

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: P673549

Luminaire Tested: **CCP-SA-2E-735-U-T4W-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673549  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-735-U-T4W-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T4W distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

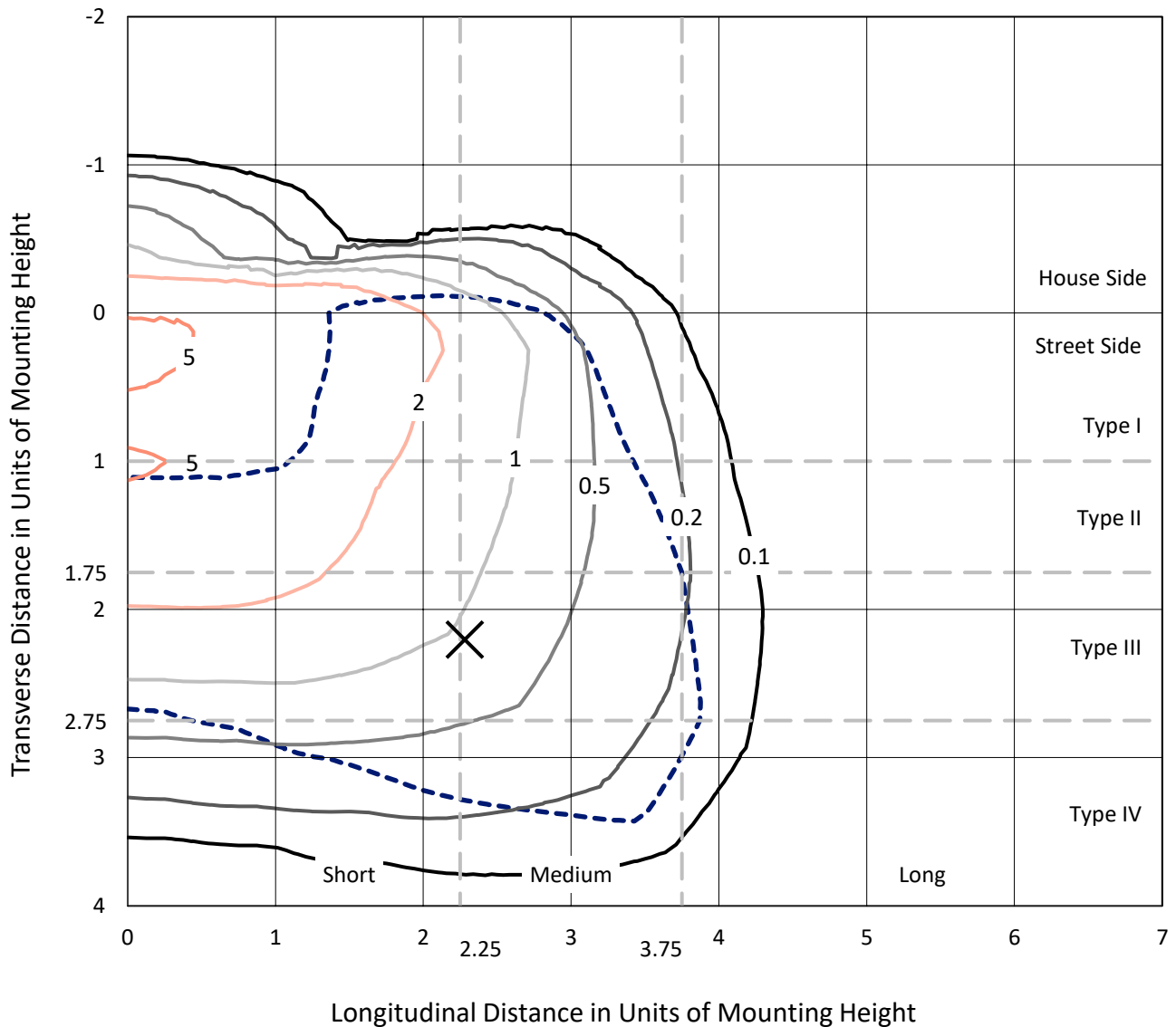
Lumens per Lamp: N/A  
Luminaire Lumens: 9729.7 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

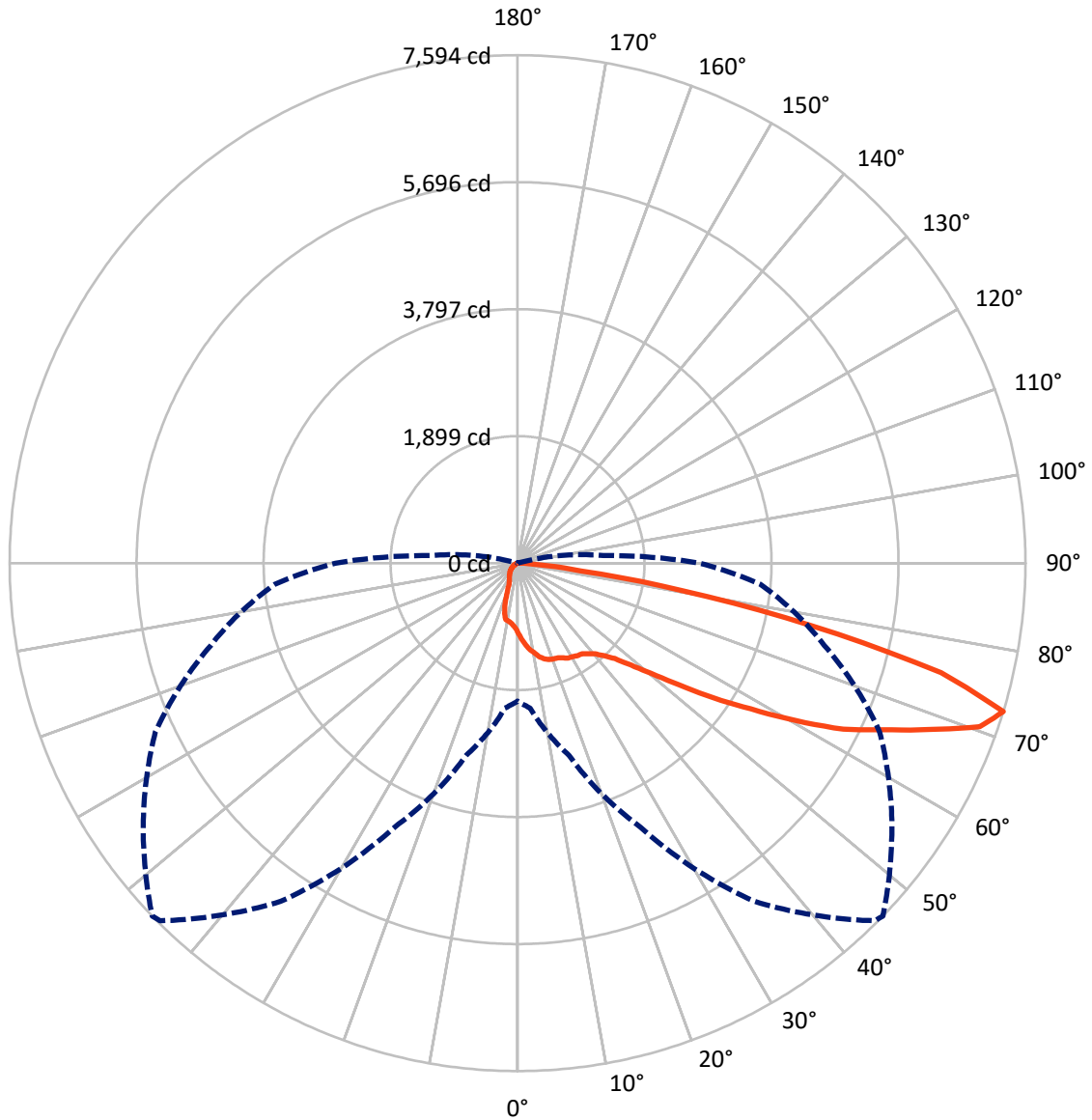
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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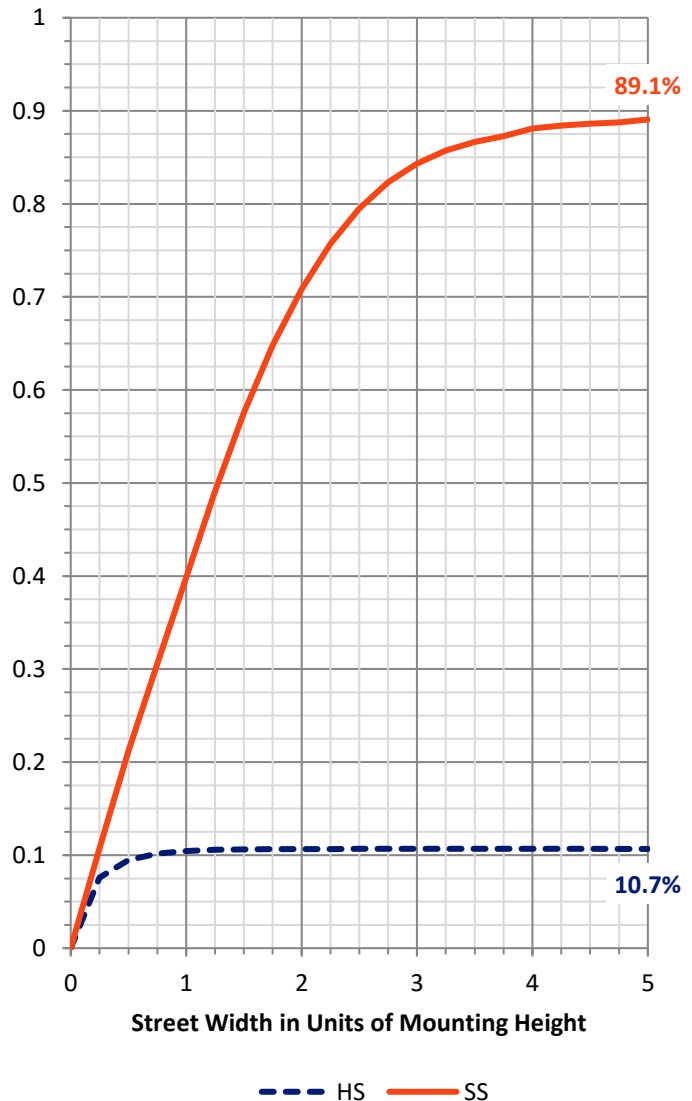
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1047.5	0.0	1047.5
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	8682.2	0.0	8682.2
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	9729.7	0.0	9729.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	1.1
10°-20°	314.2	3.2
20°-30°	491.9	5.1
30°-40°	688.9	7.1
40°-50°	1136.0	11.7
50°-60°	2041.8	21.0
60°-70°	2959.4	30.4
70°-80°	1846.9	19.0
80°-90°	146.4	1.5
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°	9729.7	100.0
