

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: P675242

Luminaire Tested: **CCW-SA-2D-727-U-T4W**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675242
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-727-U-T4W
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

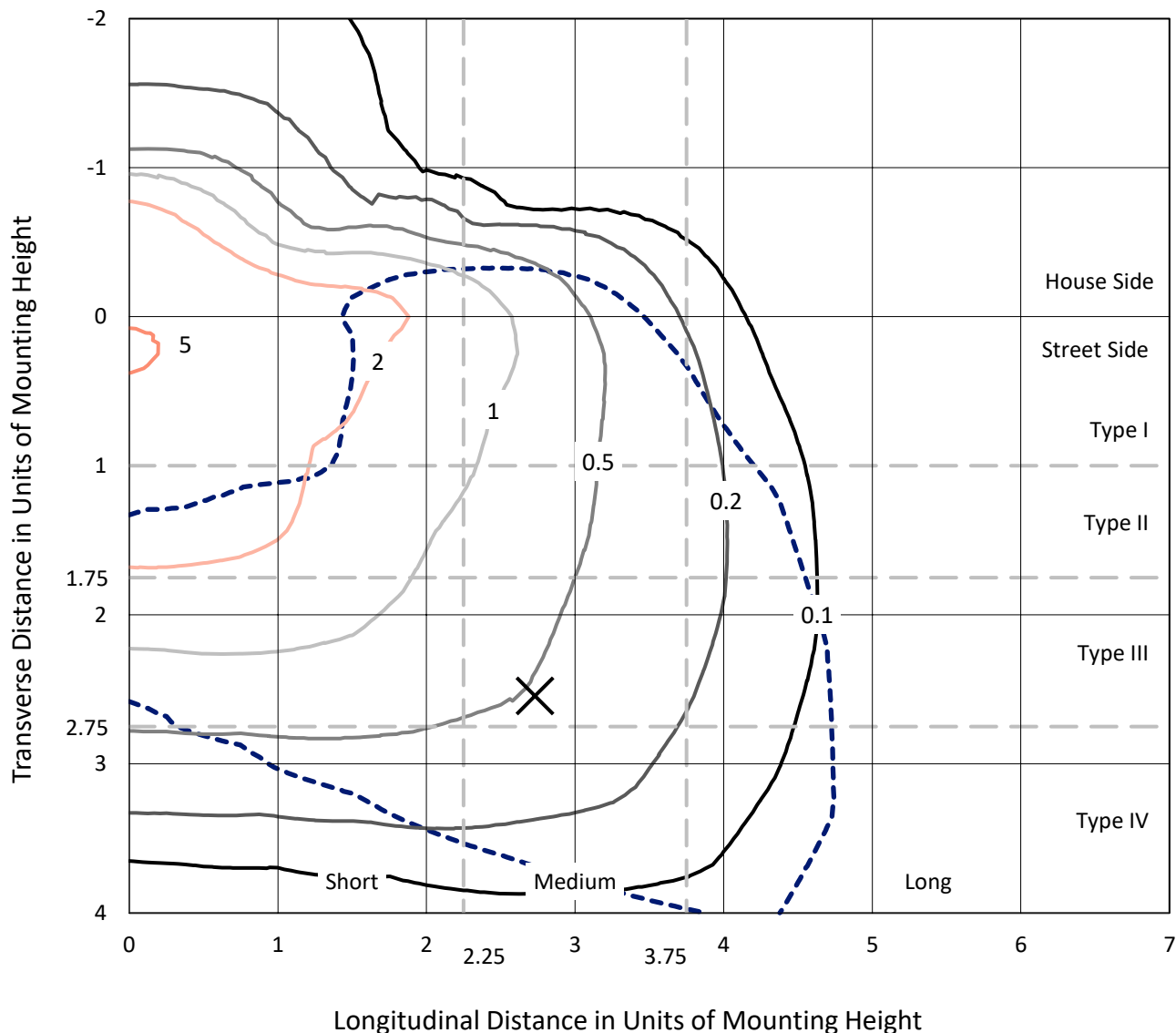
Lumens per Lamp: N/A
Luminaire Lumens: 9409.4 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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

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Iso-Footcandle Lines of Horizontal Illumination

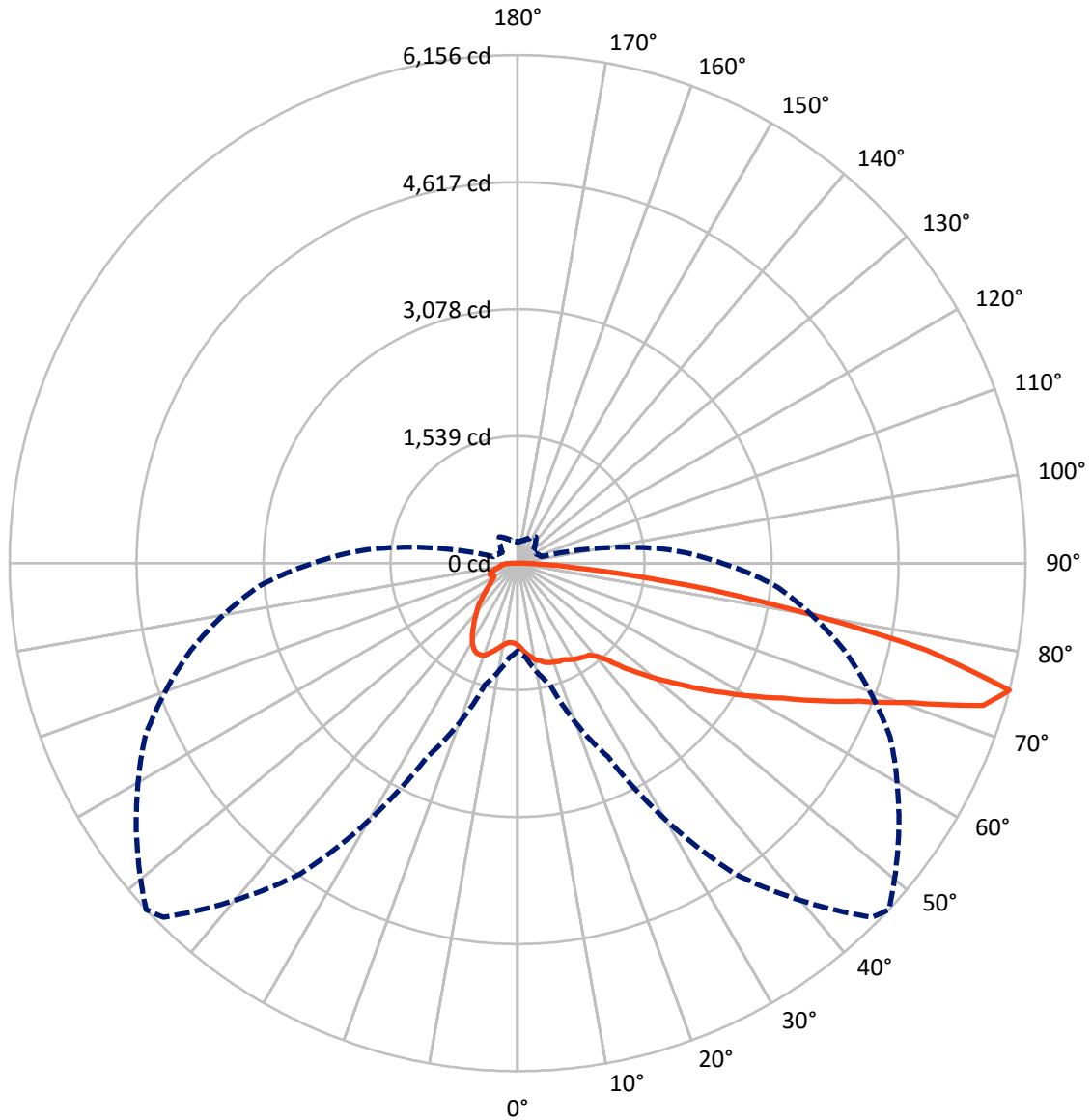
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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	2250.2	0.0	2250.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7159.1	0.0	7159.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	9409.4	0.0	9409.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.1
10°-20°	335.4	3.6
20°-30°	574.5	6.1
30°-40°	803.8	8.5
40°-50°	1120.8	11.9
50°-60°	1675.2	17.8
60°-70°	2415.3	25.7
70°-80°	2055.9	21.8
80°-90°	327.5	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°	9409.4	100.0
0°-180°	9409.4	100.0



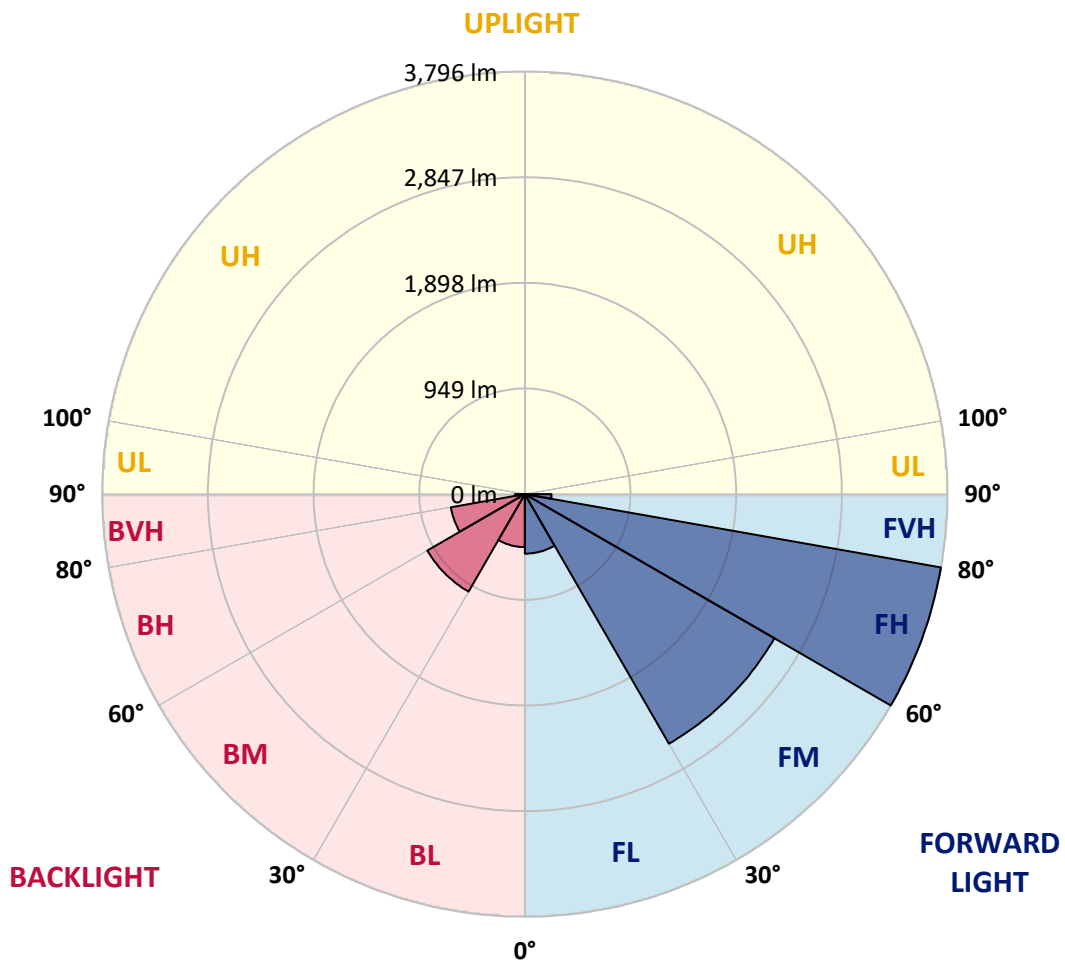
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.6	5.7			
FM (30°-60°)	2588.5	27.5			
FH (60°-80°)	3796.1	40.3			G2/5000
FVH (80°-90°)	240.0	2.6			G3/500
BL (0°-30°)	476.3	5.1	B1/500		
BM (30°-60°)	1011.3	10.7	B2/2500		
