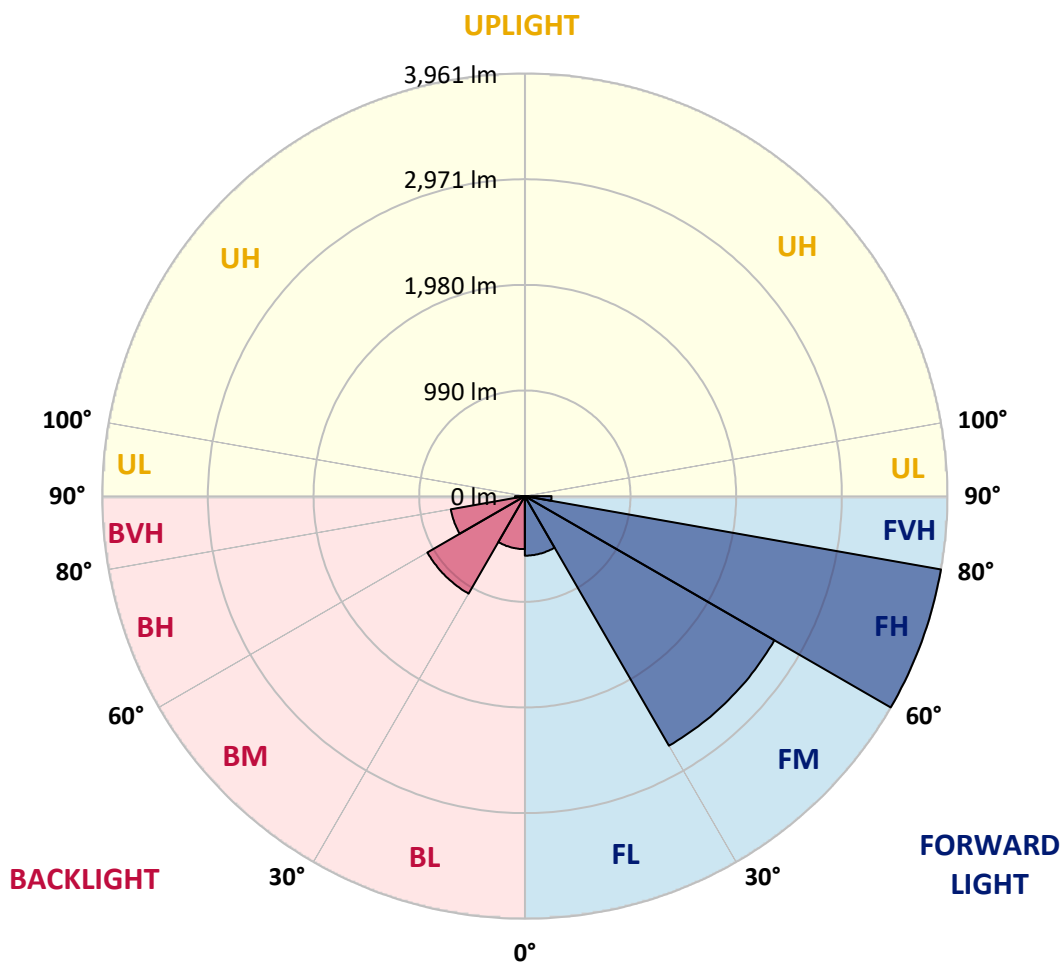
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.8	5.7			
FM (30°-60°)	2700.8	27.5			
FH (60°-80°)	3960.9	40.3			G2/5000
FVH (80°-90°)	250.4	2.6			G3/500
BL (0°-30°)	497.0	5.1	B1/500		
BM (30°-60°)	1055.2	10.7	B2/2500		
BH (60°-80°)	704.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	91.3	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1117.7	1121.3	1121.3	1114.1	1106.9	1092.6	1092.6	1078.3	1071.1	1053.2	1046.0
5°	1221.6	1210.8	1200.1	1196.5	1178.6	1153.5	1149.9	1135.6	1096.2	1078.3	1053.2
7.5°	1296.8	1293.2	1289.6	1275.3	1243.0	1203.6	1192.9	1171.4	1132.0	1096.2	1067.5
10°	1357.7	1372.0	1357.7	1325.4	1293.2	1250.2	1246.6	1207.2	1171.4	1128.4	1092.6
12.5°	1425.7	1429.3	1404.3	1364.8	1314.7	1278.9	1264.5	1250.2	1210.8	1175.0	1121.3
15°	1472.3	1465.1	1447.2	1393.5	1336.2	1300.4	1303.9	1286.0	1243.0	1218.0	1160.7
17.5°	1472.3	1472.3	1443.7	1404.3	1354.1	1321.9	1321.9	1311.1	1282.5	1246.6	1207.2
20°	1443.7	1443.7	1425.7	1404.3	1346.9	1339.8	1332.6	1325.4	1325.4	1293.2	1235.9
22.5°	1407.8	1400.7	1407.8	1372.0	1332.6	1339.8	1350.5	1346.9	1336.2	1307.5	1268.1
25°	1372.0	1375.6	1382.8	1357.7	1321.9	1354.1	1350.5	1368.4	1361.3	1339.8	1307.5
27.5°	1368.4	1375.6	1379.2	1354.1	1339.8	1368.4	1382.8	1400.7	1404.3	1382.8	1343.4
30°	1422.2	1418.6	1415.0	1382.8	1372.0	1397.1	1411.4	1436.5	1458.0	1411.4	1379.2
32.5°	1561.9	1540.4	1518.9	1432.9	1400.7	1418.6	1432.9	1468.7	1472.3	1447.2	1400.7
35°	1784.0	1769.6	1698.0	1547.5	1458.0	1440.1	1454.4	1479.5	1486.6	1468.7	1432.9
37.5°	2038.3	2031.1	1930.8	1748.1	1576.2	1490.2	1475.9	1511.7	1540.4	1501.0	1450.8
40°	2289.1	2260.4	2188.8	2009.7	1726.7	1565.5	1547.5	1565.5	1576.2	1547.5	1515.3
42.5°	2514.8	2482.5	2464.6	2285.5	1923.7	1690.8	1676.5	1633.5	1665.8	1629.9	1586.9
45°	2704.6	2697.5	2690.3	2536.2	2149.4	1895.0	1884.3	1773.2	1809.0	1780.4	1719.5
47.5°	2840.7	2873.0	2862.2	2776.3	2407.3	2113.5	2081.3	1938.0	1991.7	1963.1	1902.2
50°	3001.9	3019.9	3009.1	2951.8	2647.3	2364.3	2303.4	2156.5	2217.4	2213.8	2181.6
