

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: P674778

Luminaire Tested: **CCP-SA-2E-840-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-840-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

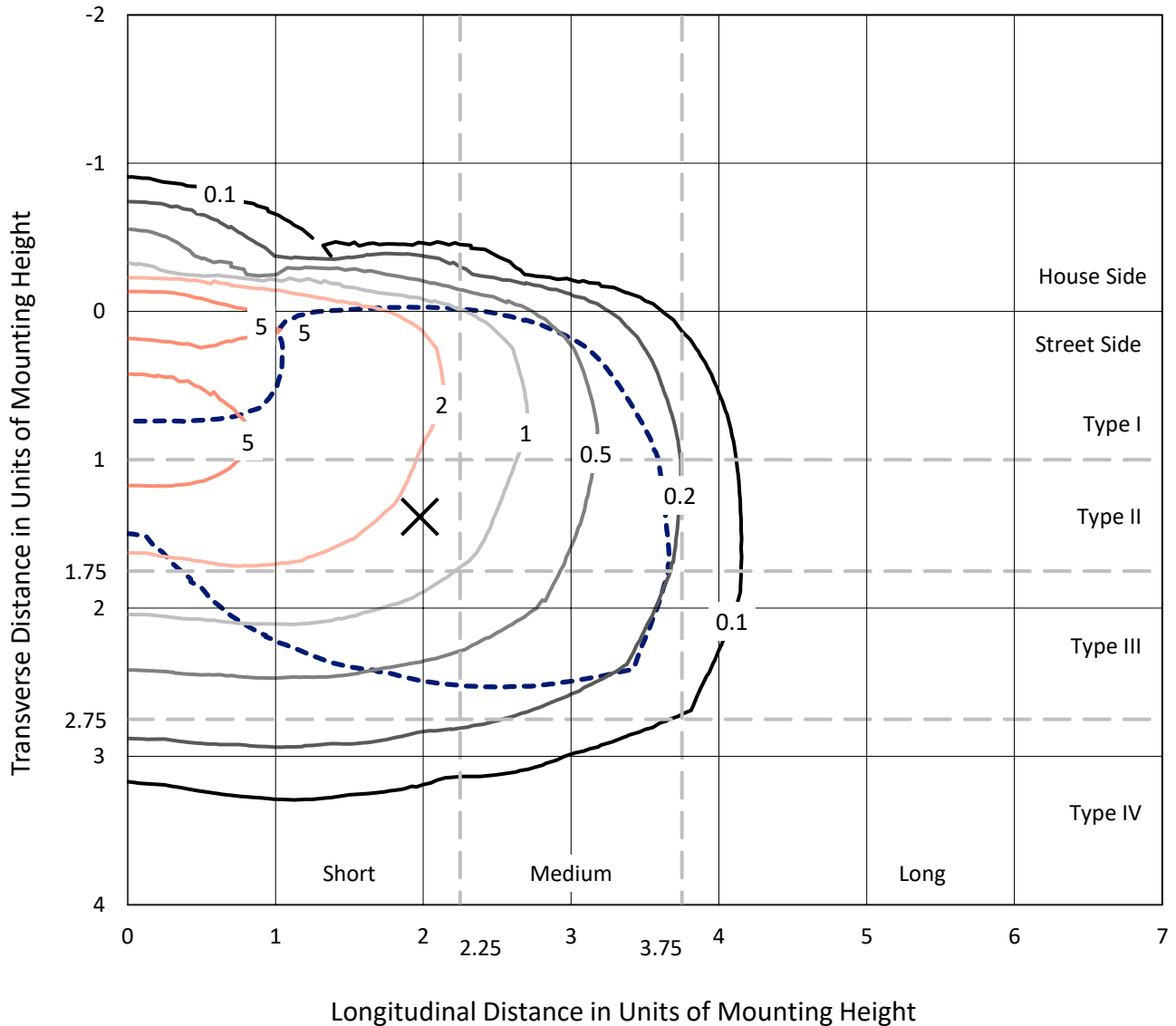
Lumens per Lamp: N/A
Luminaire Lumens: 9245.6 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

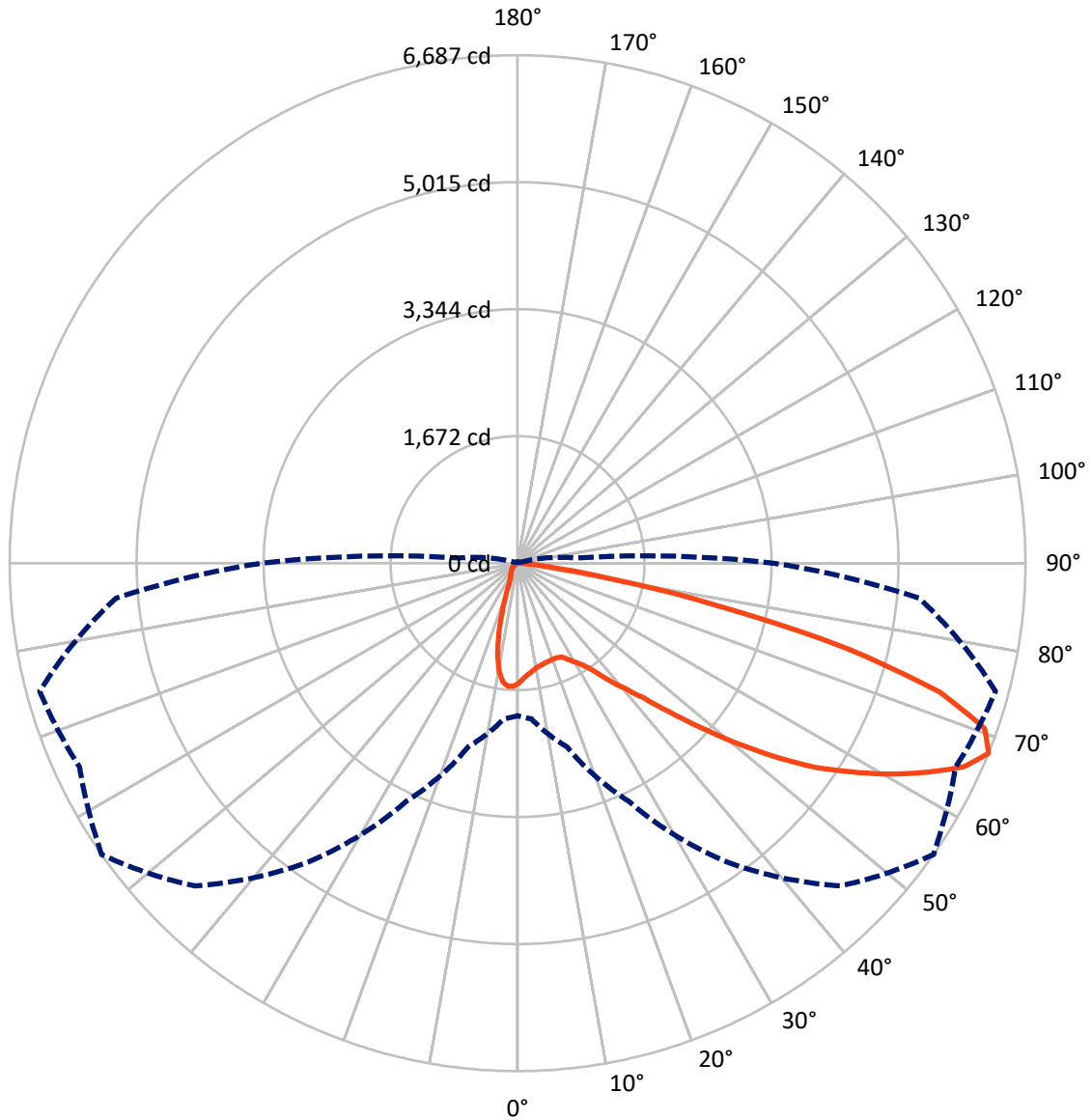
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	830.6	0.0	830.6
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	8415.0	0.0	8415.0
	% Fixture	91.0	0.0	91.0
Total	Lumens	9245.6	0.0	9245.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.5
10°-20°	316.6	3.4
20°-30°	508.0	5.5
30°-40°	881.0	9.5
40°-50°	1469.0	15.9
50°-60°	2148.1	23.2
60°-70°	2504.7	27.1
70°-80°	1215.6	13.1
80°-90°	63.6	0.7
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°	9245.6	100.0
0°-180°	9245.6	100.0



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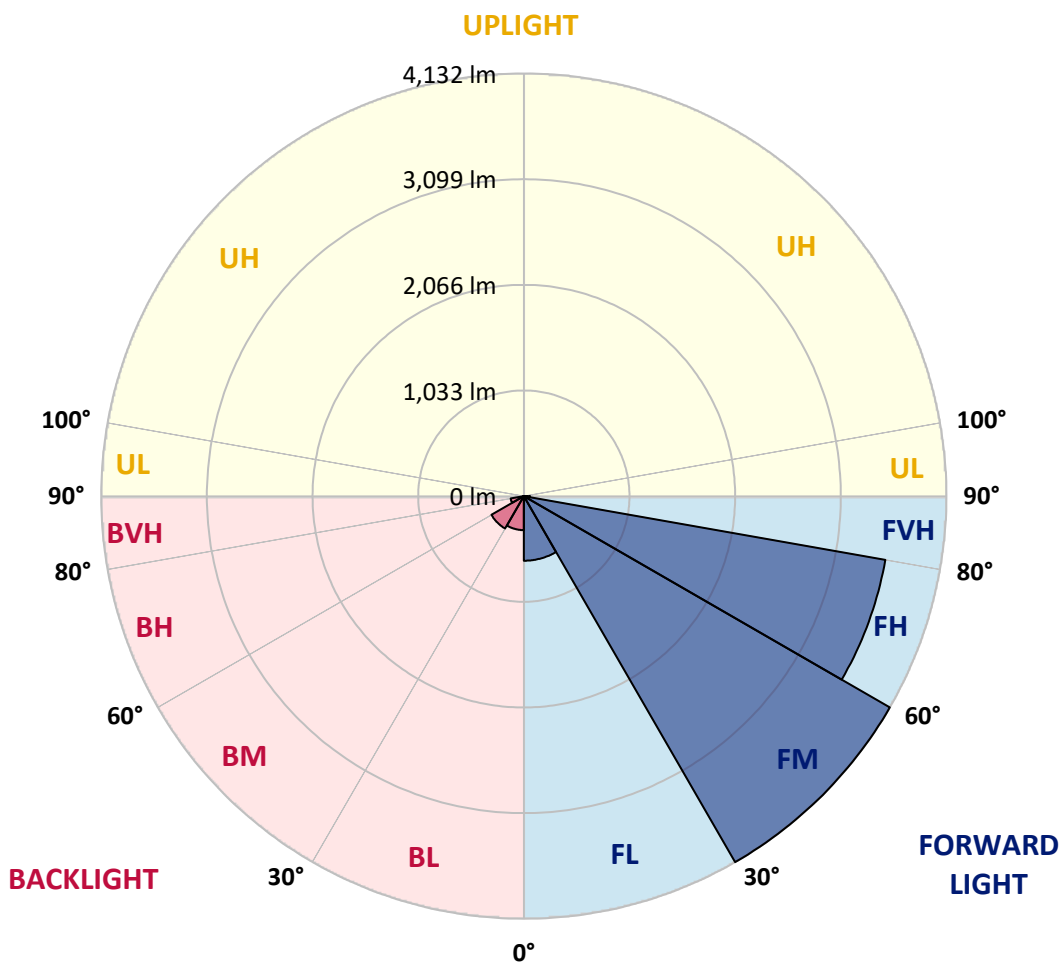
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	631.6	6.8			
FM (30°-60°)	4132.5	44.7			
FH (60°-80°)	3589.3	38.8			G2/5000
FVH (80°-90°)	61.7	0.7			G1/100
BL (0°-30°)	332.0	3.6	B1/500		
BM (30°-60°)	365.7	4.0	B1/1000		
BH (60°-80°)	131.0	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4