BH (60°-80°)	675.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	87.5	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°	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1
2.5°	1071.2	1074.6	1074.6	1067.7	1060.9	1047.1	1047.1	1033.4	1026.5	1009.4	1002.5
5°	1170.7	1160.4	1150.1	1146.7	1129.5	1105.5	1102.1	1088.3	1050.6	1033.4	1009.4
7.5°	1242.8	1239.4	1236.0	1222.2	1191.3	1153.6	1143.3	1122.7	1084.9	1050.6	1023.1
10°	1301.2	1314.9	1301.2	1270.3	1239.4	1198.2	1194.8	1157.0	1122.7	1081.5	1047.1
12.5°	1366.4	1369.9	1345.8	1308.1	1260.0	1225.7	1211.9	1198.2	1160.4	1126.1	1074.6
15°	1411.1	1404.2	1387.0	1335.5	1280.6	1246.3	1249.7	1232.5	1191.3	1167.3	1112.4
17.5°	1411.1	1411.1	1383.6	1345.8	1297.8	1266.9	1266.9	1256.6	1229.1	1194.8	1157.0
20°	1383.6	1383.6	1366.4	1345.8	1290.9	1284.0	1277.2	1270.3	1270.3	1239.4	1184.5
22.5°	1349.3	1342.4	1349.3	1314.9	1277.2	1284.0	1294.3	1290.9	1280.6	1253.1	1215.4
25°	1314.9	1318.4	1325.2	1301.2	1266.9	1297.8	1294.3	1311.5	1304.6	1284.0	1253.1
27.5°	1311.5	1318.4	1321.8	1297.8	1284.0	1311.5	1325.2	1342.4	1345.8	1325.2	1287.5
30°	1363.0	1359.6	1356.1	1325.2	1314.9	1339.0	1352.7	1376.7	1397.3	1352.7	1321.8
32.5°	1496.9	1476.3	1455.7	1373.3	1342.4	1359.6	1373.3	1407.6	1411.1	1387.0	1342.4
35°	1709.8	1696.0	1627.4	1483.2	1397.3	1380.2	1393.9	1417.9	1424.8	1407.6	1373.3
37.5°	1953.5	1946.7	1850.5	1675.4	1510.6	1428.2	1414.5	1448.8	1476.3	1438.5	1390.5
40°	2193.8	2166.4	2097.7	1926.1	1654.8	1500.3	1483.2	1500.3	1510.6	1483.2	1452.3