0°-180°	9729.7	100.0



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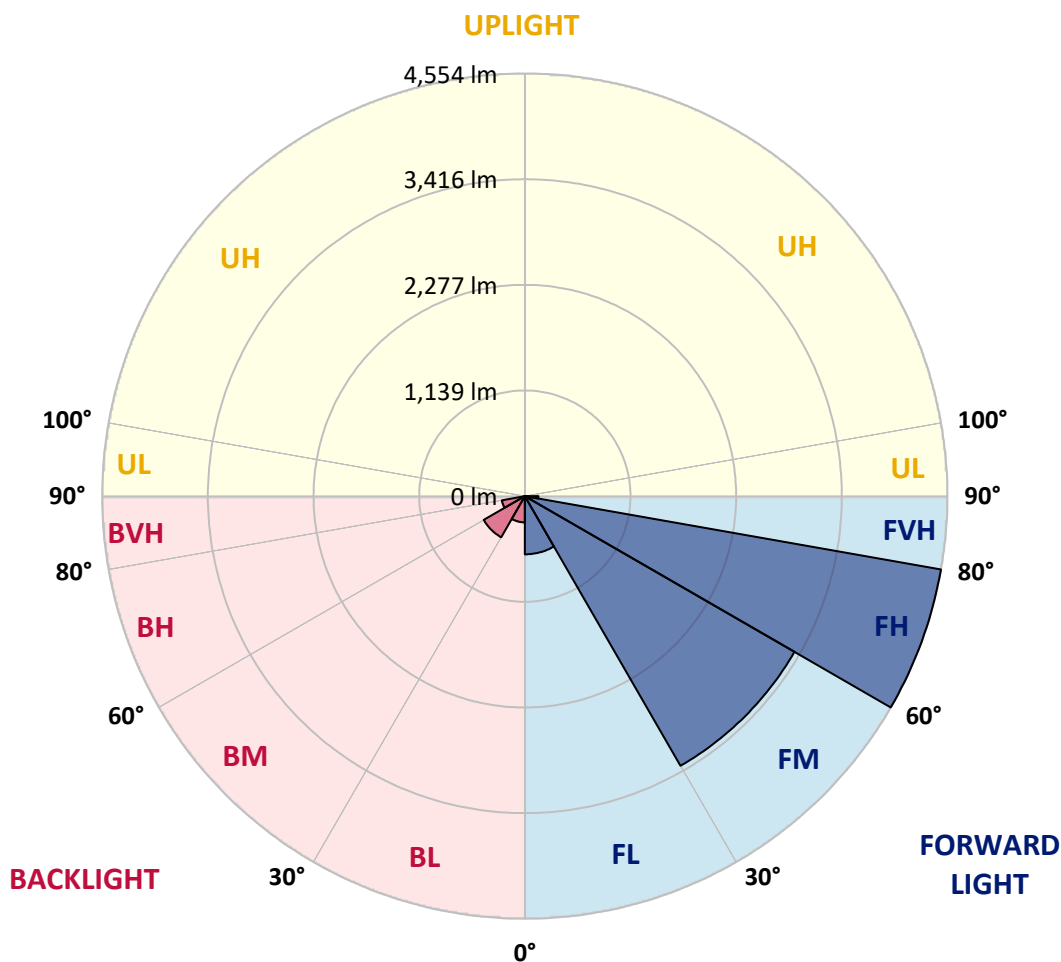
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.1	6.4			
FM (30°-60°)	3355.0	34.5			
FH (60°-80°)	4554.4	46.8			G2/5000
FVH (80°-90°)	145.6	1.5			G2/225
BL (0°-30°)	283.1	2.9	B1/500		
BM (30°-60°)	511.7	5.3	B1/1000		
BH (60°-80°)	251.9	2.6	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9
2.5°	1164.0	1159.0	1166.4	1164.0	1134.2	1139.1	1136.7	1116.8	1082.1	1062.2	1049.8
5°	1298.0	1310.4	1300.5	1278.1	1260.7	1226.0	1221.0	1188.8	1134.2	1099.4	1062.2
7.5°	1437.0	1437.0	1417.1	1382.4	1345.1	1307.9	1302.9	1248.3	1201.2	1141.6	1089.5
10°	1541.2	1528.8	1513.9	1476.7	1434.5	1384.8	1360.0	1320.3	1268.2	1196.2	1129.2
12.5°	1633.0	1613.2	1588.3	1533.7	1484.1	1429.5	1434.5	1369.9	1335.2	1270.7	1171.4
15°	1685.1	1667.8	1645.4	1595.8	1518.9	1494.0	1484.1	1444.4	1382.4	1317.8	1223.5
17.5°	1697.5	1685.1	1655.3	1590.8	1548.6	1518.9	1516.4	1469.2	1441.9	1387.3	1283.1
20°	1672.7	1650.4	1628.1	1585.9	1546.2	1536.2	1528.8	1528.8	1494.0	1422.1	1320.3
22.5°	1630.5	1605.7	1593.3	1568.5	1536.2	1533.7	1538.7	1533.7	1506.4	1459.3	1360.0
