

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: P674605

Luminaire Tested: **CCP-SA-1D-830-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1D-830-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ T2R distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.1 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

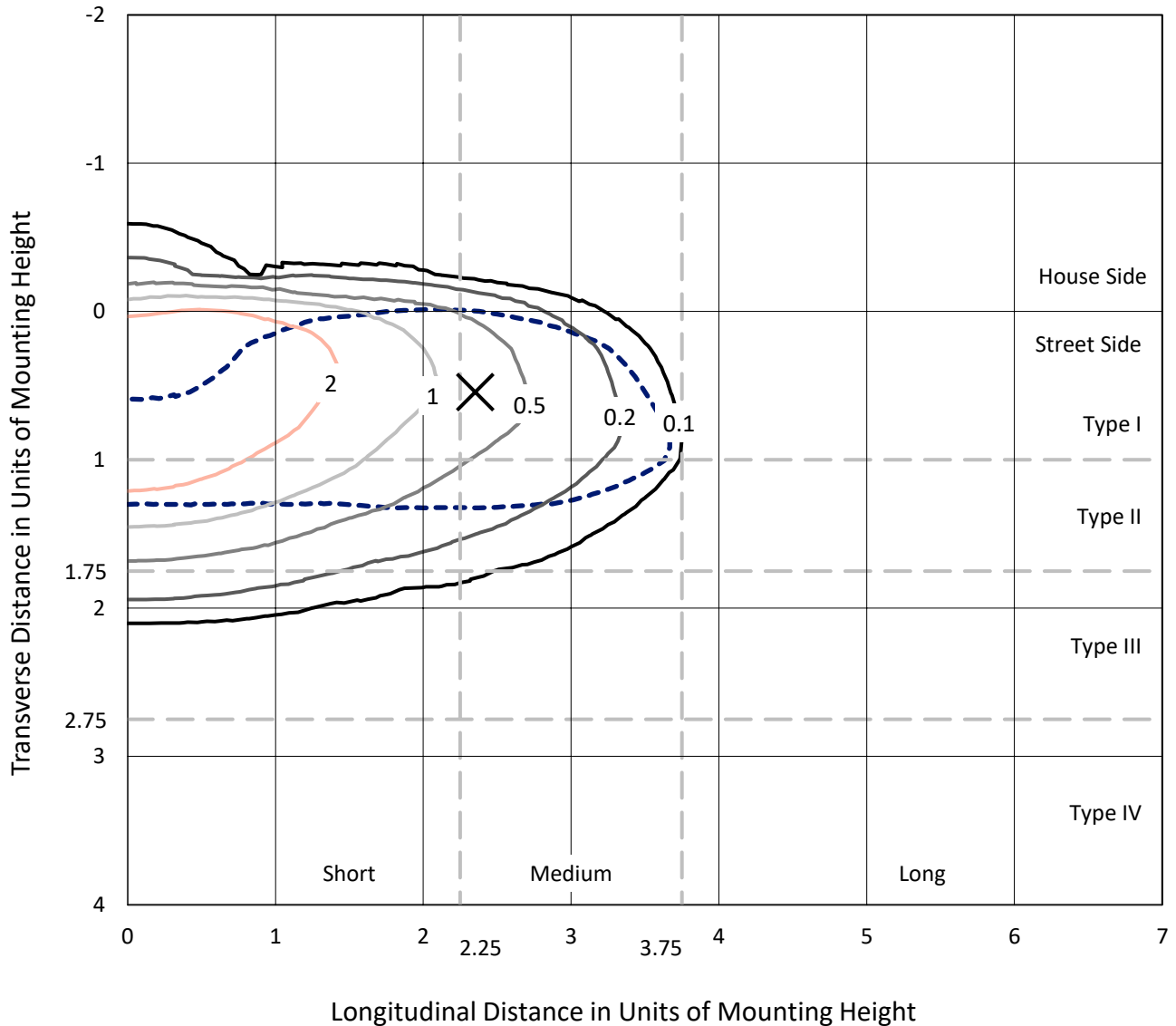
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

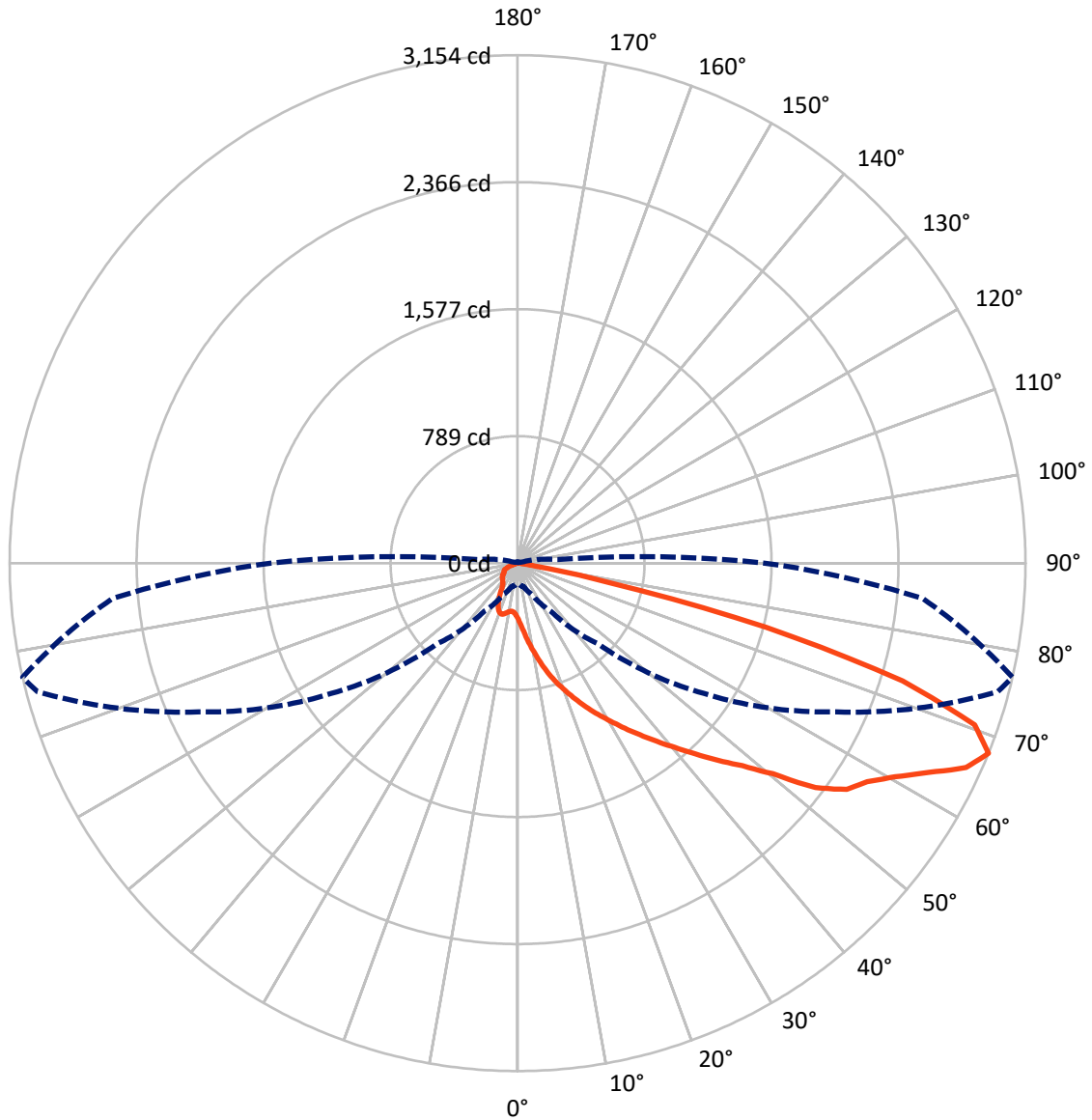
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 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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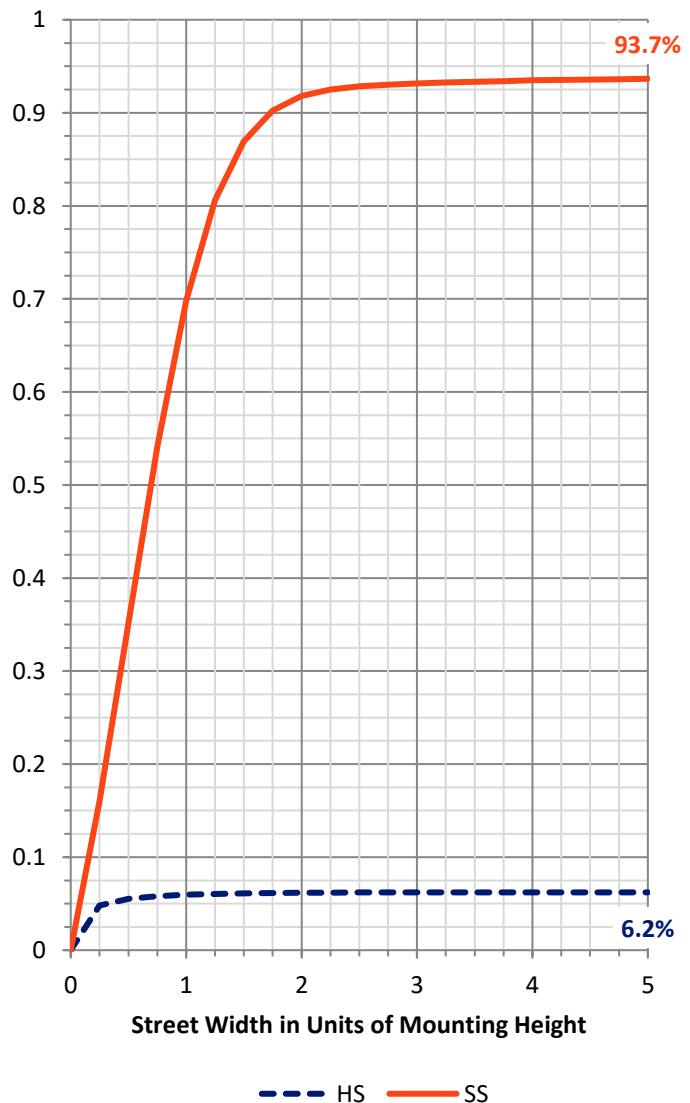
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	224.2	0.0	224.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3363.9	0.0	3363.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	3588.1	0.0	3588.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	1.1
10°-20°	149.4	4.2
20°-30°	291.8	8.1
30°-40°	510.2	14.2
40°-50°	744.0	20.7
50°-60°	870.0	24.2
60°-70°	705.3	19.7
70°-80°	265.0	7.4
