

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: P674642

Luminaire Tested: **CCP-SA-2B-850-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674642
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-850-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

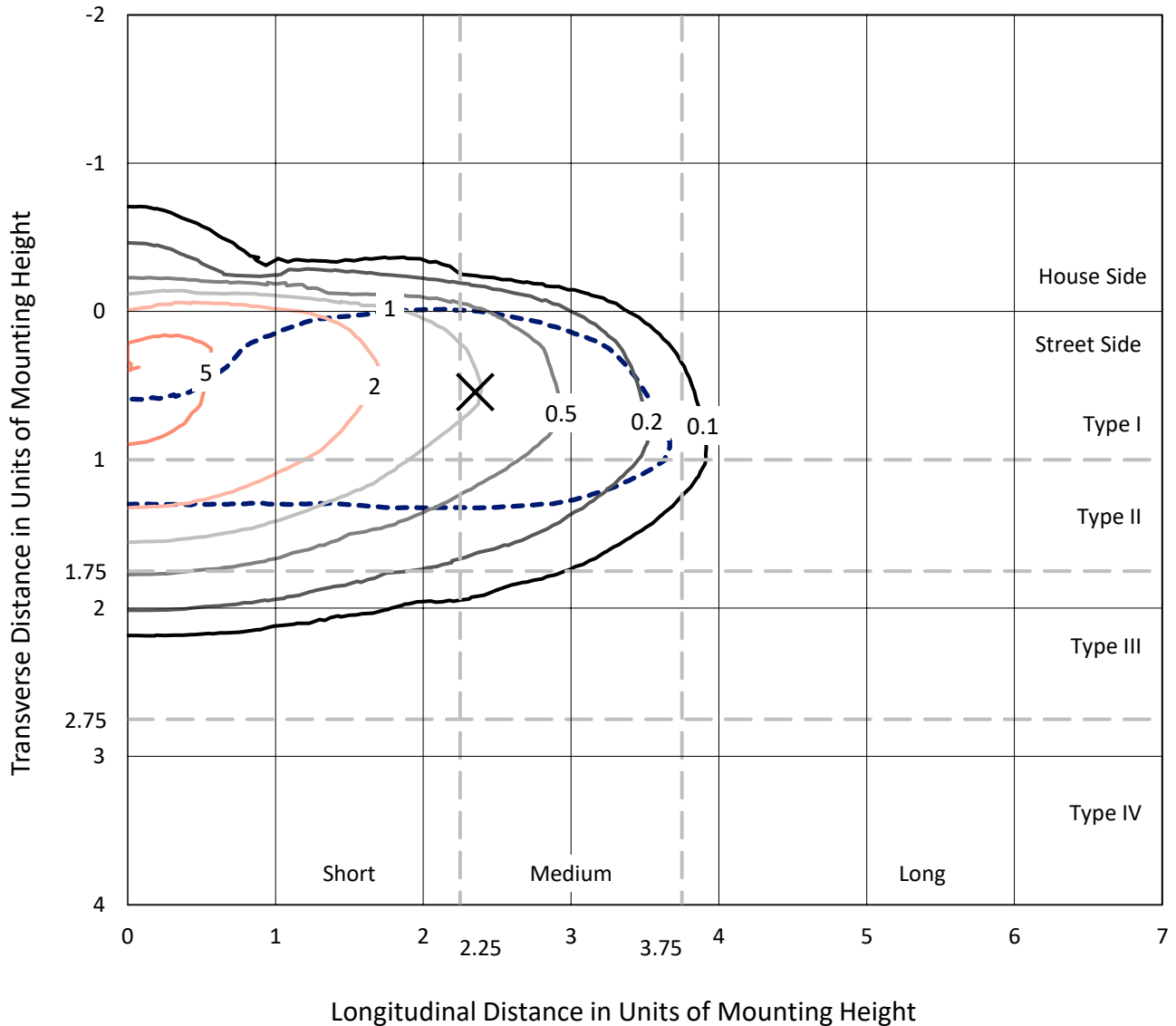
Lumens per Lamp: N/A
Luminaire Lumens: 4879.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 46
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

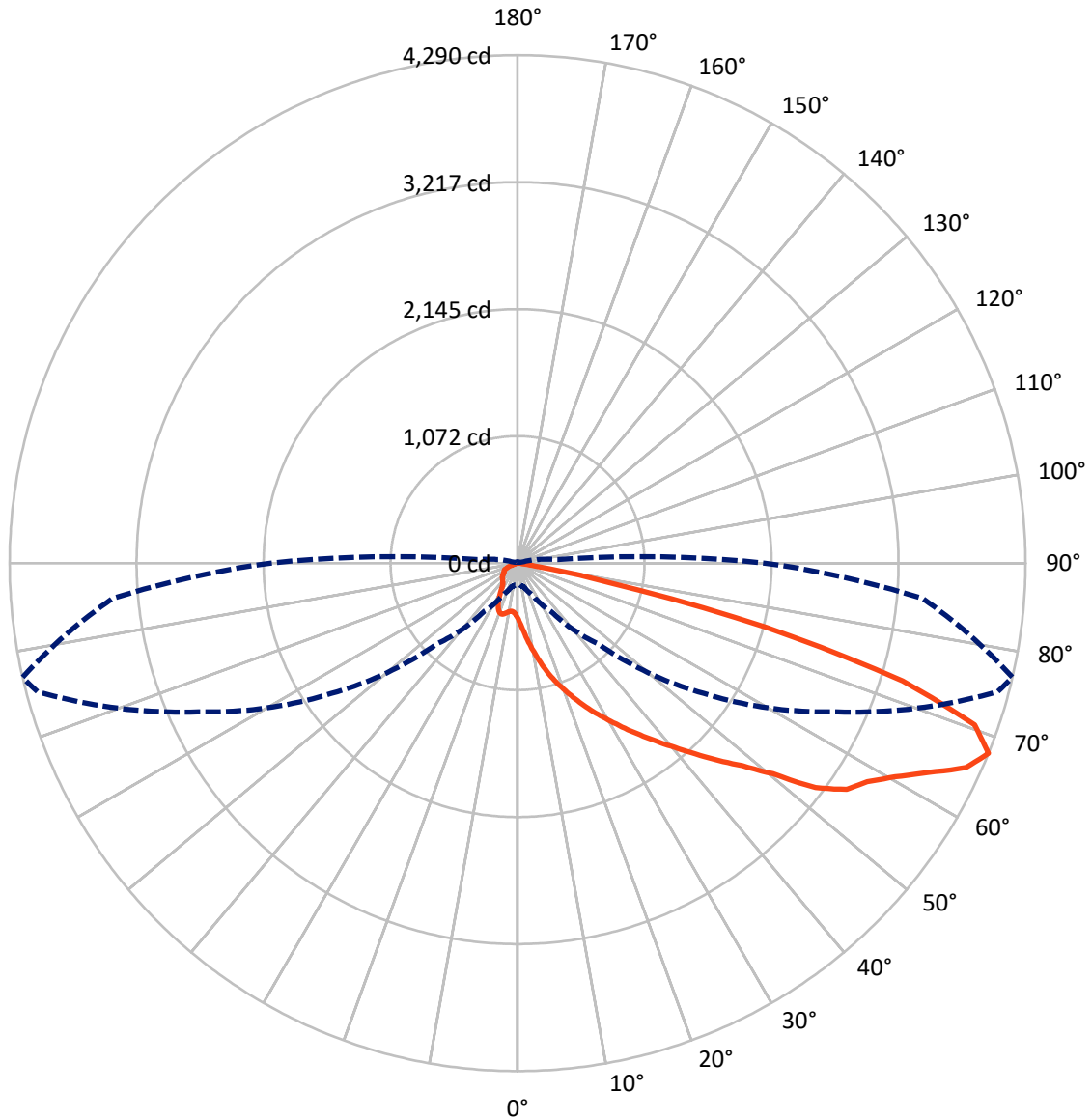
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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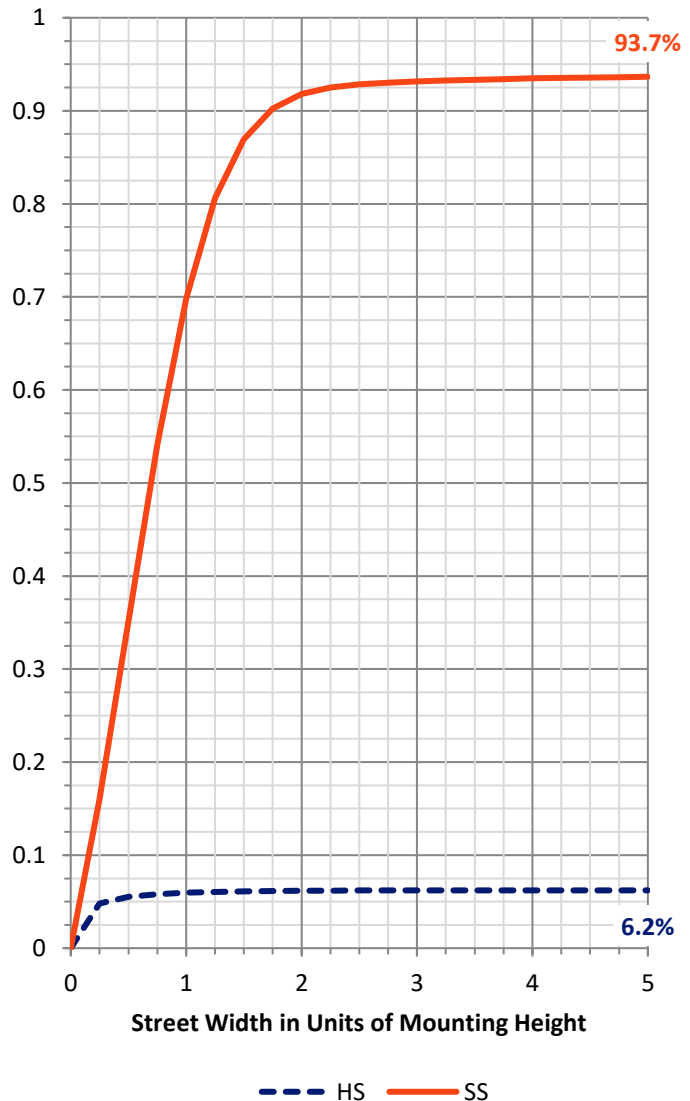
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.9	0.0	304.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	4574.6	0.0	4574.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	4879.5	0.0	4879.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.1
10°-20°	203.1	4.2
20°-30°	396.8	8.1
30°-40°	693.8	14.2
40°-50°	1011.9	20.7
50°-60°	1183.2	24.2
60°-70°	959.1	19.7
70°-80°	360.3	7.4
80°-90°	16.4	0.3
