

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: P671044

Luminaire Tested: **CCP-SA-2D-850-U-T4FT**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671044
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-850-U-T4FT
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

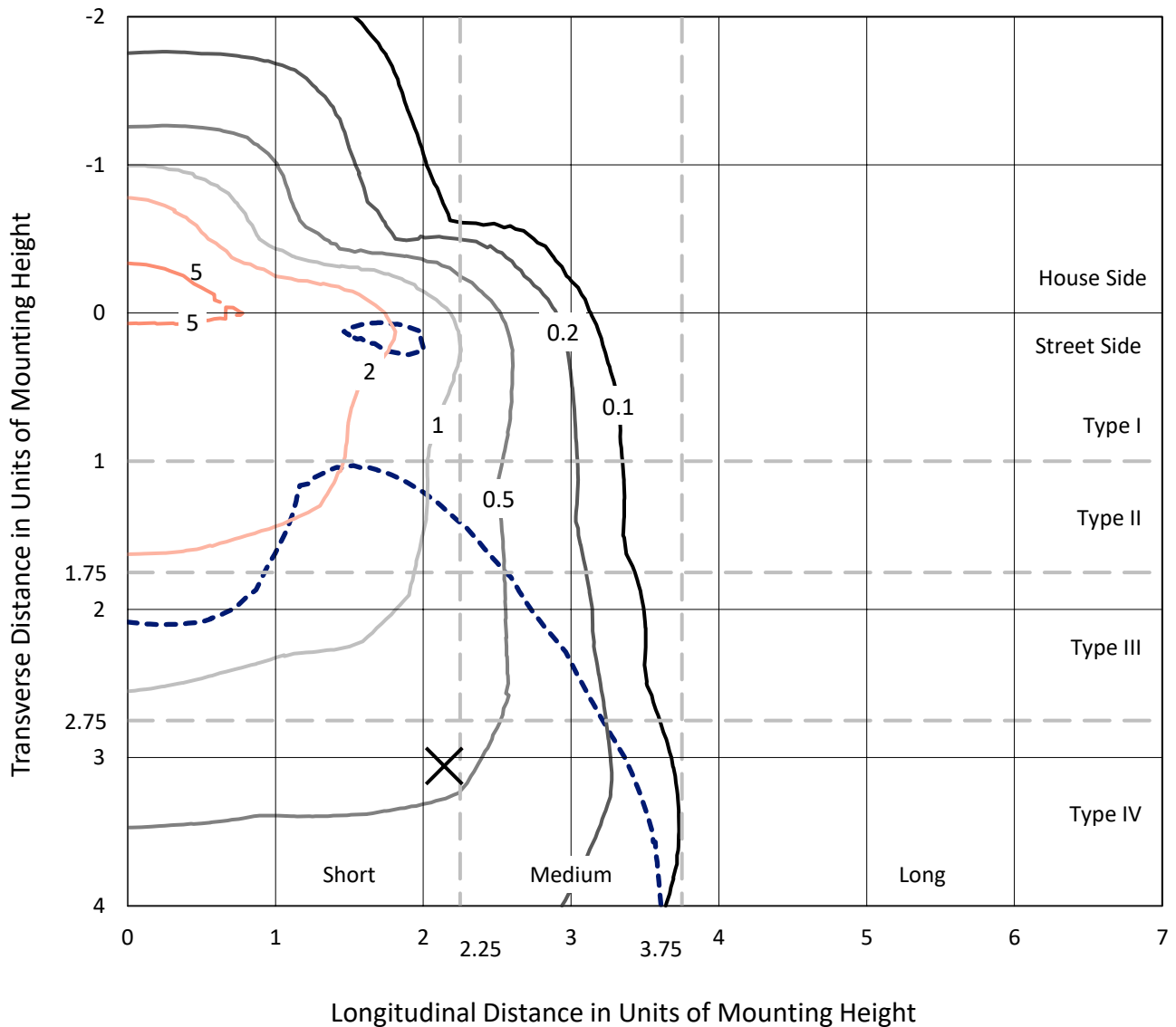
Lumens per Lamp: N/A
Luminaire Lumens: 9725.9 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

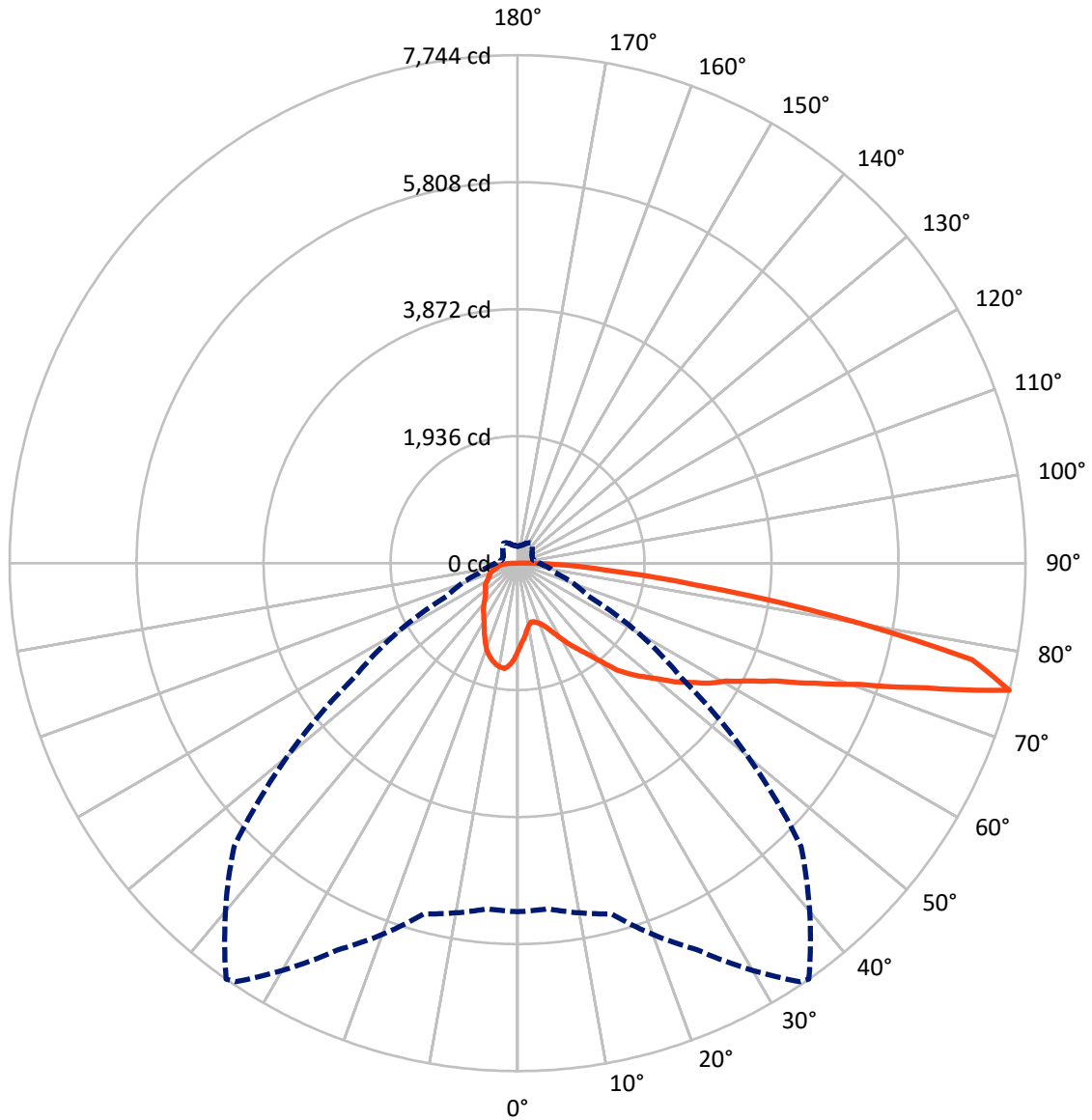
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.3	0.0	2235.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7490.6	0.0	7490.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	9725.9	0.0	9725.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	1.3
10°-20°	368.5	3.8
20°-30°	611.5	6.3
30°-40°	906.4	9.3
40°-50°	1306.9	13.4
50°-60°	1797.2	18.5
60°-70°	2220.0	22.8
70°-80°	2030.9	20.9
80°-90°	357.5	3.7
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°	9725.9	100.0
0°-180°	9725.9	100.0



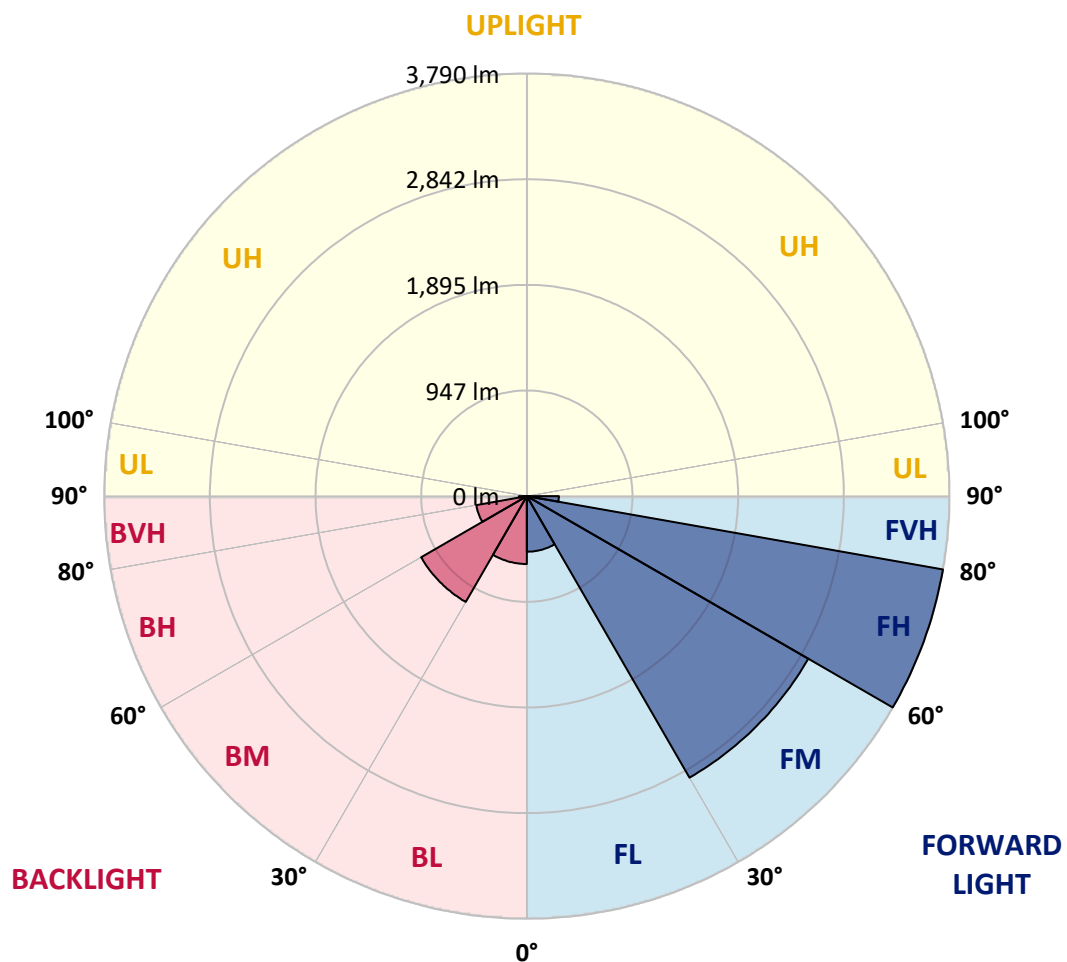
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	498.5	5.1			
FM (30°-60°)	2915.2	30.0			
FH (60°-80°)	3790.0	39.0			G2/5000
FVH (80°-90°)	286.9	3.0			G3/500
BL (0°-30°)	608.4	6.3	B2/1000		
BM (30°-60°)	1095.3	11.3	B2/2500		
BH (60°-80°)	460.9	4.7	B1/500		G1/500
BVH (80°-90°)	70.6	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1207.1	1196.4	1207.1	1214.3	1214.3	1214.3	1225.0	1257.3	1278.8	1293.1	1318.2
