

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: P674644

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674644
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-850-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

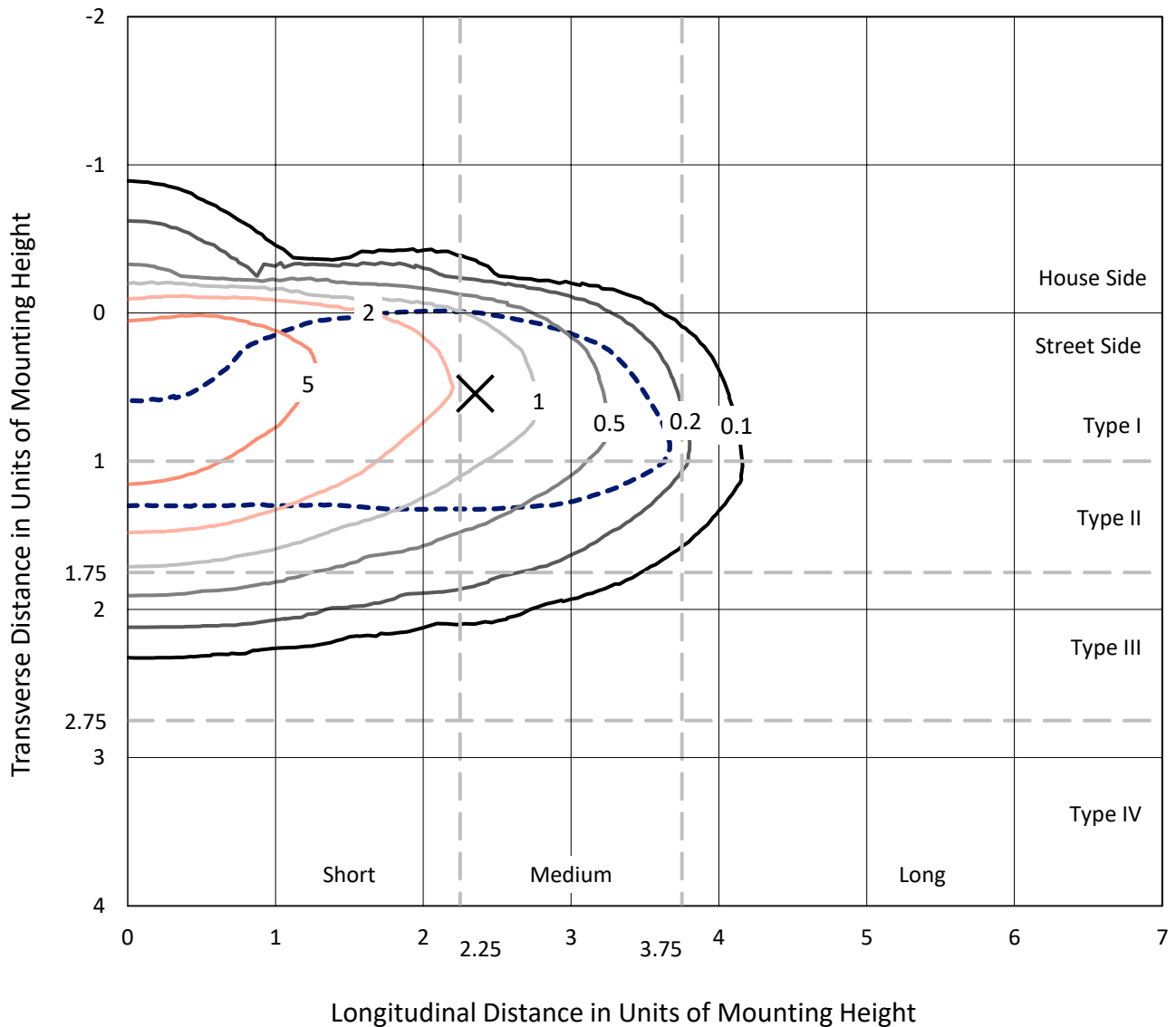
Lumens per Lamp: N/A
Luminaire Lumens: 7880 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

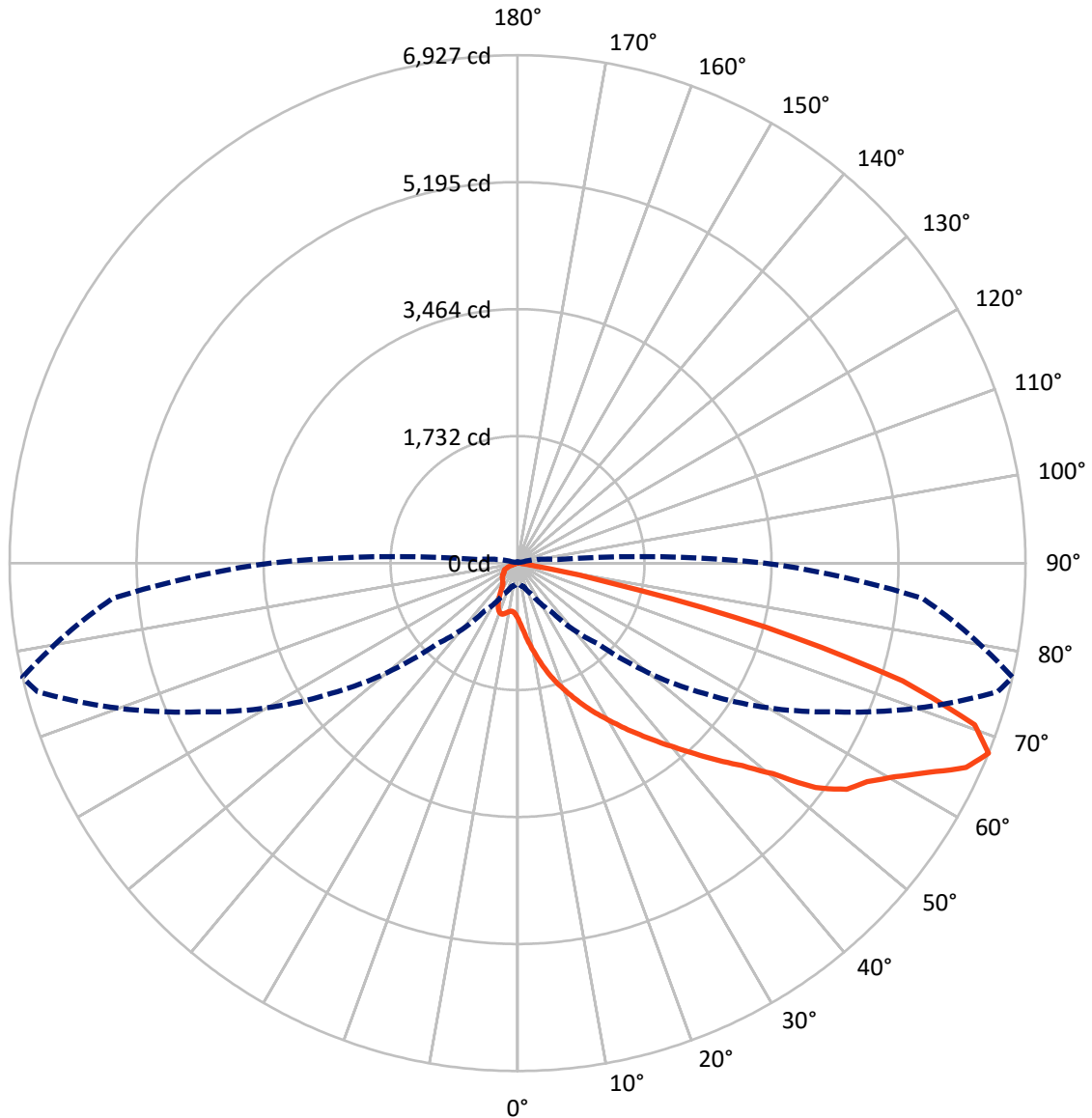
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.7 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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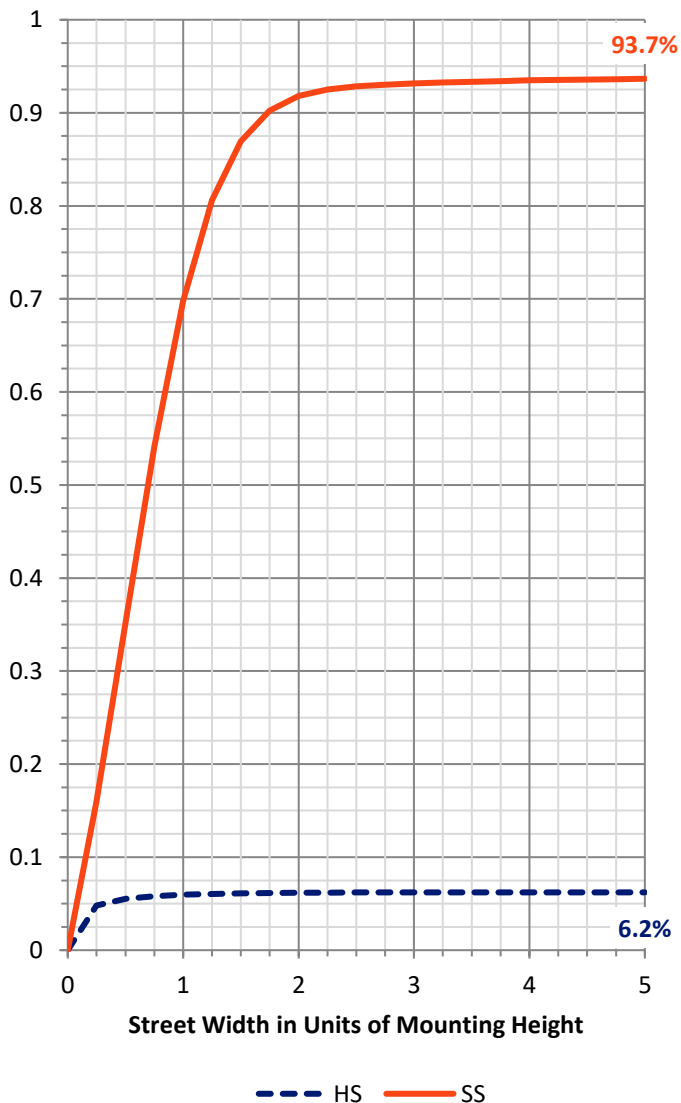
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	492.4	0.0	492.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	7387.5	0.0	7387.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	7880.0	0.0	7880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.1
10°-20°	328.0	4.2
20°-30°	640.9	8.1
30°-40°	1120.4	14.2
40°-50°	1634.0	20.7
50°-60°	1910.7	24.2
60°-70°	1548.9	19.7
70°-80°	581.9	7.4
80°-90°	26.5	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°	7880.0	100.0
0°-180°	7880.0	100.0