52.5°	3145.2	3199.0	3138.1	3134.5	2991.2	2636.6	2532.7	2393.0	2493.3	2532.7	2529.1
55°	3313.6	3356.6	3338.7	3331.5	3299.3	2901.6	2808.5	2640.1	2808.5	2865.8	2916.0
57.5°	3456.9	3453.3	3521.4	3603.8	3643.2	3206.1	3095.1	2898.1	3152.4	3216.9	3356.6
60°	3521.4	3582.3	3696.9	3904.7	4015.7	3532.1	3417.5	3259.9	3499.9	3550.0	3808.0
62.5°	3564.4	3618.1	3840.2	4191.3	4255.7	3865.3	3757.8	3600.2	3879.6	3915.4	4298.7
65°	3446.1	3496.3	3936.9	4298.7	4528.0	4223.5	4198.4	4033.6	4259.3	4280.8	4814.6
67.5°	3310.0	3363.8	3854.5	4434.9	4889.8	4699.9	4660.5	4463.5	4635.5	4610.4	5208.6
70°	3070.0	3141.7	3643.2	4553.1	5291.0	5366.2	5287.4	5008.0	5025.9	4789.5	5226.5
72.5°	2339.2	2385.8	2851.5	4083.8	5477.3	6290.5	6154.3	5595.5	5391.3	4825.3	4614.0
75°	1110.5	1196.5	1590.5	2701.0	4800.2	6333.5	6423.0	5885.7	5197.9	4280.8	3270.6
77.5°	322.4	322.4	483.6	1146.3	3009.1	5104.7	5273.1	4997.3	4288.0	3170.3	1719.5
80°	175.5	186.3	254.3	404.8	1321.9	3220.5	3464.1	3313.6	2525.5	1253.8	444.2
82.5°	100.3	103.9	168.4	243.6	601.8	1751.7	1895.0	1719.5	960.0	379.7	207.8
85°	57.3	60.9	96.7	161.2	358.2	644.8	702.1	609.0	386.9	254.3	103.9
87.5°	28.7	28.7	46.6	75.2	182.7	182.7	179.1	218.5	232.8	154.0	46.6
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1042.4	1038.9	1038.9	1024.5	1020.9	1010.2	1010.2	1003.0	999.5	1010.2	1010.2
5°	1046.0	1028.1	1024.5	1010.2	1013.8	1006.6	1020.9	1013.8	1010.2	1010.2	1006.6
7.5°	1053.2	1035.3	1020.9	1010.2	1006.6	1017.4	1035.3	1035.3	1056.8	1046.0	1046.0
10°	1071.1	1060.4	1042.4	1035.3	1035.3	1046.0	1067.5	1081.8	1099.8	1099.8	1089.0
12.5°	1114.1	1096.2	1074.7	1063.9	1078.3	1089.0	1110.5	1124.8	1146.3	1153.5	1146.3
15°	1146.3	1128.4	1121.3	1114.1	1124.8	1139.2	1157.1	1171.4	1196.5	1203.6	1200.1
17.5°	1189.3	1167.8	1164.2	1167.8	1175.0	1185.7	1196.5	1207.2	1225.1	1225.1	1225.1
20°	1210.8	1203.6	1200.1	1210.8	1225.1	1239.5	1232.3	1225.1	1221.6	1228.7	1225.1
22.5°	1250.2	1243.0	1246.6	1257.4	1257.4	1250.2	1239.5	1214.4	1207.2	1214.4	1207.2