80°-90°	12.0	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°	3588.1	100.0
0°-180°	3588.1	100.0



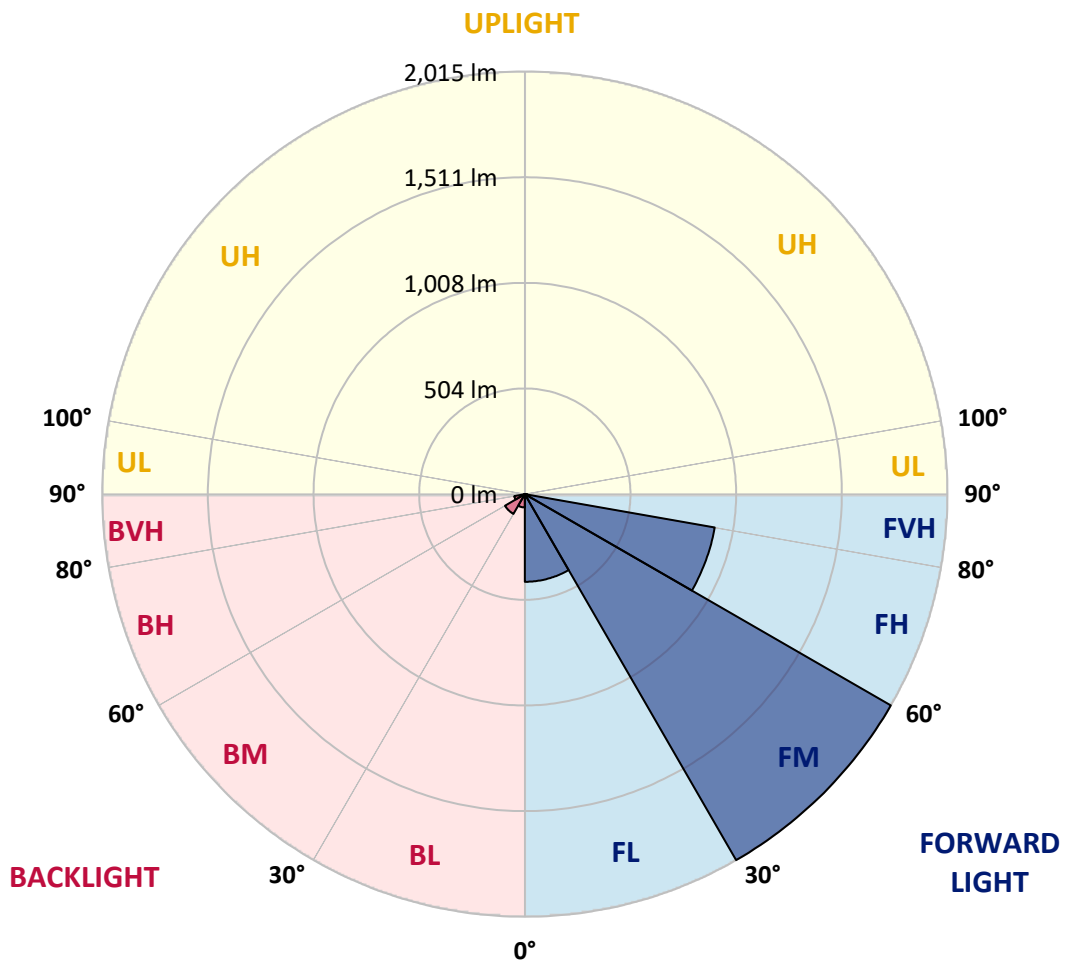
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	418.0	11.6			
FM (30°-60°)	2015.2	56.2			
FH (60°-80°)	919.4	25.6			G1/1800
FVH (80°-90°)	11.3	0.3			G1/100
BL (0°-30°)	63.6	1.8	B0/110		
BM (30°-60°)	109.1	3.0	B0/220		
BH (60°-80°)	50.8	1.4	B0/110		G0/110
BVH (80°-90°)	0.7	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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	516.0	497.2	500.8	493.0	483.0	459.6	435.0	410.4	388.4	383.5	361.5
5°	660.8	655.0	648.8	643.6	622.6	593.4	549.0	492.7	441.8	433.1	387.4
7.5°	773.2	764.4	769.9	754.1	732.0	703.9	647.5	587.3	508.9	495.9	425.0
10°	856.1	851.2	853.8	846.4	835.7	807.5	751.8	676.3	585.6	561.0	467.1
12.5°	918.3	919.3	930.6	931.3	922.5	899.5	840.6	761.8	655.3	633.3	513.7
15°	963.6	964.6	978.5	993.4	1003.5	991.5	938.1	850.0	737.2	707.1	562.6
17.5°	971.1	971.7	996.4	1026.5	1057.6	1067.9	1026.8	937.4	812.1	777.7	618.7
20°	976.0	981.5	1003.5	1038.1	1087.4	1119.5	1097.1	1021.3	884.6	844.8	673.7
