

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: P672161

Luminaire Tested: **CCP-SA-2B-830-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672161
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

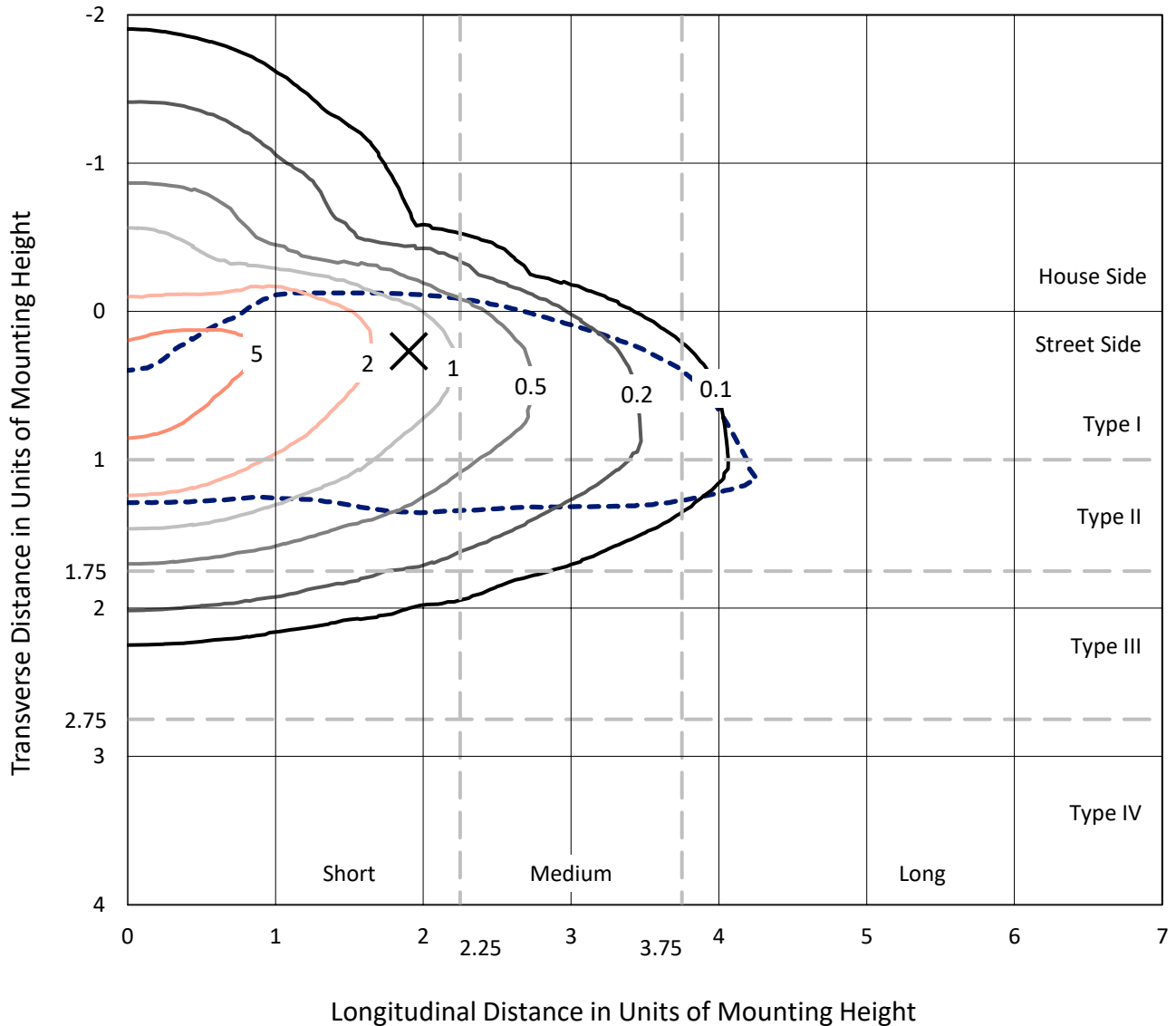
Lumens per Lamp: N/A
Luminaire Lumens: 5574.2 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

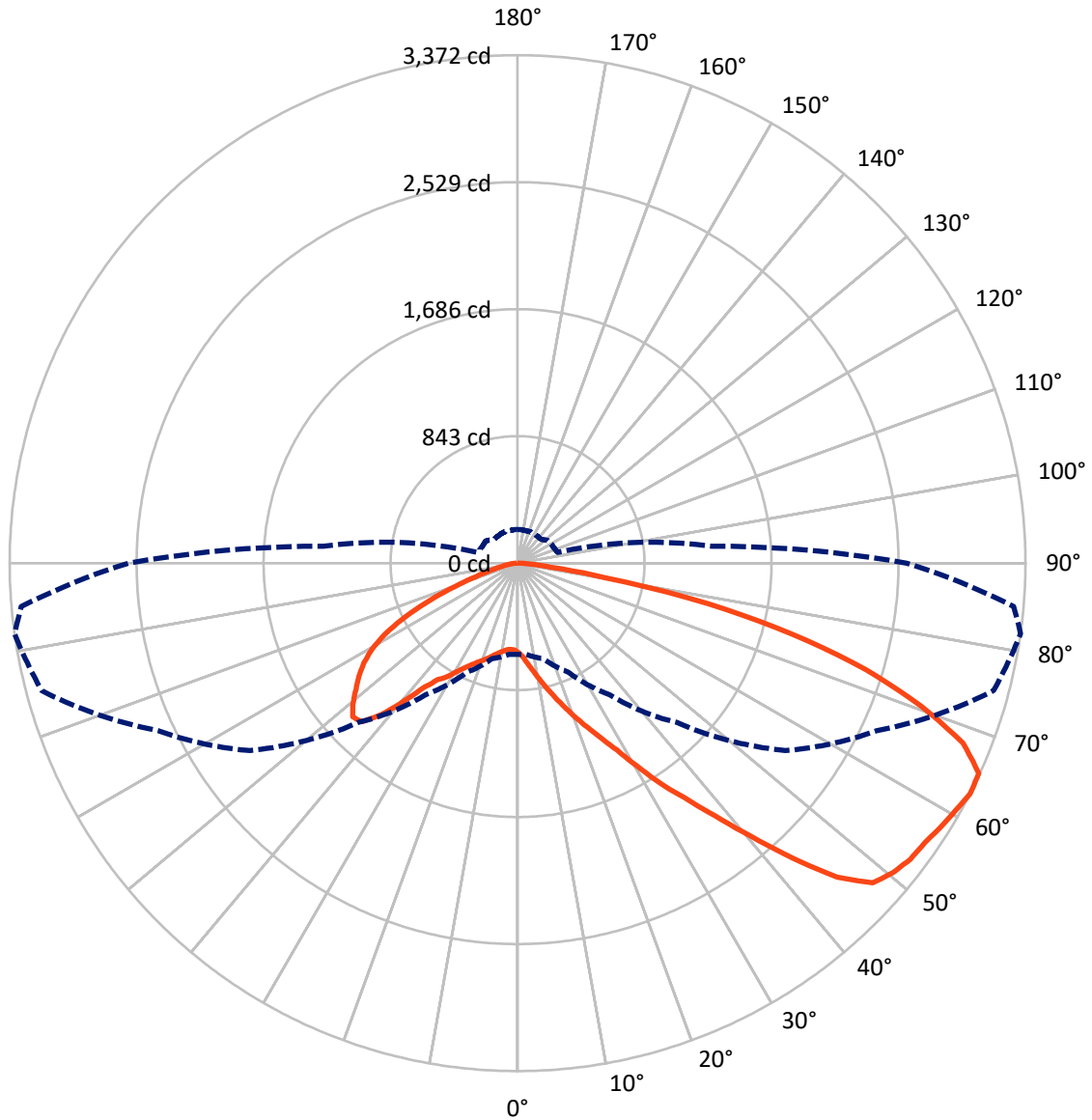
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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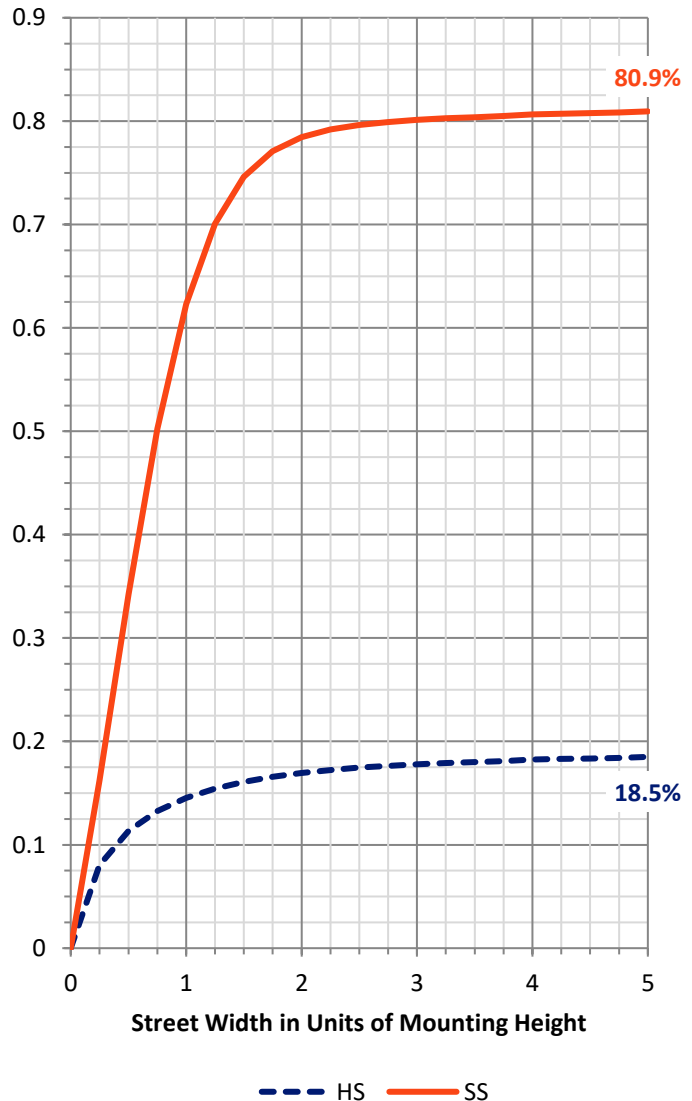
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1050.1	0.0	1050.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4524.0	0.0	4524.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	5574.2	0.0	5574.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.2
10°-20°	247.4	4.4
20°-30°	512.4	9.2
30°-40°	869.6	15.6
40°-50°	1184.2	21.2
50°-60°	1198.7	21.5
60°-70°	944.7	16.9
70°-80°	465.4	8.3
80°-90°	86.1	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°	5574.2	100.0
0°-180°	5574.2	100.0



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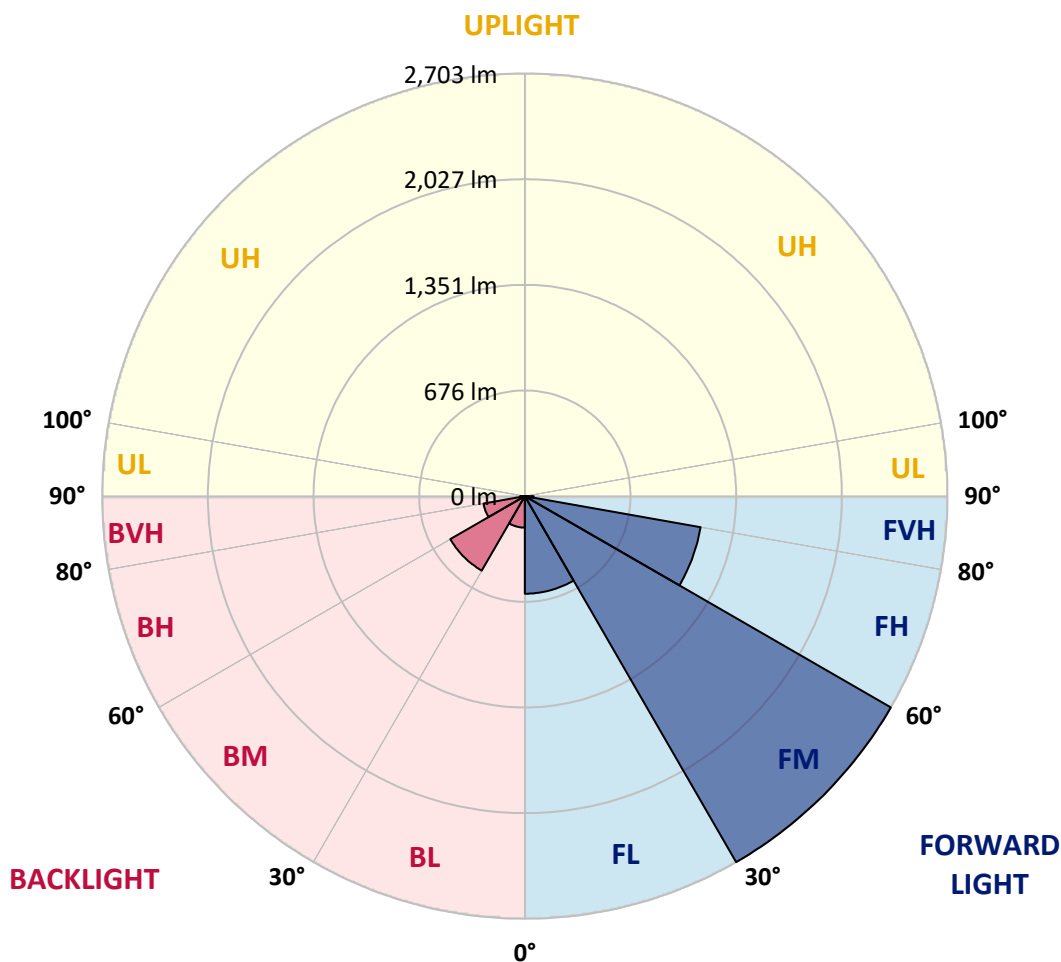