5°	1081.8	1085.3	1092.5	1110.4	1121.2	1128.3	1146.2	1185.6	1217.9	1264.4	1318.2
7.5°	970.7	977.9	988.6	1006.5	1031.6	1028.0	1067.4	1121.2	1182.1	1243.0	1321.8
10°	913.4	927.7	931.3	934.9	960.0	960.0	1013.7	1074.6	1149.8	1228.6	1321.8
12.5°	924.2	924.2	913.4	909.8	924.2	920.6	967.1	1038.8	1121.2	1232.2	1336.1
15°	956.4	956.4	934.9	913.4	934.9	927.7	967.1	1024.5	1121.2	1235.8	1364.7
17.5°	999.4	1003.0	977.9	942.1	949.2	952.8	981.5	1035.2	1121.2	1243.0	1404.1
20°	1085.3	1067.4	1028.0	970.7	995.8	985.1	1028.0	1074.6	1142.7	1271.6	1461.5
22.5°	1160.6	1160.6	1085.3	1035.2	1038.8	1038.8	1078.2	1117.6	1174.9	1311.0	1504.4
25°	1282.4	1275.2	1182.1	1106.8	1114.0	1117.6	1139.1	1185.6	1228.6	1332.5	1558.2
27.5°	1436.4	1418.5	1325.3	1239.4	1210.7	1221.5	1232.2	1268.0	1278.8	1368.3	1622.6
30°	1601.2	1576.1	1497.3	1361.2	1346.8	1350.4	1332.5	1354.0	1339.7	1425.6	1687.1
32.5°	1705.0	1705.0	1629.8	1529.5	1490.1	1490.1	1429.2	1443.5	1443.5	1479.4	1801.7
35°	1794.6	1787.4	1737.3	1662.1	1637.0	1622.6	1561.8	1583.2	1547.4	1583.2	1962.9
37.5°	1930.7	1909.2	1887.7	1837.6	1787.4	1776.7	1744.4	1758.8	1708.6	1690.7	2145.6
40°	2088.3	2077.6	2056.1	2034.6	1984.4	1980.8	1945.0	1959.4	1905.6	1837.6	2328.3
42.5°	2321.1	2288.9	2220.8	2202.9	2213.7	2228.0	2213.7	2188.6	2091.9	2005.9	2525.3
45°	2554.0	2503.8	2374.9	2346.2	2428.6	2417.9	2478.7	2468.0	2310.4	2174.3	2733.1