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°	4879.5	100.0
0°-180°	4879.5	100.0



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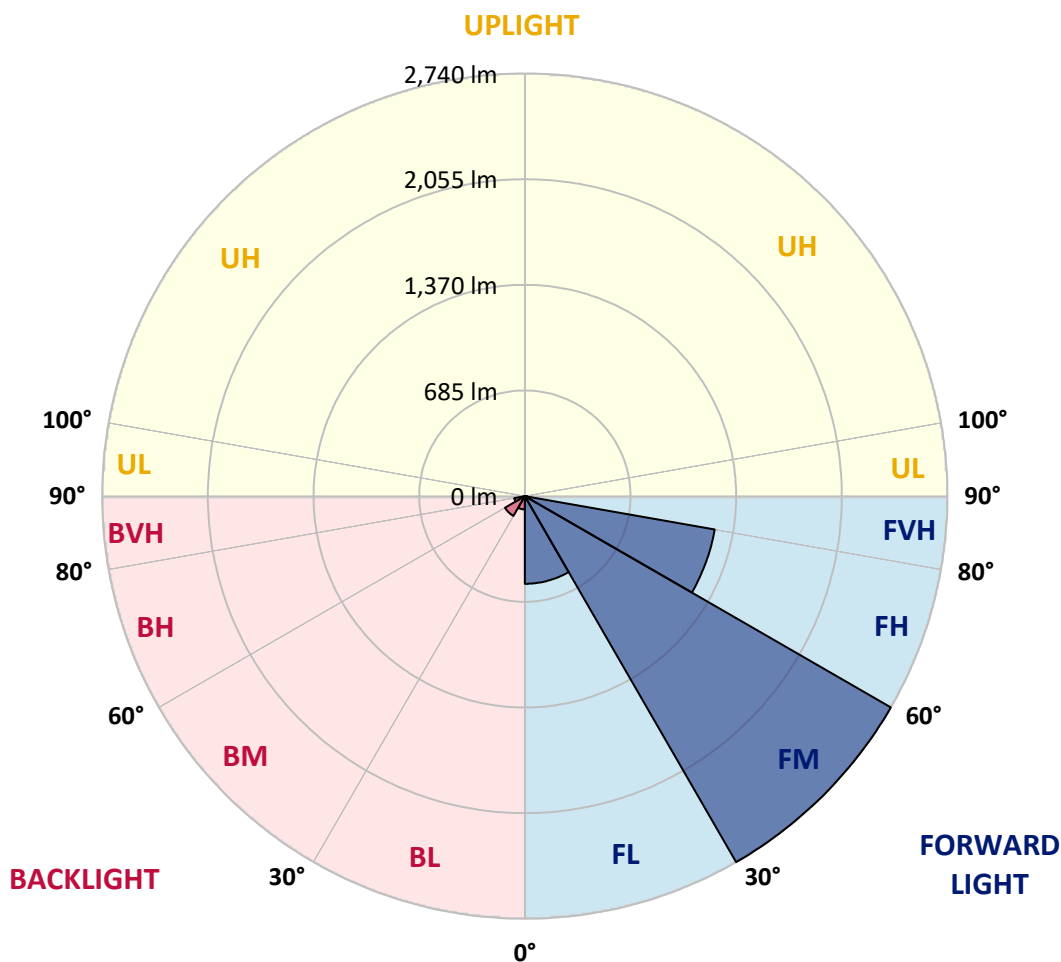
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.4	11.6			
FM (30°-60°)	2740.5	56.2			
FH (60°-80°)	1250.3	25.6			G1/1800
FVH (80°-90°)	15.4	0.3			G1/100
BL (0°-30°)	86.5	1.8	B0/110		
BM (30°-60°)	148.4	3.0	B0/220		
BH (60°-80°)	69.1	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4
2.5°	701.7	676.2	681.0	670.4	656.8	625.1	591.6	558.1	528.2	521.6	491.6
5°	898.6	890.7	882.3	875.3	846.6	807.0	746.6	670.0	600.8	588.9	526.8
7.5°	1051.5	1039.6	1047.1	1025.5	995.5	957.2	880.6	798.6	692.0	674.4	577.9
10°	1164.2	1157.6	1161.2	1151.0	1136.5	1098.2	1022.4	919.8	796.4	762.9	635.2
12.5°	1248.8	1250.1	1265.6	1266.4	1254.5	1223.3	1143.1	1036.1	891.1	861.2	698.6
15°	1310.5	1311.8	1330.7	1351.0	1364.7	1348.4	1275.7	1155.9	1002.6	961.6	765.1
17.5°	1320.6	1321.5	1355.0	1395.9	1438.2	1452.3	1396.4	1274.8	1104.3	1057.6	841.4
20°	1327.2	1334.7	1364.7	1411.8	1478.8	1522.4	1492.0	1388.9	1203.0	1148.8	916.2