42.5°	2410.1	2379.2	2362.1	2190.4	1843.7	1620.5	1606.8	1565.6	1596.5	1562.1	1520.9
45°	2592.1	2585.2	2578.4	2430.7	2060.0	1816.2	1805.9	1699.5	1733.8	1706.3	1648.0
47.5°	2722.6	2753.5	2743.2	2660.8	2307.1	2025.6	1994.7	1857.4	1908.9	1881.4	1823.1
50°	2877.1	2894.2	2883.9	2829.0	2537.2	2265.9	2207.6	2066.8	2125.2	2121.7	2090.9
52.5°	3014.4	3065.9	3007.5	3004.1	2866.8	2526.9	2427.3	2293.4	2389.5	2427.3	2423.9
55°	3175.8	3217.0	3199.8	3192.9	3162.0	2780.9	2691.7	2530.3	2691.7	2746.6	2794.7
57.5°	3313.1	3309.7	3374.9	3453.9	3491.6	3072.8	2966.3	2777.5	3021.3	3083.1	3217.0
60°	3374.9	3433.3	3543.1	3742.2	3848.7	3385.2	3275.3	3124.3	3354.3	3402.4	3649.5
62.5°	3416.1	3467.6	3680.4	4016.9	4078.7	3704.5	3601.5	3450.4	3718.2	3752.5	4119.9
65°	3302.8	3350.9	3773.1	4119.9	4339.6	4047.8	4023.8	3865.8	4082.1	4102.7	4614.3
67.5°	3172.3	3223.8	3694.2	4250.4	4686.4	4504.4	4466.7	4277.8	4442.6	4418.6	4991.9
70°	2942.3	3011.0	3491.6	4363.7	5070.9	5143.0	5067.5	4799.7	4816.9	4590.3	5009.1
72.5°	2241.9	2286.5	2732.9	3913.9	5249.4	6028.8	5898.3	5362.7	5167.0	4624.6	4422.0
75°	1064.3	1146.7	1524.4	2588.7	4600.6	6070.0	6155.8	5640.8	4981.6	4102.7	3134.6
77.5°	309.0	309.0	463.5	1098.6	2883.9	4892.4	5053.7	4789.4	4109.6	3038.4	1648.0
80°	168.2	178.5	243.8	388.0	1266.9	3086.5	3320.0	3175.8	2420.4	1201.6	425.7
82.5°	96.1	99.6	161.4	233.5	576.8	1678.9	1816.2	1648.0	920.1	363.9	199.1
85°	54.9	58.4	92.7	154.5	343.3	618.0	672.9	583.7	370.8	243.8	99.6
