

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: P672158

Luminaire Tested: **CCP-SA-1E-830-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-830-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2R distribution lens
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5518.3 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

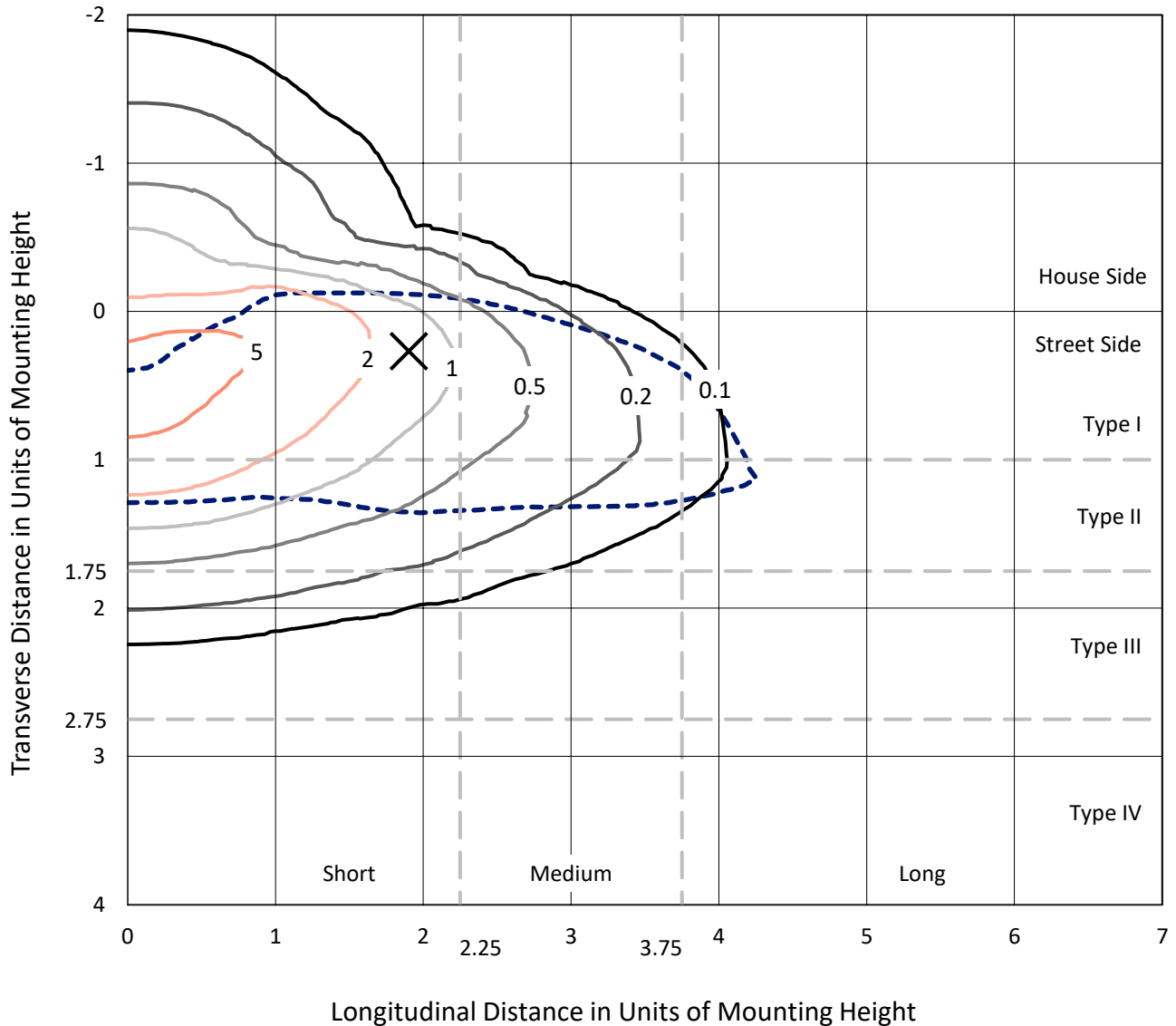
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P672158
 CATALOG NUMBER: CCP-SA-1E-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