25°	1286.0	1278.9	1278.9	1271.7	1268.1	1243.0	1221.6	1200.1	1175.0	1185.7	1182.2
27.5°	1321.9	1318.3	1318.3	1289.6	1253.8	1210.8	1182.2	1157.1	1142.7	1160.7	1149.9
30°	1364.8	1368.4	1350.5	1282.5	1196.5	1149.9	1117.7	1114.1	1110.5	1121.3	1117.7
32.5°	1404.3	1407.8	1379.2	1271.7	1153.5	1063.9	1031.7	1035.3	1053.2	1071.1	1089.0
35°	1425.7	1443.7	1407.8	1235.9	1067.5	967.2	931.4	963.6	995.9	1020.9	1038.9
37.5°	1465.1	1511.7	1450.8	1196.5	992.3	881.2	856.2	866.9	906.3	945.7	963.6
40°	1522.5	1576.2	1461.6	1121.3	892.0	795.3	780.9	784.5	798.8	823.9	841.8
42.5°	1622.8	1680.1	1472.3	1024.5	791.7	741.5	702.1	691.4	680.6	680.6	677.0
45°	1769.6	1823.4	1458.0	902.7	691.4	655.6	626.9	601.8	573.2	526.6	533.8
47.5°	1984.6	2027.6	1468.7	795.3	598.2	569.6	548.1	519.4	476.4	426.3	422.7
50°	2310.6	2246.1	1454.4	684.2	530.2	505.1	487.2	447.8	397.6	361.8	358.2
52.5°	2690.3	2561.3	1440.1	591.1	472.9	451.4	437.0	394.1	347.5	329.6	326.0
55°	3148.8	2962.5	1461.6	508.7	429.9	412.0	397.6	358.2	322.4	308.1	304.5
57.5°	3689.7	3396.0	1579.8	444.2	383.3	376.1	372.6	340.3	308.1	297.3	293.7
60°	4198.4	3811.5	1658.6	397.6	340.3	347.5	354.6	340.3	304.5	297.3	297.3
62.5°	4624.7	4155.4	1533.2	358.2	318.8	340.3	372.6	361.8	347.5	354.6	347.5
65°	5000.9	4273.7	1146.3	336.7	308.1	358.2	412.0	408.4	376.1	383.3	379.7
67.5°	5065.3	4130.4	748.7	318.8	300.9	394.1	462.1	419.1	354.6	354.6	343.9
70°	4796.7	3747.1	501.5	300.9	297.3	394.1	472.9	394.1	333.2	333.2	318.8
72.5°	3936.9	2994.8	386.9	283.0	272.3	351.1	447.8	372.6	311.7	304.5	279.4
75°	2586.4	1930.8	315.2	268.7	236.4	308.1	404.8	343.9	297.3	275.8	265.1
77.5°	1268.1	866.9	265.1	236.4	204.2	268.7	369.0	326.0	279.4	257.9	250.8
80°	347.5	311.7	222.1	207.8	171.9	232.8	347.5	311.7	261.5	240.0	229.3
82.5°	197.0	193.4	179.1	168.4	143.3	232.8	351.1	311.7	247.2	243.6	207.8
85°	107.5	114.6	129.0	125.4	111.1	207.8	333.2	272.3	200.6	168.4	168.4
87.5°	43.0	53.7	64.5	71.6	75.2	154.0	250.8	207.8	154.0	129.0	129.0
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)