47.5°	2704.4	2661.4	2557.6	2539.6	2575.5	2589.8	2772.5	2740.2	2489.5	2328.3	2933.7
50°	2811.9	2815.5	2679.3	2725.9	2772.5	2772.5	3001.7	2998.1	2708.0	2518.2	3195.2
52.5°	2969.5	2919.3	2862.0	2905.0	2969.5	3005.3	3288.3	3209.5	2844.1	2679.3	3488.9
55°	3051.9	3030.4	2980.2	3055.5	3191.6	3209.5	3510.4	3449.5	2998.1	2869.2	3789.8
57.5°	3084.1	3102.0	3184.4	3216.6	3406.5	3453.1	3711.0	3625.0	3141.4	3105.6	4022.6
60°	3227.4	3202.3	3313.4	3442.3	3625.0	3650.1	3961.7	3775.4	3281.1	3259.6	4097.8
62.5°	3517.5	3453.1	3513.9	3668.0	3922.3	3954.5	4226.8	3976.0	3342.0	3363.5	4094.2
65°	3940.2	3893.6	3804.1	3925.9	4284.1	4330.6	4538.4	4148.0	3324.1	3327.7	3804.1
67.5°	4438.1	4362.9	4269.8	4345.0	4782.0	4889.4	4918.1	4223.2	3198.7	3127.1	3094.9
70°	4875.1	4825.0	4764.1	4893.0	5502.0	5541.4	5390.9	4176.6	2851.3	2511.0	2063.2
72.5°	5283.5	5258.4	5294.2	5777.8	6476.3	6501.3	5835.1	3882.9	2253.1	1522.4	960.0
75°	5315.7	5290.6	5537.8	6508.5	7697.7	7744.3	6110.9	3044.7	1189.2	619.7	404.8
77.5°	3599.9	3675.1	4137.2	5699.0	7070.9	7081.6	4996.9	1414.9	490.7	365.4	283.0
80°	884.8	981.5	1558.2	2948.0	4767.7	4885.9	2736.7	476.4	322.4	279.4	211.3
82.5°	322.4	351.0	634.0	1332.5	2679.3	2725.9	956.4	257.9	232.8	214.9	154.0
85°	154.0	157.6	300.9	655.5	1354.0	1339.7	343.9	154.0	168.4	146.9	93.1
87.5°	64.5	64.5	132.5	304.5	598.2	580.3	111.0	71.6	96.7	86.0	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°	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5	1332.5