22.5°	1407.4	1407.4	1425.0	1458.5	1511.8	1580.1	1573.9	1493.7	1299.0	1245.3	990.7
25°	1577.4	1577.4	1560.2	1551.4	1580.1	1633.8	1649.2	1605.6	1408.7	1345.3	1069.1
27.5°	1802.5	1802.5	1775.7	1710.9	1686.2	1708.7	1725.0	1703.0	1510.0	1447.5	1151.9
30°	2036.0	2043.9	1997.2	1914.8	1828.5	1811.3	1795.5	1790.6	1618.0	1547.5	1236.0
32.5°	2270.3	2269.5	2211.3	2108.7	1995.9	1935.1	1883.6	1877.8	1732.5	1663.3	1315.8
35°	2457.5	2458.0	2396.8	2291.5	2161.1	2083.6	2000.7	1973.9	1858.0	1780.9	1410.9
37.5°	2619.6	2610.4	2544.3	2444.3	2322.8	2242.6	2139.5	2069.5	1988.0	1909.6	1506.1
40°	2712.6	2700.3	2635.9	2540.8	2448.7	2387.5	2296.8	2184.9	2130.7	2046.1	1614.4
42.5°	2726.2	2715.7	2672.9	2615.7	2540.4	2486.6	2462.4	2315.3	2280.5	2203.8	1743.9
45°	2687.9	2670.7	2656.6	2626.7	2605.6	2579.6	2612.6	2454.0	2452.3	2376.1	1872.1
47.5°	2592.8	2569.4	2573.0	2606.0	2629.8	2653.1	2756.2	2635.9	2625.4	2554.0	2040.4
50°	2430.2	2418.8	2457.5	2522.7	2617.0	2710.4	2899.4	2821.8	2863.7	2796.7	2272.5
52.5°	2099.9	2114.0	2229.8	2386.6	2549.6	2737.3	3033.7	3099.3	3206.4	3151.3	2506.0
55°	1703.4	1698.1	1852.7	2131.1	2391.5	2720.1	3092.3	3262.8	3431.0	3373.3	2635.9