22.5°	1034.9	1034.9	1047.9	1072.5	1111.7	1161.9	1157.3	1098.4	955.2	915.7	728.5
25°	1159.9	1159.9	1147.3	1140.8	1161.9	1201.4	1212.7	1180.7	1035.9	989.2	786.1
27.5°	1325.5	1325.5	1305.7	1258.1	1239.9	1256.5	1268.5	1252.3	1110.4	1064.4	847.0
30°	1497.1	1503.0	1468.6	1408.1	1344.6	1331.9	1320.3	1316.7	1189.7	1137.9	908.9
32.5°	1669.5	1668.8	1626.1	1550.6	1467.7	1423.0	1385.1	1380.8	1274.0	1223.1	967.5
35°	1807.1	1807.4	1762.4	1685.0	1589.1	1532.1	1471.2	1451.5	1366.3	1309.6	1037.5
37.5°	1926.3	1919.5	1870.9	1797.4	1708.0	1649.1	1573.3	1521.8	1461.8	1404.2	1107.5
40°	1994.7	1985.6	1938.3	1868.3	1800.6	1755.6	1688.9	1606.6	1566.8	1504.6	1187.1
42.5°	2004.7	1996.9	1965.5	1923.4	1868.0	1828.5	1810.7	1702.5	1676.9	1620.5	1282.4
45°	1976.5	1963.9	1953.5	1931.5	1916.0	1896.8	1921.1	1804.5	1803.2	1747.2	1376.6
47.5°	1906.6	1889.4	1892.0	1916.3	1933.8	1950.9	2026.7	1938.3	1930.5	1878.1	1500.4
50°	1787.0	1778.6	1807.1	1855.1	1924.4	1993.0	2132.0	2075.0	2105.8	2056.5	1671.1
52.5°	1544.1	1554.5	1639.7	1755.0	1874.8	2012.8	2230.8	2279.1	2357.8	2317.3	1842.8