2.5°	1336.1	1343.3	1371.9	1393.4	1414.9	1432.8	1461.5	1461.5	1479.4	1479.4	1479.4
5°	1332.5	1371.9	1418.5	1468.6	1500.9	1533.1	1561.8	1565.3	1576.1	1590.4	1594.0
7.5°	1346.8	1386.2	1461.5	1533.1	1572.5	1586.8	1622.6	1611.9	1611.9	1611.9	1622.6
10°	1375.5	1418.5	1522.4	1586.8	1615.5	1619.1	1608.3	1601.2	1579.7	1572.5	1561.8
12.5°	1397.0	1472.2	1576.1	1626.2	1615.5	1604.7	1579.7	1543.8	1518.8	1511.6	1511.6
15°	1450.7	1525.9	1622.6	1640.6	1622.6	1565.3	1533.1	1493.7	1472.2	1440.0	1454.3
17.5°	1497.3	1583.2	1669.2	1647.7	1611.9	1522.4	1475.8	1418.5	1389.8	1354.0	1354.0
20°	1558.2	1637.0	1712.2	1654.9	1576.1	1479.4	1404.1	1332.5	1293.1	1257.3	1264.4
22.5°	1626.2	1697.9	1737.3	1626.2	1522.4	1411.3	1307.4	1239.4	1189.2	1167.7	1174.9
25°	1680.0	1758.8	1751.6	1579.7	1457.9	1325.3	1210.7	1146.2	1135.5	1114.0	1114.0
27.5°	1748.0	1830.4	1740.9	1522.4	1350.4	1189.2	1117.6	1092.5	1092.5	1081.8	1088.9
30°	1837.6	1894.9	1715.8	1440.0	1214.3	1067.4	1031.6	1045.9	1071.0	1060.3	1063.9
32.5°	1984.4	1977.3	1694.3	1346.8	1071.0	949.2	974.3	1003.0	1024.5	1035.2	1042.4
35°	2127.7	2081.1	1669.2	1221.5	938.5	891.9	913.4	945.6	985.1	995.8	999.4
37.5°	2271.0	2188.6	1626.2	1067.4	856.1	841.8	863.3	881.2	913.4	920.6	927.7
40°	2421.4	2260.2	1551.0	917.0	788.0	788.0	802.4	806.0	823.9	834.6	841.8