87.5°	27.5	27.5	44.6	72.1	175.1	175.1	171.7	209.4	223.2	147.6	44.6
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°	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1	999.1
2.5°	999.1	995.6	995.6	981.9	978.5	968.2	968.2	961.3	957.9	968.2	968.2
5°	1002.5	985.3	981.9	968.2	971.6	964.7	978.5	971.6	968.2	968.2	964.7
7.5°	1009.4	992.2	978.5	968.2	964.7	975.0	992.2	992.2	1012.8	1002.5	1002.5
10°	1026.5	1016.2	999.1	992.2	992.2	1002.5	1023.1	1036.8	1054.0	1054.0	1043.7
12.5°	1067.7	1050.6	1030.0	1019.7	1033.4	1043.7	1064.3	1078.0	1098.6	1105.5	1098.6
15°	1098.6	1081.5	1074.6	1067.7	1078.0	1091.8	1108.9	1122.7	1146.7	1153.6	1150.1
17.5°	1139.8	1119.2	1115.8	1119.2	1126.1	1136.4	1146.7	1157.0	1174.2	1174.2	1174.2
20°	1160.4	1153.6	1150.1	1160.4	1174.2	1187.9	1181.0	1174.2	1170.7	1177.6	1174.2
22.5°	1198.2	1191.3	1194.8	1205.1	1205.1	1198.2	1187.9	1163.9	1157.0	1163.9	1157.0
25°	1232.5	1225.7	1225.7	1218.8	1215.4	1191.3	1170.7	1150.1	1126.1	1136.4	1133.0
27.5°	1266.9	1263.4	1263.4	1236.0	1201.6	1160.4	1133.0	1108.9	1095.2	1112.4	1102.1
30°	1308.1	1311.5	1294.3	1229.1	1146.7	1102.1	1071.2	1067.7	1064.3	1074.6	1071.2
32.5°	1345.8	1349.3	1321.8	1218.8	1105.5	1019.7	988.8	992.2	1009.4	1026.5	1043.7
35°	1366.4	1383.6	1349.3	1184.5	1023.1	927.0	892.6	923.5	954.4	978.5	995.6
37.5°	1404.2	1448.8	1390.5	1146.7	951.0	844.6	820.5	830.8	868.6	906.4	923.5
40°	1459.1	1510.6	1400.8	1074.6	854.9	762.2	748.4	751.9	765.6	789.6	806.8