55°	1252.6	1248.7	1362.4	1567.1	1758.5	2000.2	2273.9	2399.2	2523.0	2480.5	1938.3
57.5°	1009.0	1015.8	1092.6	1295.0	1561.3	1902.7	2283.9	2462.1	2589.4	2561.2	2026.7
60°	757.3	763.8	833.8	1010.0	1298.9	1699.3	2201.0	2484.1	2714.1	2692.7	2168.0
62.5°	482.0	490.4	560.7	732.0	992.8	1383.1	2014.8	2461.1	2844.3	2862.1	2360.7
65°	237.1	244.6	296.4	427.6	663.7	1034.3	1755.0	2373.3	3010.1	3061.0	2515.2
67.5°	131.2	134.7	152.6	217.7	370.2	709.4	1410.3	2185.8	3086.3	3154.3	2525.6
70°	102.0	103.0	109.8	127.0	180.4	416.2	1003.2	1873.5	2928.5	3010.8	2315.3
72.5°	85.8	87.1	90.4	96.2	112.7	216.7	630.3	1447.9	2464.0	2501.3	1791.2
75°	62.8	64.8	73.9	79.0	89.1	131.5	277.9	870.0	1628.3	1591.7	1002.2
77.5°	52.8	54.4	56.7	64.1	73.5	89.7	97.5	364.7	662.7	576.2	263.0
80°	36.0	37.9	44.1	47.9	62.2	59.3	40.5	97.8	133.1	108.5	50.5
82.5°	25.6	27.2	30.4	39.2	45.0	31.4	22.0	29.8	32.1	30.4	16.5
85°	8.1	10.4	22.0	32.4	24.3	10.7	13.9	11.3	10.0	9.7	6.5
87.5°	1.6	1.6	11.0	13.0	9.7	5.5	4.9	3.6	4.5	4.5	3.6
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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	351.1	336.5	315.5	295.7	275.7	261.4	251.4	241.3	237.4	235.8	231.6
