

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: P674611

Luminaire Tested: **CCP-SA-2D-830-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674611
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-830-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

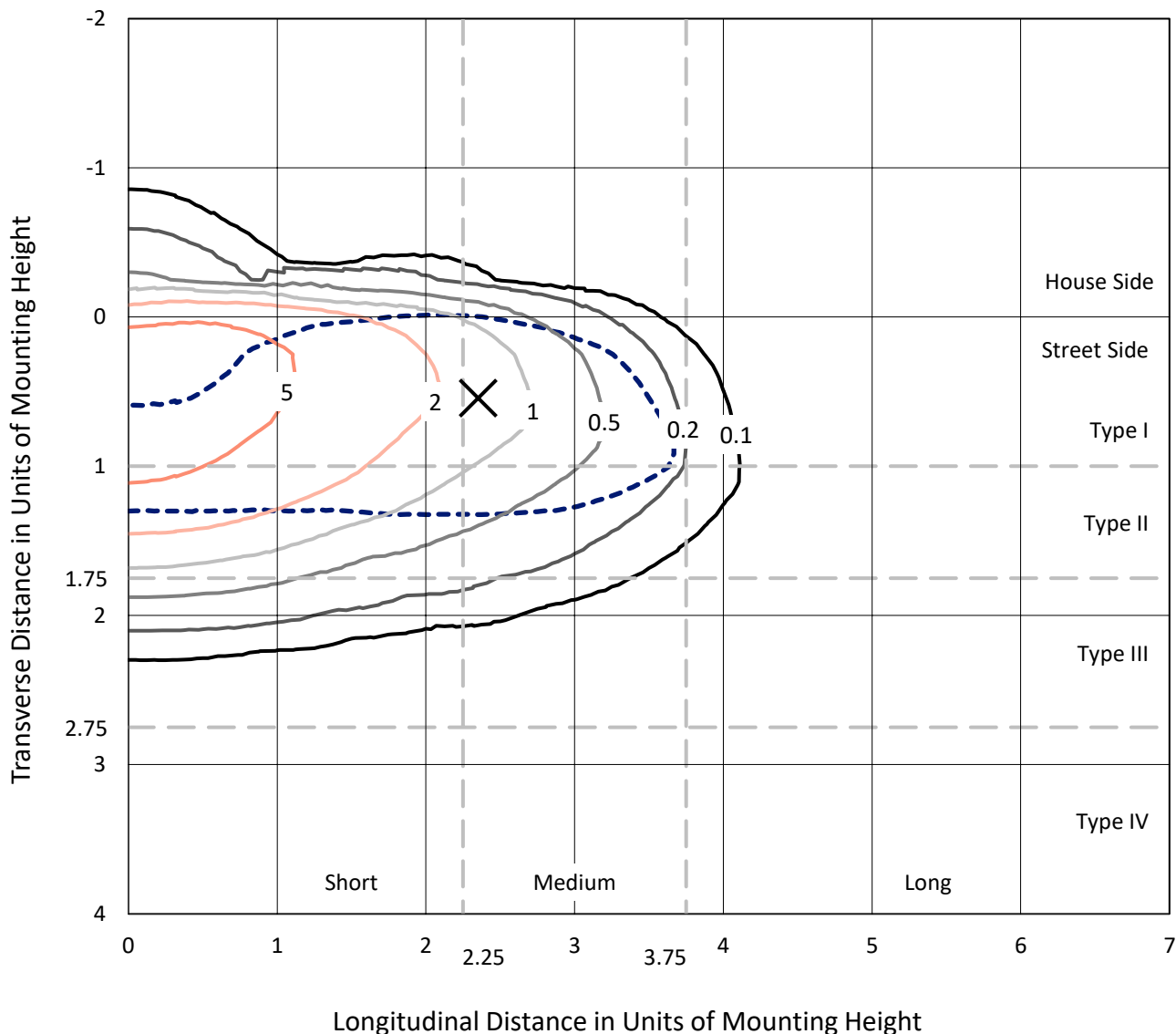
Lumens per Lamp: N/A
Luminaire Lumens: 7175.6 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

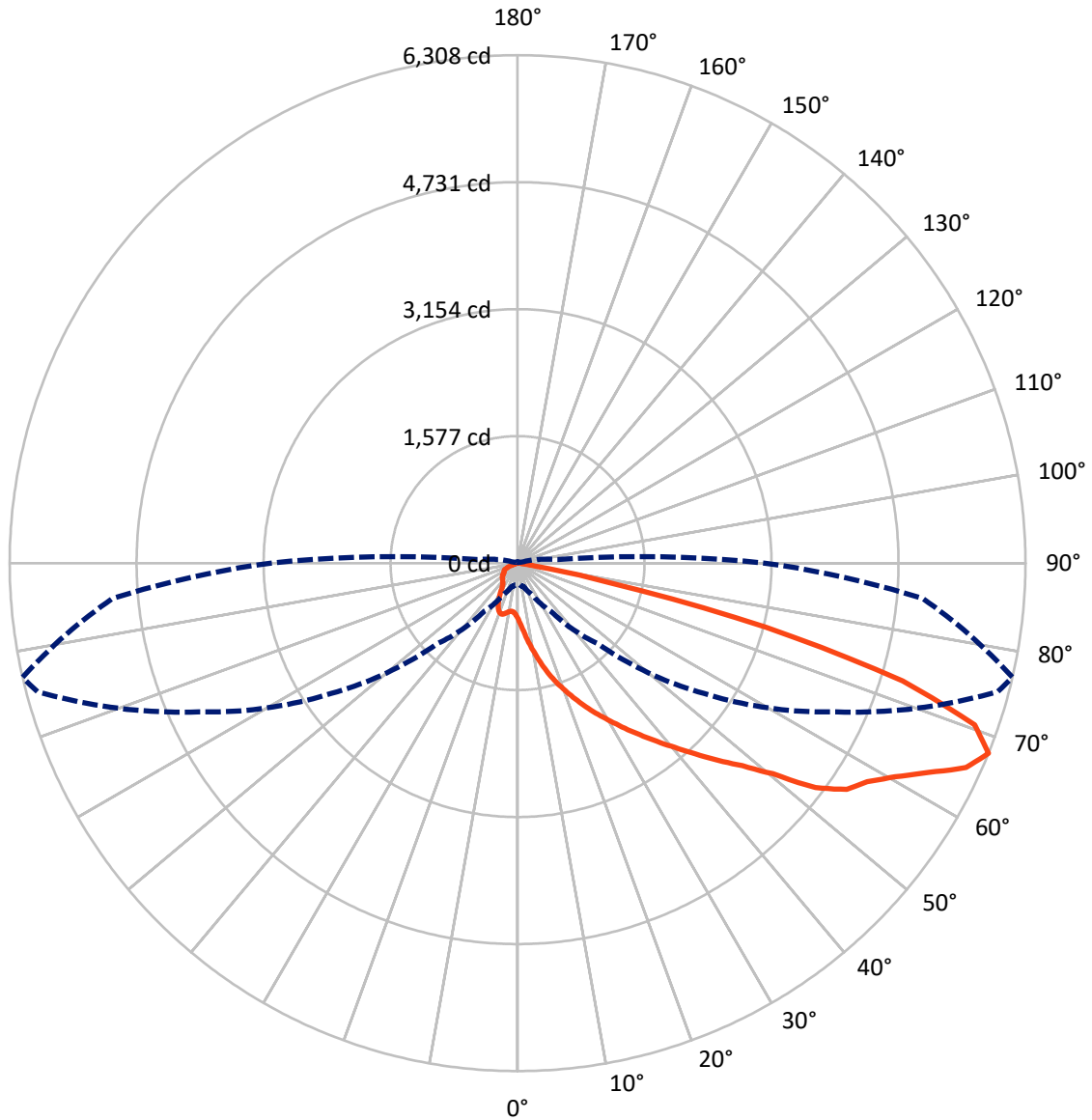
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.9 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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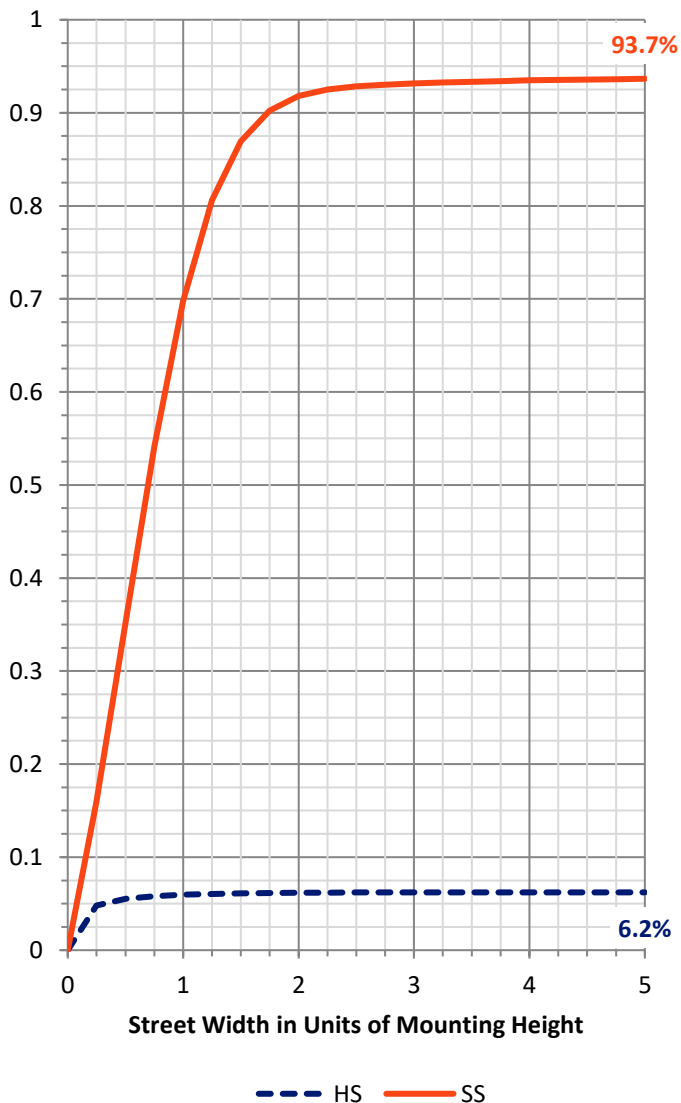
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	448.4	0.0	448.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6727.2	0.0	6727.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	7175.6	0.0	7175.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	1.1
10°-20°	298.7	4.2
20°-30°	583.6	8.1
30°-40°	1020.3	14.2
40°-50°	1488.0	20.7
50°-60°	1739.9	24.2
60°-70°	1410.4	19.7
70°-80°	529.9	7.4
80°-90°	24.1	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°	7175.6	100.0