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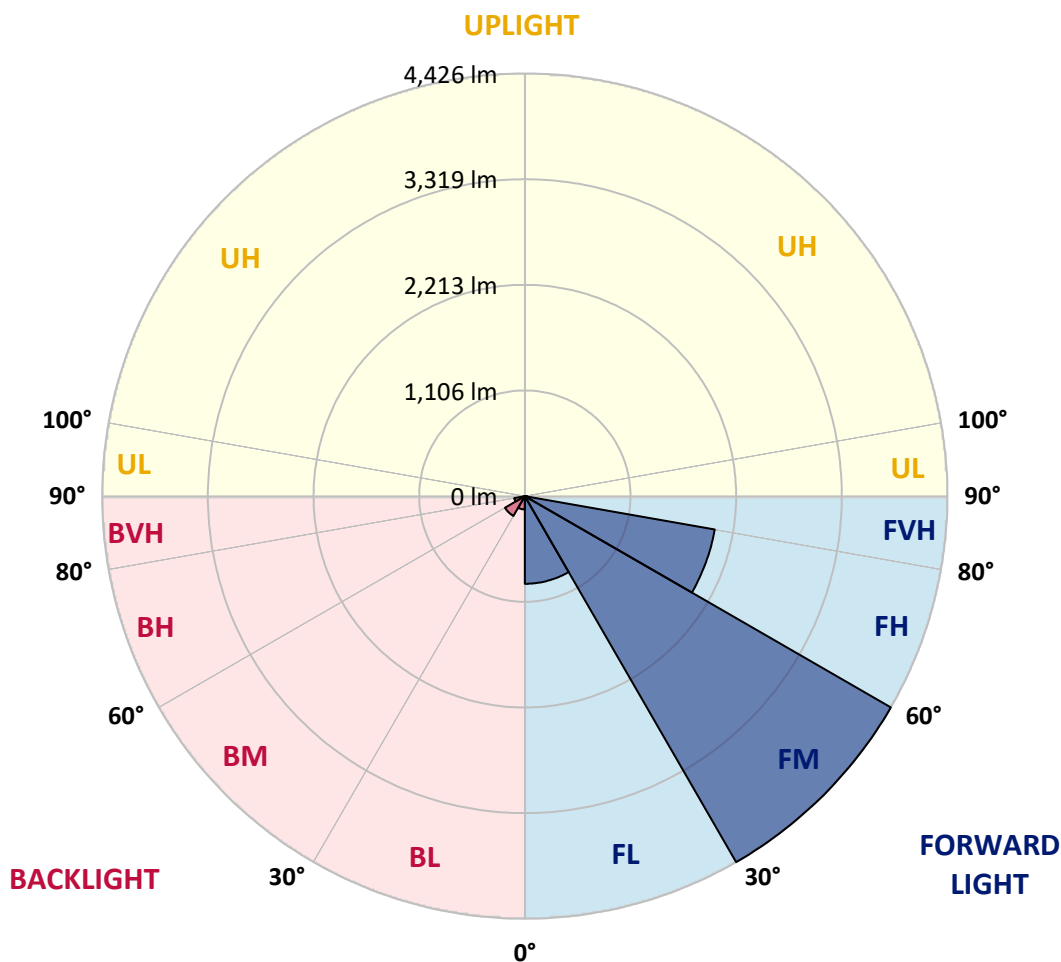
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.9	11.6			
FM (30°-60°)	4425.6	56.2			
FH (60°-80°)	2019.1	25.6			G2/5000
FVH (80°-90°)	24.9	0.3			G1/100
BL (0°-30°)	139.6	1.8	B1/500		
BM (30°-60°)	239.6	3.0	B1/1000		
BH (60°-80°)	111.7	1.4	B1/500		G1/500
BVH (80°-90°)	1.5	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°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	1133.2	1091.9	1099.8	1082.7	1060.6	1009.4	955.4	901.3	852.9	842.2	793.9
5°	1451.2	1438.4	1424.9	1413.5	1367.2	1303.2	1205.8	1082.0	970.3	951.1	850.8
7.5°	1698.0	1678.8	1690.9	1656.0	1607.7	1545.8	1422.0	1289.7	1117.5	1089.1	933.3
10°	1880.1	1869.5	1875.1	1858.8	1835.3	1773.4	1651.1	1485.3	1286.1	1232.1	1025.8
12.5°	2016.7	2018.8	2043.7	2045.2	2025.9	1975.4	1846.0	1673.1	1439.1	1390.7	1128.2
15°	2116.3	2118.4	2149.0	2181.7	2203.8	2177.5	2060.1	1866.6	1619.1	1552.9	1235.6
17.5°	2132.7	2134.1	2188.1	2254.3	2322.6	2345.3	2255.0	2058.7	1783.4	1708.0	1358.7
20°	2143.3	2155.4	2203.8	2279.9	2388.0	2458.5	2409.4	2242.9	1942.7	1855.2	1479.6