42.5°	1555.3	1610.2	1411.1	981.9	758.7	710.7	672.9	662.6	652.3	652.3	648.9
45°	1696.0	1747.5	1397.3	865.2	662.6	628.3	600.8	576.8	549.3	504.7	511.6
47.5°	1902.0	1943.2	1407.6	762.2	573.4	545.9	525.3	497.8	456.6	408.6	405.1
50°	2214.4	2152.6	1393.9	655.8	508.1	484.1	466.9	429.2	381.1	346.8	343.3
52.5°	2578.4	2454.8	1380.2	566.5	453.2	432.6	418.9	377.7	333.0	315.9	312.4
55°	3017.8	2839.3	1400.8	487.5	412.0	394.8	381.1	343.3	309.0	295.3	291.8
57.5°	3536.2	3254.7	1514.1	425.7	367.4	360.5	357.1	326.2	295.3	285.0	281.5
60°	4023.8	3653.0	1589.6	381.1	326.2	333.0	339.9	326.2	291.8	285.0	285.0
62.5°	4432.3	3982.6	1469.4	343.3	305.6	326.2	357.1	346.8	333.0	339.9	333.0
65°	4792.8	4095.9	1098.6	322.7	295.3	343.3	394.8	391.4	360.5	367.4	363.9
67.5°	4854.6	3958.5	717.5	305.6	288.4	377.7	442.9	401.7	339.9	339.9	329.6
70°	4597.1	3591.2	480.7	288.4	285.0	377.7	453.2	377.7	319.3	319.3	305.6
72.5°	3773.1	2870.2	370.8	271.2	260.9	336.5	429.2	357.1	298.7	291.8	267.8
75°	2478.8	1850.5	302.1	257.5	226.6	295.3	388.0	329.6	285.0	264.4	254.1
77.5°	1215.4	830.8	254.1	226.6	195.7	257.5	353.6	312.4	267.8	247.2	240.3
80°	333.0	298.7	212.9	199.1	164.8	223.2	333.0	298.7	250.6	230.0	219.7
82.5°	188.8	185.4	171.7	161.4	137.3	223.2	336.5	298.7	236.9	233.5	199.1
85°	103.0	109.9	123.6	120.2	106.4	199.1	319.3	260.9	192.3	161.4	161.4
87.5°	41.2	51.5	61.8	68.7	72.1	147.6	240.3	199.1	147.6	123.6	123.6
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)