0°-180°	7175.6	100.0

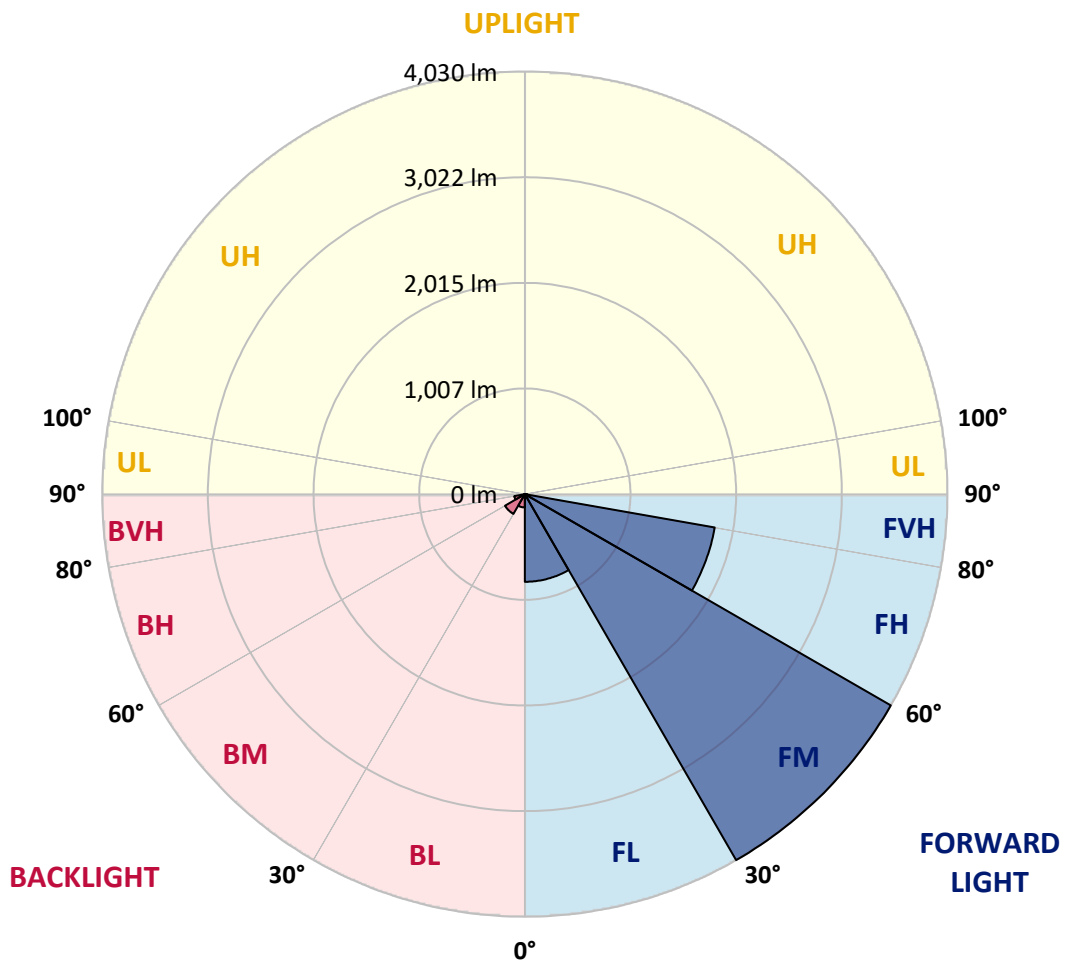


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.9	11.6			
FM (30°-60°)	4030.0	56.2			
FH (60°-80°)	1838.6	25.6			G2/5000
FVH (80°-90°)	22.7	0.3			G1/100
BL (0°-30°)	127.2	1.8	B1/500		
BM (30°-60°)	218.2	3.0	B0/220		
BH (60°-80°)	101.7	1.4	B0/110		G0/110
BVH (80°-90°)	1.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	1031.9	994.3	1001.5	985.9	965.8	919.2	870.0	820.7	776.7	767.0	722.9
5°	1321.5	1309.8	1297.5	1287.1	1245.0	1186.7	1098.0	985.3	883.6	866.1	774.7
7.5°	1546.2	1528.7	1539.8	1508.0	1464.0	1407.6	1294.9	1174.4	1017.6	991.7	849.9
10°	1712.1	1702.3	1707.5	1692.6	1671.3	1614.9	1503.5	1352.5	1171.2	1121.9	934.1
12.5°	1836.4	1838.4	1861.0	1862.3	1844.9	1798.9	1681.0	1523.6	1310.4	1266.4	1027.4
15°	1927.1	1929.1	1956.9	1986.7	2006.8	1982.8	1875.9	1699.8	1474.3	1414.1	1125.2
17.5°	1942.0	1943.3	1992.5	2052.8	2115.0	2135.7	2053.4	1874.7	1624.0	1555.3	1237.2
20°	1951.7	1962.7	2006.8	2076.1	2174.6	2238.7	2194.0	2042.4	1769.1	1689.4	1347.4
22.5°	2069.6	2069.6	2095.5	2144.8	2223.2	2323.6	2314.5	2196.6	1910.3	1831.3	1456.8