25°	1598.3	1585.9	1566.0	1558.6	1538.7	1575.9	1568.5	1561.0	1553.6	1499.0	1422.1
27.5°	1608.2	1605.7	1590.8	1561.0	1546.2	1585.9	1608.2	1610.7	1608.2	1553.6	1479.1
30°	1613.2	1600.8	1585.9	1578.4	1583.4	1623.1	1623.1	1677.7	1655.3	1600.8	1536.2
32.5°	1670.2	1662.8	1613.2	1595.8	1598.3	1645.4	1647.9	1702.5	1695.1	1657.8	1585.9
35°	1791.8	1742.2	1670.2	1620.6	1620.6	1682.6	1662.8	1742.2	1762.1	1702.5	1620.6
37.5°	1973.0	1935.8	1806.7	1695.1	1652.9	1697.5	1717.4	1762.1	1821.6	1769.5	1690.1
40°	2332.9	2325.4	2141.8	1901.0	1734.8	1774.5	1781.9	1851.4	1891.1	1819.1	1796.8
42.5°	2859.0	2821.8	2650.5	2270.8	1883.7	1866.3	1893.6	1938.3	2032.6	1973.0	1918.4
45°	3372.7	3355.4	3184.1	2759.7	2154.2	2050.0	2035.1	2114.5	2253.5	2188.9	2146.7
47.5°	3745.0	3710.3	3613.5	3256.1	2551.3	2265.9	2275.8	2355.2	2531.4	2481.8	2494.2
50°	4030.4	4013.0	3911.3	3715.2	3052.6	2605.9	2586.0	2665.4	2903.7	2936.0	2970.7
52.5°	4343.1	4375.4	4238.9	4072.6	3645.7	3062.5	3017.8	3045.1	3352.9	3427.3	3524.1
55°	4643.4	4695.5	4559.0	4536.7	4266.2	3568.8	3561.4	3496.8	3893.9	3903.8	3956.0
57.5°	4839.5	4822.1	4812.2	4933.8	4886.6	4149.5	4112.3	4047.8	4407.6	4343.1	4499.5