22.5°	2272.8	2272.8	2301.2	2355.3	2441.4	2551.6	2541.7	2412.2	2097.8	2011.0	1599.8
25°	2547.4	2547.4	2519.6	2505.4	2551.6	2638.4	2663.3	2592.9	2274.9	2172.5	1726.5
27.5°	2910.9	2910.9	2867.5	2762.9	2723.1	2759.4	2785.7	2750.1	2438.5	2337.5	1860.2
30°	3287.9	3300.7	3225.3	3092.3	2952.8	2925.1	2899.5	2891.7	2612.8	2499.0	1996.1
32.5°	3666.3	3664.9	3571.0	3405.3	3223.2	3125.0	3041.8	3032.5	2797.8	2686.1	2124.8
35°	3968.7	3969.4	3870.5	3700.5	3489.9	3364.7	3231.0	3187.6	3000.5	2876.0	2278.5
37.5°	4230.4	4215.5	4108.8	3947.3	3751.0	3621.5	3455.1	3342.0	3210.4	3083.7	2432.1
40°	4380.5	4360.6	4256.8	4103.1	3954.4	3855.6	3709.0	3528.3	3440.8	3304.3	2607.1
42.5°	4402.6	4385.5	4316.5	4224.0	4102.4	4015.6	3976.5	3738.9	3682.7	3558.9	2816.3
45°	4340.7	4313.0	4290.2	4241.8	4207.7	4165.7	4219.1	3963.0	3960.1	3837.1	3023.3
47.5°	4187.1	4149.4	4155.0	4208.4	4246.8	4284.5	4451.0	4256.8	4239.7	4124.5	3295.0
50°	3924.6	3906.1	3968.7	4074.0	4226.2	4377.0	4682.2	4557.0	4624.5	4516.4	3669.9
52.5°	3391.0	3413.8	3600.9	3854.1	4117.3	4420.4	4899.1	5005.1	5178.0	5089.1	4046.9
55°	2750.8	2742.3	2992.0	3441.6	3862.0	4392.6	4993.7	5269.0	5540.8	5447.6	4256.8