25°	2319.7	2319.7	2294.4	2281.5	2323.6	2402.6	2425.3	2361.1	2071.6	1978.3	1572.1
27.5°	2650.7	2650.7	2611.2	2515.9	2479.7	2512.7	2536.7	2504.3	2220.6	2128.6	1693.9
30°	2994.0	3005.7	2937.0	2815.9	2688.9	2663.6	2640.3	2633.2	2379.3	2275.6	1817.6
32.5°	3338.6	3337.3	3251.8	3100.9	2935.1	2845.7	2769.9	2761.5	2547.7	2446.0	1934.9
35°	3613.9	3614.6	3524.5	3369.7	3178.0	3064.0	2942.2	2902.7	2732.3	2618.9	2074.8
37.5°	3852.3	3838.7	3741.5	3594.5	3415.7	3297.8	3146.2	3043.2	2923.4	2808.1	2214.7
40°	3989.0	3970.8	3876.3	3736.3	3601.0	3510.9	3377.5	3212.9	3133.3	3008.9	2374.1
42.5°	4009.1	3993.5	3930.7	3846.5	3735.7	3656.7	3621.0	3404.7	3353.5	3240.8	2564.5
45°	3952.7	3927.4	3906.7	3862.7	3831.6	3793.4	3841.9	3608.7	3606.1	3494.1	2753.0
47.5°	3812.8	3778.5	3783.6	3832.2	3867.2	3901.5	4053.1	3876.3	3860.7	3755.8	3000.5
50°	3573.8	3556.9	3613.9	3709.8	3848.4	3985.7	4263.6	4149.6	4211.2	4112.7	3341.9
52.5°	3087.9	3108.7	3279.0	3509.6	3749.3	4025.3	4461.2	4557.7	4715.1	4634.2	3685.2
55°	2504.9	2497.2	2724.5	3133.9	3516.8	4000.0	4547.4	4798.0	5045.5	4960.6	3876.3