2.5°	1462.6	1472.0	1483.9	1488.2	1502.7	1523.1	1517.1	1512.9	1535.9	1567.4	1577.6
5°	1371.5	1372.3	1391.1	1404.7	1429.4	1449.0	1470.3	1468.6	1510.3	1564.0	1598.1
7.5°	1282.0	1283.7	1303.3	1324.6	1360.4	1398.7	1431.1	1429.4	1496.7	1568.2	1633.0
10°	1164.5	1173.0	1196.8	1234.3	1290.5	1351.0	1396.2	1400.4	1481.4	1584.4	1680.7
12.5°	1069.9	1074.2	1100.6	1149.1	1215.6	1294.8	1379.1	1376.6	1484.8	1614.2	1742.9
15°	1029.9	1027.3	1043.5	1079.3	1155.1	1254.8	1362.1	1368.1	1496.7	1648.3	1807.6
17.5°	1039.2	1036.7	1045.2	1058.0	1111.7	1221.5	1352.7	1362.9	1515.4	1684.1	1868.1
20°	1143.2	1125.3	1110.0	1096.3	1104.0	1194.3	1346.8	1357.8	1526.5	1711.4	1932.0
22.5°	1343.4	1321.2	1280.3	1204.5	1154.2	1196.0	1348.5	1362.9	1551.2	1755.6	2009.5
25°	1669.6	1648.3	1560.6	1405.5	1272.7	1257.3	1371.5	1386.8	1608.3	1822.9	2092.1
27.5°	2101.5	2053.8	1947.3	1725.0	1468.6	1355.3	1440.5	1457.5	1689.2	1874.9	2148.3
30°	2460.1	2449.0	2346.8	2074.2	1738.6	1499.2	1518.0	1527.4	1725.8	1906.4	2204.6
32.5°	2832.4	2809.4	2715.7	2450.8	2052.1	1704.5	1604.9	1609.1	1773.5	1953.3	2286.3
35°	3156.1	3134.8	3056.4	2799.2	2418.4	1980.5	1748.8	1739.5	1872.4	2056.4	2397.1
37.5°	3455.9	3453.4	3384.4	3122.0	2747.2	2266.8	1960.9	1953.3	2026.5	2169.6	2547.0
40°	3749.0	3742.1	3683.4	3444.0	3070.9	2552.1	2162.8	2143.2	2157.7	2328.1	2744.6