60°	4854.4	4904.0	5070.3	5370.6	5455.0	4832.0	4777.4	4601.2	4851.9	4698.0	4995.8
62.5°	4966.0	5005.8	5313.5	5728.0	5837.2	5432.6	5469.9	5023.1	5231.6	5110.0	5546.8
65°	4683.1	4807.2	5425.2	6005.9	6338.5	6040.7	6003.4	5566.6	5621.2	5507.1	6090.3
67.5°	4427.5	4474.7	5119.9	6090.3	6735.6	6651.2	6636.3	6048.1	6023.3	5812.3	6244.2
70°	3598.6	3655.7	4293.5	5658.5	6869.6	7363.5	7328.7	6723.2	6296.3	5646.1	5455.0
72.5°	2062.4	2176.5	2975.7	4358.0	6172.2	7562.0	7594.3	6832.4	5973.7	4747.7	3643.3
75°	675.0	707.3	1235.9	2469.4	4616.1	6596.6	6539.5	5871.9	4819.6	3134.5	1645.4
77.5°	228.3	233.3	364.8	893.4	2558.7	4457.3	4489.5	4196.7	2960.8	1302.9	454.2
80°	116.6	124.1	178.7	335.0	1052.3	2427.2	2479.3	2392.4	1240.9	384.7	109.2
82.5°	54.6	57.1	104.2	186.1	481.5	953.0	953.0	1047.3	439.3	215.9	44.7
85°	19.9	19.9	54.6	106.7	203.5	317.7	320.2	322.6	230.8	161.3	19.9
87.5°	7.4	7.4	27.3	44.7	74.5	96.8	96.8	76.9	116.6	106.7	7.4
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°	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9	1039.9
2.5°	1044.8	1029.9	1017.5	1000.2	977.8	965.4	967.9	953.0	953.0	945.6	943.1