57.5°	2017.8	2031.4	2184.9	2589.8	3122.3	3805.0	4567.4	4923.7	5178.3	5121.9	4053.1
60°	1514.5	1527.4	1667.4	2019.8	2597.6	3398.2	4401.6	4967.8	5427.7	5384.9	4335.5
62.5°	963.9	980.7	1121.3	1464.0	1985.4	2766.0	4029.1	4921.8	5688.1	5723.7	4721.0
65°	474.2	489.1	592.7	855.1	1327.3	2068.3	3509.6	4746.2	6019.7	6121.4	5029.9
67.5°	262.3	269.5	305.1	435.3	740.4	1418.6	2820.4	4371.2	6172.0	6308.0	5050.7
70°	204.0	206.0	219.6	253.9	360.8	832.4	2006.1	3746.7	5856.5	6021.0	4630.3
72.5°	171.7	174.3	180.7	192.4	225.4	433.4	1260.6	2895.5	4927.6	5002.1	3582.2
75°	125.7	129.6	147.7	158.1	178.1	263.0	555.8	1739.9	3256.3	3183.2	2004.2
77.5°	105.6	108.8	113.4	128.3	147.0	179.4	195.0	729.4	1325.3	1152.4	526.0
80°	71.9	75.8	88.1	95.9	124.4	118.5	81.0	195.6	266.2	217.0	101.1
82.5°	51.2	54.4	60.9	78.4	90.0	62.8	44.0	59.6	64.1	60.9	33.0
85°	16.2	20.7	44.0	64.8	48.6	21.4	27.9	22.7	20.1	19.4	13.0
87.5°	3.2	3.2	22.0	25.9	19.4	11.0	9.7	7.1	9.1	9.1	7.1
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°	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3	687.3
2.5°	702.2	673.0	630.9	591.4	551.3	522.8	502.7	482.6	474.8	471.6	463.2