42.5°	3928.7	3943.2	3963.6	3812.0	3455.1	2886.9	2418.4	2406.5	2403.9	2576.0	3004.5
45°	4025.8	4051.4	4171.5	4157.8	3862.3	3303.4	2782.1	2751.5	2741.2	2916.7	3301.7
47.5°	4120.4	4131.4	4328.2	4410.8	4252.4	3737.9	3221.7	3179.1	3137.3	3332.4	3657.0
50°	4126.3	4144.2	4387.8	4588.9	4579.5	4165.5	3714.9	3677.4	3629.7	3838.4	4003.7
52.5°	4042.8	4078.6	4380.2	4701.3	4782.2	4542.9	4226.8	4196.2	4157.0	4312.9	4295.8
55°	3466.2	3526.6	4230.3	4711.5	4924.5	4866.6	4741.4	4698.8	4660.4	4771.2	4582.1
57.5°	3191.9	3225.9	3775.4	4703.9	5105.9	5166.4	5187.7	5168.1	5114.5	5252.5	4881.1
60°	3027.5	3076.9	3558.2	4618.7	5301.9	5505.5	5639.2	5600.0	5534.4	5724.4	5201.4
62.5°	2830.7	2866.5	3341.8	4373.4	5418.6	5850.5	6062.6	6026.8	5891.3	6159.7	5460.3
65°	2467.8	2521.5	2997.6	3987.5	5261.8	6103.5	6461.2	6449.3	6214.2	6488.5	5531.0
67.5°	2008.6	2057.2	2501.0	3458.5	4803.5	6008.9	6687.0	6649.5	6360.7	6513.2	5307.0
70°	1507.8	1534.2	1868.9	2642.4	3935.5	5503.8	6523.4	6515.8	6138.4	6146.9	4619.5
72.5°	809.3	882.5	1242.8	1768.4	2767.6	4457.7	5813.8	5783.2	5476.5	5034.4	3322.2
75°	282.8	304.1	661.9	993.2	1503.5	2969.5	4470.5	4398.9	4095.7	3274.5	1810.2
77.5°	173.8	190.8	293.9	507.7	585.2	1288.8	2685.9	2593.0	2397.1	1415.8	618.4
80°	120.1	135.4	196.8	265.8	199.3	417.4	1236.0	1201.1	924.3	337.3	142.3
82.5°	67.3	80.9	149.1	130.3	80.1	108.2	428.5	397.0	246.2	91.1	47.7