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.9	11.2			
FM (30°-60°)	2702.5	48.5			
FH (60°-80°)	1141.7	20.5			G1/1800
FVH (80°-90°)	55.9	1.0			G1/100
BL (0°-30°)	201.5	3.6	B1/500		
BM (30°-60°)	550.1	9.9	B1/1000		
BH (60°-80°)	268.4	4.8	B1/500		G1/500
BVH (80°-90°)	30.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	789.4	777.4	771.0	763.7	743.7	730.8	706.8	678.7	646.2	618.5	613.2
5°	956.0	943.9	945.6	927.9	898.6	871.3	826.4	773.4	711.6	664.2	647.8
7.5°	1073.6	1060.3	1063.5	1056.3	1032.6	1002.5	945.6	877.3	787.0	716.8	690.3
10°	1152.2	1153.8	1156.3	1153.4	1138.2	1116.9	1060.3	984.9	872.5	779.0	742.9
12.5°	1241.3	1245.8	1244.9	1246.2	1238.1	1221.3	1165.9	1094.8	963.6	846.0	799.1
15°	1354.9	1350.5	1354.1	1359.3	1350.5	1332.0	1283.1	1198.8	1059.1	920.7	862.5
17.5°	1479.3	1470.1	1479.7	1474.5	1468.1	1456.1	1402.3	1312.4	1157.9	1001.3	933.1
20°	1586.9	1580.9	1586.1	1586.9	1588.1	1585.7	1530.3	1434.8	1261.4	1089.2	1009.4
22.5°	1707.7	1704.9	1704.1	1704.5	1705.7	1708.5	1670.8	1568.8	1376.2	1181.5	1091.6
25°	1876.7	1873.8	1855.4	1834.9	1822.9	1831.7	1812.0	1720.9	1503.0	1285.1	1181.9