5°	1044.8	1029.9	997.7	967.9	948.0	923.2	910.8	900.9	900.9	895.9	898.4
7.5°	1052.3	1029.9	985.3	945.6	913.3	888.5	868.6	866.1	861.2	848.8	858.7
10°	1096.9	1064.7	990.2	935.6	898.4	871.1	836.4	826.4	811.5	789.2	791.7
12.5°	1134.2	1092.0	1025.0	950.5	903.4	858.7	779.3	692.4	655.2	615.5	618.0
15°	1188.8	1129.2	1037.4	970.4	903.4	759.4	615.5	503.8	444.2	414.5	414.5
17.5°	1218.6	1168.9	1072.1	982.8	831.4	618.0	436.8	340.0	330.1	335.0	335.0
20°	1280.6	1213.6	1111.8	992.7	712.3	439.3	320.2	310.2	315.2	325.1	322.6
22.5°	1320.3	1253.3	1141.6	948.0	551.0	315.2	300.3	295.3	300.3	312.7	312.7
25°	1352.6	1310.4	1188.8	838.8	389.6	285.4	280.4	285.4	290.4	295.3	302.8
27.5°	1432.0	1360.0	1221.0	697.4	280.4	265.6	270.5	273.0	273.0	280.4	282.9
30°	1484.1	1427.0	1245.9	538.5	248.2	245.7	250.7	253.1	255.6	263.1	265.6
32.5°	1533.7	1513.9	1213.6	364.8	233.3	228.3	225.8	228.3	238.3	245.7	243.2
35°	1605.7	1593.3	1166.4	253.1	218.4	208.5	203.5	206.0	213.4	220.9	218.4
37.5°	1692.6	1705.0	1052.3	220.9	203.5	191.1	181.2	181.2	183.7	191.1	193.6
40°	1794.3	1826.6	918.3	206.0	193.6	178.7	168.8	156.4	153.9	151.4	153.9