5°	733.3	677.6	594.0	526.6	477.4	446.3	427.5	411.3	401.0	397.7	393.2
7.5°	778.0	697.7	577.8	500.1	450.8	417.2	386.7	351.7	323.9	312.9	308.3
10°	826.6	728.1	580.4	494.9	429.5	355.6	287.6	231.3	206.6	197.6	191.1
12.5°	897.8	761.8	591.4	489.1	365.3	253.9	184.0	160.6	154.8	153.5	152.2
15°	969.1	809.1	609.6	450.2	272.7	173.0	152.9	144.5	141.2	138.0	138.0
17.5°	1041.0	854.4	616.7	374.4	188.5	149.6	139.3	132.1	127.0	124.4	122.4
20°	1121.9	902.3	595.9	281.8	150.9	136.7	125.0	116.6	112.1	109.5	107.5
22.5°	1209.4	949.6	550.6	196.3	137.3	123.1	112.1	103.6	99.1	96.5	95.9
25°	1291.7	990.4	478.1	147.7	123.7	110.1	99.8	92.6	89.4	86.8	86.2
27.5°	1376.5	1025.4	383.5	130.2	112.7	99.8	89.4	83.6	80.3	78.4	77.7
30°	1459.4	1049.4	285.7	119.2	103.0	90.0	81.0	76.4	73.2	71.3	70.6
32.5°	1544.9	1063.0	193.0	109.5	93.3	81.6	73.8	69.3	67.4	65.4	65.4
35°	1627.2	1061.1	139.3	100.4	85.5	73.8	66.7	63.5	62.8	60.9	60.9
37.5°	1717.2	1047.4	118.5	92.0	77.1	66.7	60.9	58.9	58.3	57.0	56.4
40°	1819.6	1017.0	108.2	85.5	70.0	60.9	55.7	54.4	53.8	52.5	52.5
42.5°	1931.7	977.5	102.3	78.4	64.1	55.1	51.2	49.2	48.6	47.3	47.3