42.5°	2554.0	2328.3	1414.9	777.3	716.4	741.5	745.1	737.9	723.6	730.7	734.3
45°	2715.2	2403.5	1257.3	677.0	662.7	694.9	702.1	673.4	648.3	634.0	626.9
47.5°	2872.8	2482.3	1121.2	594.6	612.5	662.7	662.7	630.4	587.4	551.6	537.3
50°	3016.0	2561.1	1010.1	544.5	562.4	637.6	644.8	583.9	537.3	494.3	487.2
52.5°	3256.0	2693.7	895.5	505.1	533.7	619.7	616.1	562.4	501.5	454.9	451.3
55°	3467.4	2826.2	745.1	465.7	505.1	594.6	605.4	540.9	458.5	415.5	408.3
57.5°	3621.4	2858.4	594.6	426.3	476.4	566.0	580.3	497.9	429.8	394.0	390.4
60°	3650.1	2733.1	483.6	394.0	437.0	526.6	537.3	472.8	408.3	379.7	372.5
62.5°	3517.5	2493.1	411.9	365.4	404.8	487.2	508.6	444.2	386.9	361.8	358.2
65°	3216.6	2142.0	361.8	340.3	383.3	458.5	483.6	422.7	368.9	347.5	343.9
67.5°	2546.8	1644.1	322.4	322.4	354.6	429.8	465.7	408.3	351.0	336.7	333.1
70°	1665.6	988.6	293.7	297.3	333.1	404.8	444.2	390.4	329.5	326.0	318.8
72.5°	716.4	454.9	261.5	272.2	300.9	361.8	411.9	365.4	304.5	293.7	283.0
75°	329.5	275.8	236.4	243.6	268.7	318.8	372.5	336.7	283.0	265.1	254.3
77.5°	232.8	200.6	197.0	211.3	229.2	275.8	329.5	315.2	261.5	247.2	240.0
80°	171.9	154.0	164.8	179.1	189.8	254.3	311.6	290.1	240.0	218.5	207.8
82.5°	121.8	114.6	129.0	143.3	154.0	222.1	286.6	254.3	200.6	182.7	164.8
85°	71.6	75.2	89.6	96.7	107.5	164.8	240.0	204.2	154.0	118.2	114.6
87.5°	32.2	32.2	43.0	46.6	53.7	96.7	161.2	129.0	96.7	75.2	71.6
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)