42.5°	1980.5	2017.7	766.9	196.1	178.7	161.3	146.4	131.5	119.1	111.7	111.7
45°	2241.1	2211.3	568.3	186.1	171.2	146.4	124.1	106.7	89.3	81.9	81.9
47.5°	2600.9	2499.2	389.6	176.2	158.8	129.1	104.2	81.9	67.0	59.6	59.6
50°	3099.7	2764.7	253.1	166.3	151.4	111.7	84.4	59.6	49.6	47.2	49.6
52.5°	3571.3	3035.2	201.0	153.9	136.5	96.8	64.5	49.6	44.7	42.2	42.2
55°	4005.6	3171.7	178.7	141.5	124.1	79.4	54.6	42.2	39.7	37.2	37.2
57.5°	4372.9	3218.9	153.9	124.1	99.3	62.0	44.7	37.2	32.3	29.8	29.8
60°	4690.6	3231.3	119.1	99.3	72.0	47.2	37.2	32.3	27.3	22.3	22.3
62.5°	4943.7	3144.4	84.4	69.5	49.6	37.2	32.3	22.3	14.9	9.9	7.4
65°	5144.7	2970.7	57.1	47.2	32.3	27.3	19.9	9.9	2.5	0.0	0.0
67.5°	4909.0	2576.1	44.7	34.7	22.3	17.4	9.9	2.5	0.0	0.0	0.0
70°	4003.1	1997.8	32.3	22.3	14.9	5.0	2.5	0.0	0.0	0.0	0.0
72.5°	2725.0	1288.0	24.8	14.9	7.4	2.5	0.0	0.0	0.0	0.0	0.0
75°	1223.5	461.6	17.4	9.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	297.8	109.2	12.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.4	27.3	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	9.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.5	0.0	0.0	0.0	0.0	0.0	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)