27.5°	2066.1	2061.7	2037.2	1985.4	1946.9	1953.3	1951.3	1888.7	1649.1	1403.9	1290.3
30°	2262.7	2251.9	2218.2	2145.5	2084.9	2073.7	2079.3	2058.5	1832.9	1561.6	1441.2
32.5°	2438.1	2418.1	2373.5	2300.1	2227.8	2195.3	2196.1	2205.3	2032.8	1745.4	1599.3
35°	2545.3	2532.0	2498.7	2424.5	2343.8	2322.1	2316.1	2362.3	2216.2	1915.6	1741.0
37.5°	2603.1	2590.2	2554.5	2494.7	2433.7	2424.9	2436.1	2507.6	2424.5	2127.9	1933.6
40°	2592.6	2579.0	2555.7	2514.0	2473.8	2480.7	2530.4	2640.8	2652.0	2381.9	2208.2
42.5°	2506.8	2492.3	2490.3	2487.5	2468.6	2498.7	2588.6	2738.3	2861.1	2675.3	2540.5
45°	2355.0	2346.2	2356.7	2404.8	2428.5	2486.7	2615.9	2785.7	3044.9	2973.5	2854.7
47.5°	2162.8	2157.6	2181.3	2257.5	2334.2	2449.8	2634.0	2798.5	3171.4	3171.4	3060.6
50°	1947.7	1945.7	1977.0	2087.8	2207.8	2381.9	2632.0	2810.6	3226.8	3229.6	3133.2
52.5°	1647.5	1657.9	1741.4	1887.5	2050.4	2275.6	2603.9	2844.3	3258.1	3264.5	3181.8
55°	1301.5	1311.6	1437.6	1634.2	1842.9	2146.4	2520.0	2834.2	3264.1	3278.5	3209.5
57.5°	1039.1	1041.1	1119.7	1353.3	1611.8	1981.0	2423.3	2767.6	3246.4	3309.4	3252.0
60°	813.1	819.5	872.1	1057.1	1343.7	1767.9	2315.3	2701.8	3256.5	3338.7	3290.6