57.5°	2215.9	2230.8	2399.4	2844.0	3428.7	4178.5	5015.8	5407.0	5686.6	5624.7	4451.0
60°	1663.2	1677.4	1831.0	2218.0	2852.5	3731.8	4833.7	5455.4	5960.5	5913.5	4761.1
62.5°	1058.5	1077.0	1231.4	1607.7	2180.3	3037.5	4424.7	5404.9	6246.4	6285.6	5184.4
65°	520.7	537.1	650.9	939.0	1457.6	2271.4	3854.1	5212.1	6610.7	6722.3	5523.7
67.5°	288.1	295.9	335.0	478.0	813.1	1557.9	3097.3	4800.2	6777.8	6927.2	5546.5
70°	224.1	226.2	241.2	278.9	396.2	914.1	2203.1	4114.5	6431.4	6612.1	5084.8
72.5°	188.5	191.4	198.5	211.3	247.6	475.9	1384.3	3179.8	5411.3	5493.1	3933.8
75°	138.0	142.3	162.2	173.6	195.6	288.8	610.3	1910.7	3576.0	3495.6	2200.9
77.5°	116.0	119.5	124.5	140.8	161.5	197.0	214.1	801.0	1455.4	1265.5	577.6
80°	79.0	83.2	96.7	105.3	136.6	130.2	88.9	214.8	292.4	238.3	111.0
82.5°	56.2	59.8	66.9	86.1	98.9	69.0	48.4	65.4	70.4	66.9	36.3
85°	17.8	22.8	48.4	71.1	53.4	23.5	30.6	24.9	22.1	21.3	14.2
87.5°	3.6	3.6	24.2	28.5	21.3	12.1	10.7	7.8	10.0	10.0	7.8
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°	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8	754.8