85°	39.2	46.9	104.8	92.0	40.9	38.3	111.6	99.7	63.9	34.1	23.0
87.5°	20.4	26.4	76.7	61.3	24.7	13.6	25.6	24.7	16.2	11.9	15.3
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°	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4
2.5°	1596.4	1592.1	1614.2	1621.9	1620.2	1616.8	1625.3	1614.2	1613.4	1610.8	1608.3
5°	1625.3	1632.1	1650.0	1650.0	1626.2	1587.0	1563.1	1530.8	1503.5	1487.3	1484.8
7.5°	1668.8	1682.4	1694.3	1657.7	1575.9	1478.8	1375.7	1294.8	1224.1	1187.5	1184.1
10°	1730.1	1742.9	1733.5	1628.7	1453.2	1252.2	1084.4	915.7	831.4	785.4	785.4
12.5°	1803.4	1813.6	1756.5	1556.3	1251.4	960.0	736.0	558.8	474.5	420.0	416.6
15°	1882.6	1885.1	1753.1	1430.2	1001.8	644.8	422.5	310.1	274.3	266.6	264.9
17.5°	1951.6	1941.4	1717.3	1243.7	721.5	384.2	268.3	242.8	236.0	236.0	236.0
20°	2016.3	1982.2	1645.8	1026.5	462.6	261.5	230.8	224.0	224.0	224.9	224.9
22.5°	2087.9	2020.6	1543.5	785.4	297.3	224.0	216.4	213.0	212.1	214.7	213.8
25°	2172.2	2058.1	1397.0	542.6	230.0	208.7	205.3	201.9	201.9	201.9	201.9
27.5°	2219.1	2052.9	1230.1	342.4	201.0	193.4	190.0	186.6	184.0	183.1	184.0
30°	2259.9	2023.1	1012.0	239.4	181.4	172.9	170.4	166.1	161.0	159.3	159.3
32.5°	2313.6	1998.4	783.7	192.5	164.4	155.0	147.4	140.6	132.0	128.6	127.8
35°	2373.2	1953.3	574.1	169.5	149.1	137.1	125.2	114.1	103.1	99.7	98.8