5°	366.7	338.8	297.0	263.3	238.7	223.2	213.8	205.7	200.5	198.9	196.6
7.5°	389.0	348.9	288.9	250.1	225.4	208.6	193.4	175.9	162.0	156.5	154.2
10°	413.3	364.1	290.2	247.5	214.8	177.8	143.8	115.6	103.3	98.8	95.6
12.5°	448.9	380.9	295.7	244.6	182.7	127.0	92.0	80.3	77.4	76.8	76.1
15°	484.6	404.6	304.8	225.1	136.4	86.5	76.4	72.2	70.6	69.0	69.0
17.5°	520.5	427.2	308.4	187.2	94.3	74.8	69.6	66.1	63.5	62.2	61.2
20°	561.0	451.2	298.0	140.9	75.5	68.3	62.5	58.3	56.0	54.7	53.8
22.5°	604.7	474.9	275.3	98.1	68.7	61.5	56.0	51.8	49.6	48.3	47.9
25°	645.9	495.3	239.0	73.9	61.9	55.1	49.9	46.3	44.7	43.4	43.1
27.5°	688.3	512.8	191.8	65.1	56.4	49.9	44.7	41.8	40.2	39.2	38.9
30°	729.8	524.7	142.8	59.6	51.5	45.0	40.5	38.2	36.6	35.6	35.3
32.5°	772.5	531.5	96.5	54.7	46.6	40.8	36.9	34.7	33.7	32.7	32.7
35°	813.7	530.6	69.6	50.2	42.8	36.9	33.4	31.7	31.4	30.4	30.4
37.5°	858.7	523.8	59.3	46.0	38.5	33.4	30.4	29.5	29.2	28.5	28.2
40°	909.9	508.5	54.1	42.8	35.0	30.4	27.9	27.2	26.9	26.2	26.2
42.5°	965.9	488.8	51.2	39.2	32.1	27.5	25.6	24.6	24.3	23.6	23.6