62.5°	605.6	607.2	656.2	799.5	1067.6	1496.2	2168.8	2631.6	3270.5	3371.6	3306.2
65°	394.5	394.1	441.5	570.7	797.5	1202.8	1938.9	2521.6	3271.7	3364.4	3234.4
67.5°	250.8	252.4	272.9	354.4	533.8	907.8	1625.8	2317.3	3214.7	3189.4	2972.7
70°	203.5	203.9	210.3	231.6	325.1	620.5	1222.1	1997.9	3034.5	2840.7	2583.8
72.5°	181.4	181.8	185.0	187.4	216.7	372.8	801.9	1622.2	2714.2	2421.3	2143.5
75°	162.9	162.9	164.9	162.5	177.8	234.0	455.1	1219.7	2235.4	1885.5	1619.4
77.5°	142.9	142.5	142.5	141.3	153.7	171.0	228.0	851.2	1610.2	1285.9	1050.3
80°	121.2	120.4	121.6	120.8	132.8	129.6	132.8	525.4	872.9	589.6	447.1
82.5°	94.3	94.3	97.9	98.7	109.6	93.9	93.5	249.2	331.5	220.3	164.9
85°	49.4	55.4	74.6	77.9	82.7	59.0	68.6	116.4	132.8	84.3	60.2
87.5°	14.8	15.7	45.8	51.4	51.0	29.7	42.1	56.2	62.2	37.3	24.5
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°	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8	592.8
2.5°	600.0	586.0	556.3	529.8	509.7	490.4	477.2	470.4	461.5	462.7	459.9
5°	618.5	589.6	537.0	494.4	466.0	444.3	431.0	424.2	417.8	414.6	417.0
7.5°	646.2	601.2	527.8	476.4	446.7	428.2	421.0	419.0	417.4	416.2	418.2
10°	681.9	621.7	526.2	470.0	442.7	431.4	428.6	427.4	425.8	424.2	425.4