57.5°	1372.2	1381.4	1485.8	1761.1	2123.2	2587.5	3106.0	3348.2	3521.3	3483.0	2756.2
60°	1029.9	1038.7	1133.8	1373.5	1766.4	2310.9	2993.2	3378.2	3690.9	3661.9	2948.3
62.5°	655.5	666.9	762.5	995.5	1350.1	1880.9	2739.9	3346.9	3868.0	3892.2	3210.4
65°	322.4	332.6	403.1	581.5	902.6	1406.5	2386.6	3227.5	4093.6	4162.7	3420.5
67.5°	178.4	183.2	207.5	296.0	503.5	964.7	1917.9	2972.5	4197.1	4289.6	3434.6
70°	138.8	140.1	149.3	172.7	245.4	566.0	1364.2	2547.8	3982.6	4094.4	3148.7
72.5°	116.7	118.5	122.9	130.8	153.3	294.7	857.2	1969.0	3350.9	3401.5	2436.0
75°	85.5	88.1	100.4	107.5	121.1	178.8	377.9	1183.2	2214.4	2164.6	1362.9
77.5°	71.8	74.0	77.1	87.2	100.0	122.0	132.6	496.0	901.3	783.6	357.7
80°	48.9	51.5	59.9	65.2	84.6	80.6	55.1	133.0	181.0	147.6	68.7
82.5°	34.8	37.0	41.4	53.3	61.2	42.7	30.0	40.5	43.6	41.4	22.5
85°	11.0	14.1	30.0	44.0	33.0	14.5	18.9	15.4	13.7	13.2	8.8
87.5°	2.2	2.2	15.0	17.6	13.2	7.5	6.6	4.8	6.2	6.2	4.8
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°	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4	467.4
2.5°	477.5	457.7	429.0	402.2	374.9	355.5	341.8	328.2	322.9	320.7	315.0