2.5°	771.1	739.1	692.9	649.5	605.4	574.1	552.0	530.0	521.4	517.9	508.6
5°	805.3	744.1	652.3	578.3	524.3	490.1	469.5	451.7	440.3	436.8	431.8
7.5°	854.3	766.1	634.5	549.2	495.1	458.1	424.7	386.3	355.7	343.6	338.6
10°	907.7	799.6	637.4	543.5	471.6	390.5	315.8	254.0	226.9	217.0	209.9
12.5°	985.9	836.6	649.5	537.1	401.2	278.9	202.0	176.4	170.0	168.6	167.2
15°	1064.2	888.5	669.4	494.4	299.5	189.9	167.9	158.6	155.1	151.5	151.5
17.5°	1143.2	938.3	677.2	411.2	207.0	164.3	152.9	145.1	139.4	136.6	134.4
20°	1232.1	990.9	654.4	309.4	165.7	150.1	137.3	128.0	123.1	120.2	118.1
22.5°	1328.1	1042.9	604.7	215.5	150.8	135.2	123.1	113.8	108.8	106.0	105.3
25°	1418.4	1087.7	525.0	162.2	135.9	120.9	109.5	101.7	98.2	95.3	94.6
27.5°	1511.6	1126.1	421.1	143.0	123.8	109.5	98.2	91.8	88.2	86.1	85.4
30°	1602.7	1152.4	313.7	130.9	113.1	98.9	88.9	83.9	80.4	78.2	77.5
32.5°	1696.6	1167.3	212.0	120.2	102.4	89.6	81.1	76.1	74.0	71.8	71.8
35°	1786.9	1165.2	152.9	110.3	93.9	81.1	73.3	69.7	69.0	66.9	66.9
37.5°	1885.8	1150.3	130.2	101.0	84.7	73.3	66.9	64.7	64.0	62.6	61.9
40°	1998.2	1116.8	118.8	93.9	76.8	66.9	61.2	59.8	59.0	57.6	57.6
42.5°	2121.3	1073.4	112.4	86.1	70.4	60.5	56.2	54.1	53.4	51.9	51.9