12.5°	718.4	644.1	531.8	471.6	449.1	440.7	437.1	435.5	431.4	429.4	429.8
15°	764.1	671.4	539.4	478.0	457.5	446.7	441.9	437.5	431.0	428.2	429.4
17.5°	813.1	703.9	549.8	484.0	460.7	447.5	437.9	431.4	425.0	421.0	421.4
20°	868.5	736.1	559.1	486.0	459.1	440.7	429.0	421.4	413.0	408.6	407.4
22.5°	925.9	769.8	566.3	484.4	450.3	429.0	415.8	406.6	396.5	389.7	390.1
25°	995.7	815.5	572.3	478.8	438.7	413.8	398.9	387.3	376.9	370.4	370.8
27.5°	1079.6	867.3	579.5	470.0	424.6	397.3	380.1	368.4	358.4	352.4	351.6
30°	1191.6	934.7	587.6	459.1	407.0	379.3	362.4	350.4	340.7	335.1	335.1
32.5°	1317.6	1017.0	593.2	446.3	387.3	360.0	344.7	335.1	327.9	320.3	319.5
35°	1427.2	1080.8	610.4	436.3	370.0	341.9	331.5	324.7	313.8	306.6	305.4
37.5°	1588.1	1193.2	661.4	433.4	349.2	327.9	325.9	313.0	300.6	287.0	285.8
40°	1847.4	1387.8	720.8	419.8	327.5	320.3	318.3	301.0	271.7	263.3	261.7
42.5°	2177.3	1622.2	727.2	380.1	312.2	313.8	307.8	274.1	261.3	254.8	253.2
45°	2475.0	1812.4	690.7	339.5	301.0	304.2	291.8	264.1	256.9	250.8	249.2
47.5°	2642.4	1871.0	621.7	309.0	292.6	295.8	266.1	259.3	252.0	246.0	244.4