5°	498.6	460.8	403.9	358.1	324.6	303.5	290.7	279.7	272.7	270.5	267.4
7.5°	529.0	474.4	392.9	340.1	306.6	283.7	263.0	239.2	220.2	212.8	209.7
10°	562.1	495.1	394.7	336.5	292.1	241.8	195.6	157.3	140.5	134.4	129.9
12.5°	610.5	518.0	402.2	332.6	248.4	172.7	125.1	109.2	105.3	104.4	103.5
15°	659.0	550.2	414.5	306.1	185.5	117.6	104.0	98.2	96.0	93.8	93.8
17.5°	707.9	581.0	419.4	254.6	128.2	101.8	94.7	89.9	86.3	84.6	83.3
20°	762.9	613.6	405.3	191.6	102.6	92.9	85.0	79.3	76.2	74.4	73.1
22.5°	822.4	645.8	374.4	133.5	93.4	83.7	76.2	70.5	67.4	65.6	65.2
25°	878.4	673.5	325.1	100.4	84.1	74.9	67.8	63.0	60.8	59.0	58.6
27.5°	936.1	697.3	260.8	88.5	76.6	67.8	60.8	56.8	54.6	53.3	52.9
30°	992.4	713.6	194.3	81.1	70.0	61.2	55.1	52.0	49.8	48.5	48.0
32.5°	1050.6	722.9	131.3	74.4	63.4	55.5	50.2	47.1	45.8	44.5	44.5
35°	1106.5	721.5	94.7	68.3	58.1	50.2	45.4	43.2	42.7	41.4	41.4
37.5°	1167.8	712.3	80.6	62.6	52.4	45.4	41.4	40.1	39.6	38.8	38.3
40°	1237.4	691.6	73.6	58.1	47.6	41.4	37.9	37.0	36.6	35.7	35.7
42.5°	1313.6	664.7	69.6	53.3	43.6	37.4	34.8	33.5	33.0	32.2	32.2