45°	2264.3	1032.2	108.1	78.2	64.7	55.5	51.2	49.1	48.4	46.9	46.9
47.5°	2459.2	1008.7	101.0	71.1	58.3	50.5	46.2	44.8	43.4	42.0	42.0
50°	2727.3	981.0	91.8	64.0	53.4	45.5	42.7	40.5	39.8	38.4	38.4
52.5°	2947.9	921.9	82.5	56.9	47.7	42.0	39.1	37.7	36.3	35.6	35.6
55°	3025.4	852.9	73.3	51.2	43.4	39.1	36.3	34.9	34.1	33.4	33.4
57.5°	3149.2	830.9	64.7	45.5	39.1	36.3	33.4	32.7	32.0	31.3	30.6
60°	3360.5	843.7	56.9	40.5	35.6	32.7	30.6	29.9	28.5	27.0	27.0
62.5°	3565.3	828.0	48.4	35.6	30.6	29.2	27.0	25.6	22.8	20.6	19.2
65°	3615.1	723.5	42.0	29.9	25.6	24.2	22.1	19.2	14.9	12.1	12.1
67.5°	3374.0	549.9	36.3	25.6	21.3	19.9	15.6	12.8	9.2	7.1	7.1
70°	2784.3	348.6	29.9	19.9	17.8	13.5	10.0	9.2	6.4	5.7	5.0
72.5°	2008.9	190.6	24.9	16.4	12.8	8.5	7.1	5.7	4.3	2.8	2.8
75°	1017.2	89.6	18.5	12.8	8.5	5.7	4.3	2.8	2.8	2.1	2.1
77.5°	288.1	41.3	12.1	8.5	5.7	3.6	2.8	2.1	2.1	1.4	1.4
80°	56.9	20.6	7.8	5.7	4.3	2.8	2.1	1.4	1.4	0.7	0.7
82.5°	20.6	10.7	5.7	4.3	3.6	2.8	1.4	0.7	0.7	0.0	0.0
85°	10.7	5.7	4.3	3.6	2.8	2.1	1.4	0.7	0.0	0.0	0.0
87.5°	5.7	4.3	3.6	3.6	2.8	2.1	1.4	0.7	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)