50°	2689.4	1820.1	541.4	291.4	286.2	287.4	259.3	255.3	248.8	244.0	241.6
52.5°	2698.6	1743.8	467.2	280.9	281.3	270.5	253.2	250.0	246.0	238.4	235.6
55°	2702.6	1675.2	400.5	274.5	278.1	248.8	246.8	244.4	241.2	233.2	231.6
57.5°	2713.0	1587.3	348.4	269.7	274.1	238.8	239.6	238.0	234.0	230.4	229.6
60°	2683.3	1465.7	308.2	264.9	268.5	230.4	231.2	232.0	228.4	227.6	227.2
62.5°	2583.8	1293.1	274.1	258.5	256.9	221.9	221.9	225.2	221.9	223.1	223.1
65°	2378.7	1073.2	243.6	246.4	238.8	212.7	212.3	217.9	213.1	218.3	218.7
67.5°	2029.2	812.3	212.3	227.6	219.9	203.1	204.7	209.1	202.7	213.5	213.5
70°	1606.2	552.6	179.8	201.1	200.7	192.2	197.5	197.1	189.8	205.9	203.1
72.5°	1196.4	354.8	146.5	168.6	175.4	180.6	190.2	181.8	175.0	184.2	175.8
75°	836.0	222.3	115.6	133.2	146.1	167.8	181.4	164.5	154.5	151.7	149.3
77.5°	500.5	142.1	91.1	101.5	114.0	152.5	170.2	146.5	131.2	129.6	124.8
80°	230.8	92.7	69.4	75.9	81.1	130.8	154.9	125.2	106.8	105.2	99.5
82.5°	104.3	61.0	51.8	54.2	54.6	103.9	130.8	99.1	81.5	132.0	114.4
85°	48.6	39.3	33.7	32.1	32.5	69.4	95.1	68.2	92.7	72.2	55.0
87.5°	20.9	20.1	17.3	13.6	12.4	14.8	36.5	28.5	40.5	16.1	10.8
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)