45°	1402.1	639.2	67.0	48.5	40.1	34.4	31.7	30.4	30.0	29.1	29.1
47.5°	1522.8	624.6	62.6	44.0	36.1	31.3	28.6	27.8	26.9	26.0	26.0
50°	1688.9	607.4	56.8	39.6	33.0	28.2	26.4	25.1	24.7	23.8	23.8
52.5°	1825.4	570.9	51.1	35.2	29.5	26.0	24.2	23.3	22.5	22.0	22.0
55°	1873.4	528.2	45.4	31.7	26.9	24.2	22.5	21.6	21.1	20.7	20.7
57.5°	1950.1	514.5	40.1	28.2	24.2	22.5	20.7	20.3	19.8	19.4	18.9
60°	2080.9	522.4	35.2	25.1	22.0	20.3	18.9	18.5	17.6	16.7	16.7
62.5°	2207.8	512.7	30.0	22.0	18.9	18.1	16.7	15.9	14.1	12.8	11.9
65°	2238.6	448.0	26.0	18.5	15.9	15.0	13.7	11.9	9.3	7.5	7.5
67.5°	2089.3	340.5	22.5	15.9	13.2	12.3	9.7	7.9	5.7	4.4	4.4
70°	1724.1	215.8	18.5	12.3	11.0	8.4	6.2	5.7	4.0	3.5	3.1
72.5°	1244.0	118.1	15.4	10.1	7.9	5.3	4.4	3.5	2.6	1.8	1.8
75°	629.9	55.5	11.5	7.9	5.3	3.5	2.6	1.8	1.8	1.3	1.3
77.5°	178.4	25.5	7.5	5.3	3.5	2.2	1.8	1.3	1.3	0.9	0.9
80°	35.2	12.8	4.8	3.5	2.6	1.8	1.3	0.9	0.9	0.4	0.4
82.5°	12.8	6.6	3.5	2.6	2.2	1.8	0.9	0.4	0.4	0.0	0.0
85°	6.6	3.5	2.6	2.2	1.8	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	3.5	2.6	2.2	2.2	1.8	1.3	0.9	0.4	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)