45°	1031.0	470.0	49.2	35.6	29.5	25.3	23.3	22.4	22.0	21.4	21.4
47.5°	1119.8	459.3	46.0	32.4	26.6	23.0	21.1	20.4	19.8	19.1	19.1
50°	1241.9	446.7	41.8	29.2	24.3	20.7	19.4	18.5	18.1	17.5	17.5
52.5°	1342.3	419.8	37.6	25.9	21.7	19.1	17.8	17.2	16.5	16.2	16.2
55°	1377.6	388.4	33.4	23.3	19.8	17.8	16.5	15.9	15.5	15.2	15.2
57.5°	1434.0	378.3	29.5	20.7	17.8	16.5	15.2	14.9	14.6	14.3	13.9
60°	1530.2	384.2	25.9	18.5	16.2	14.9	13.9	13.6	13.0	12.3	12.3
62.5°	1623.5	377.0	22.0	16.2	13.9	13.3	12.3	11.7	10.4	9.4	8.7
65°	1646.1	329.4	19.1	13.6	11.7	11.0	10.0	8.7	6.8	5.5	5.5
67.5°	1536.3	250.4	16.5	11.7	9.7	9.1	7.1	5.8	4.2	3.2	3.2
70°	1267.8	158.7	13.6	9.1	8.1	6.2	4.5	4.2	2.9	2.6	2.3
72.5°	914.7	86.8	11.3	7.5	5.8	3.9	3.2	2.6	1.9	1.3	1.3
75°	463.2	40.8	8.4	5.8	3.9	2.6	1.9	1.3	1.3	1.0	1.0
77.5°	131.2	18.8	5.5	3.9	2.6	1.6	1.3	1.0	1.0	0.6	0.6
80°	25.9	9.4	3.6	2.6	1.9	1.3	1.0	0.6	0.6	0.3	0.3
82.5°	9.4	4.9	2.6	1.9	1.6	1.3	0.6	0.3	0.3	0.0	0.0
85°	4.9	2.6	1.9	1.6	1.3	1.0	0.6	0.3	0.0	0.0	0.0
87.5°	2.6	1.9	1.6	1.6	1.3	1.0	0.6	0.3	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)