37.5°	2447.3	1912.4	389.3	156.7	136.3	121.8	105.6	90.3	80.1	78.4	78.4
40°	2547.9	1878.3	269.2	145.7	124.4	107.3	87.7	71.6	64.7	63.0	63.0
42.5°	2685.0	1850.2	203.6	136.3	114.1	92.9	70.7	58.8	53.7	52.0	52.0
45°	2846.9	1806.8	172.1	127.8	103.9	78.4	58.8	49.4	46.9	46.9	46.9
47.5°	3032.6	1752.2	156.7	119.3	92.9	63.9	49.4	45.1	44.3	44.3	45.1
50°	3220.0	1687.5	145.7	109.0	80.1	54.5	45.1	42.6	42.6	43.4	43.4
52.5°	3346.9	1586.1	134.6	98.0	67.3	47.7	42.6	41.7	40.9	40.9	40.9
55°	3470.4	1497.5	119.3	86.0	56.2	44.3	40.9	40.0	40.0	39.2	39.2
57.5°	3599.0	1427.7	99.7	71.6	47.7	41.7	39.2	39.2	37.5	36.6	36.6
60°	3748.1	1366.4	76.7	56.2	41.7	39.2	36.6	35.8	34.1	32.4	32.4
62.5°	3791.6	1236.9	57.9	45.1	35.8	34.1	33.2	31.5	27.3	23.9	24.7
65°	3678.3	1033.3	46.0	35.8	29.0	29.0	26.4	22.1	17.9	15.3	15.3
67.5°	3365.6	771.8	37.5	28.1	23.0	22.1	18.7	16.2	11.1	9.4	9.4
70°	2773.6	510.3	30.7	22.1	18.7	15.3	12.8	11.9	8.5	6.8	6.8
72.5°	1943.9	276.8	25.6	17.9	13.6	10.2	8.5	7.7	6.0	5.1	4.3
75°	1026.5	106.5	20.4	13.6	8.5	6.8	5.1	5.1	4.3	3.4	3.4
77.5°	351.8	45.1	14.5	7.7	6.0	4.3	3.4	2.6	3.4	2.6	2.6
80°	83.5	26.4	9.4	5.1	3.4	2.6	2.6	1.7	1.7	1.7	1.7
82.5°	36.6	15.3	6.0	3.4	3.4	2.6	1.7	0.9	0.9	0.9	0.9
85°	24.7	9.4	4.3	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
87.5°	19.6	6.0	3.4	3.4	2.6	1.7	0.9	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)