45°	2061.9	939.9	98.5	71.3	58.9	50.5	46.6	44.7	44.0	42.8	42.8
47.5°	2239.3	918.5	92.0	64.8	53.1	46.0	42.1	40.8	39.5	38.2	38.2
50°	2483.6	893.3	83.6	58.3	48.6	41.5	38.9	36.9	36.3	35.0	35.0
52.5°	2684.4	839.5	75.1	51.8	43.4	38.2	35.6	34.3	33.0	32.4	32.4
55°	2755.0	776.7	66.7	46.6	39.5	35.6	33.0	31.7	31.1	30.4	30.4
57.5°	2867.7	756.6	58.9	41.5	35.6	33.0	30.4	29.8	29.1	28.5	27.9
60°	3060.1	768.3	51.8	36.9	32.4	29.8	27.9	27.2	25.9	24.6	24.6
62.5°	3246.6	754.0	44.0	32.4	27.9	26.6	24.6	23.3	20.7	18.8	17.5
65°	3292.0	658.8	38.2	27.2	23.3	22.0	20.1	17.5	13.6	11.0	11.0
67.5°	3072.4	500.7	33.0	23.3	19.4	18.1	14.3	11.7	8.4	6.5	6.5
70°	2535.4	317.4	27.2	18.1	16.2	12.3	9.1	8.4	5.8	5.2	4.5
72.5°	1829.3	173.6	22.7	14.9	11.7	7.8	6.5	5.2	3.9	2.6	2.6
75°	926.3	81.6	16.8	11.7	7.8	5.2	3.9	2.6	2.6	1.9	1.9
77.5°	262.3	37.6	11.0	7.8	5.2	3.2	2.6	1.9	1.9	1.3	1.3
80°	51.8	18.8	7.1	5.2	3.9	2.6	1.9	1.3	1.3	0.6	0.6
82.5°	18.8	9.7	5.2	3.9	3.2	2.6	1.3	0.6	0.6	0.0	0.0
85°	9.7	5.2	3.9	3.2	2.6	1.9	1.3	0.6	0.0	0.0	0.0
87.5°	5.2	3.9	3.2	3.2	2.6	1.9	1.3	0.6	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)