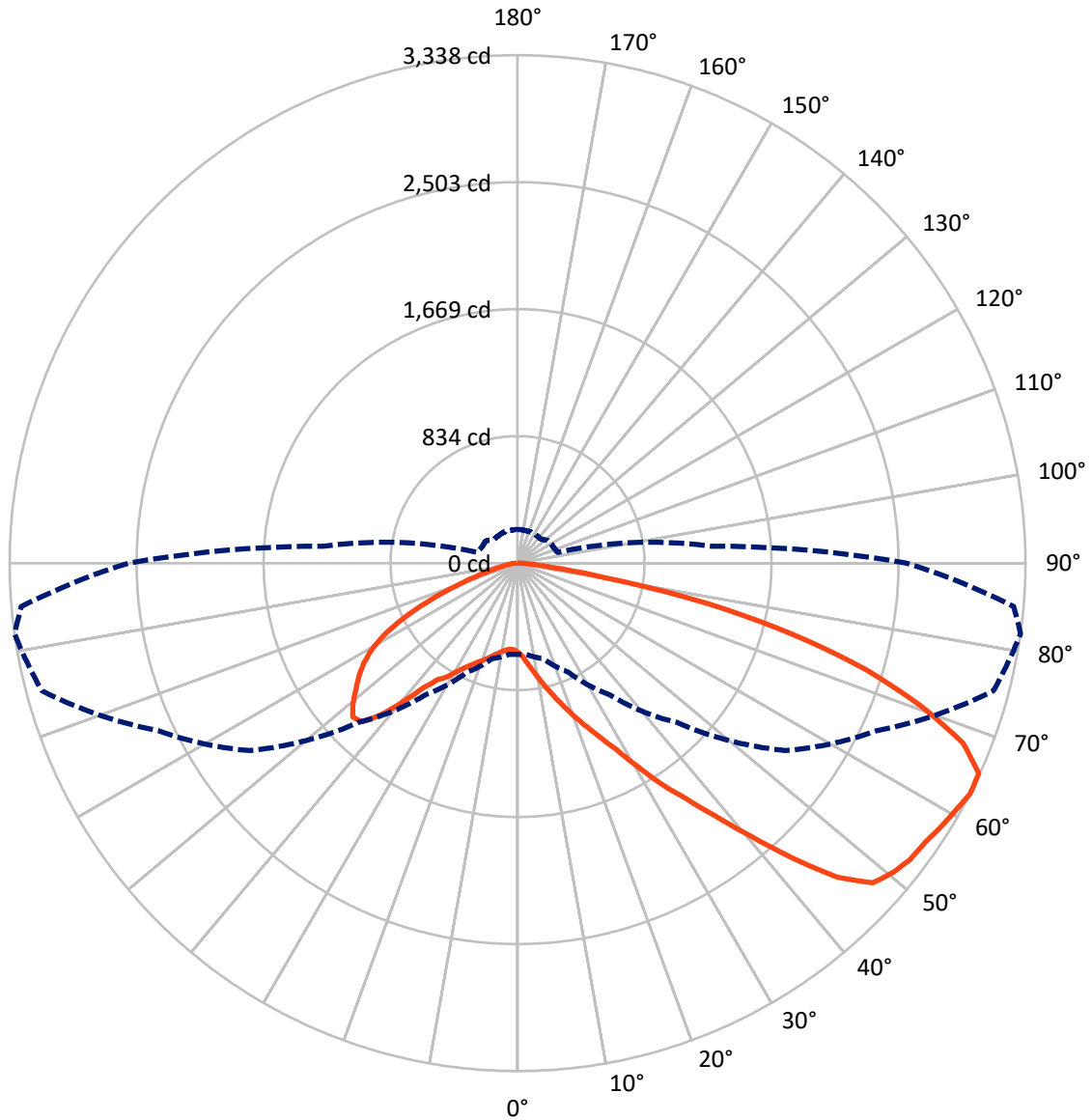
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P672158
CATALOG NUMBER: CCP-SA-1E-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P672158

CATALOG NUMBER: CCP-SA-1E-830-U-T2R

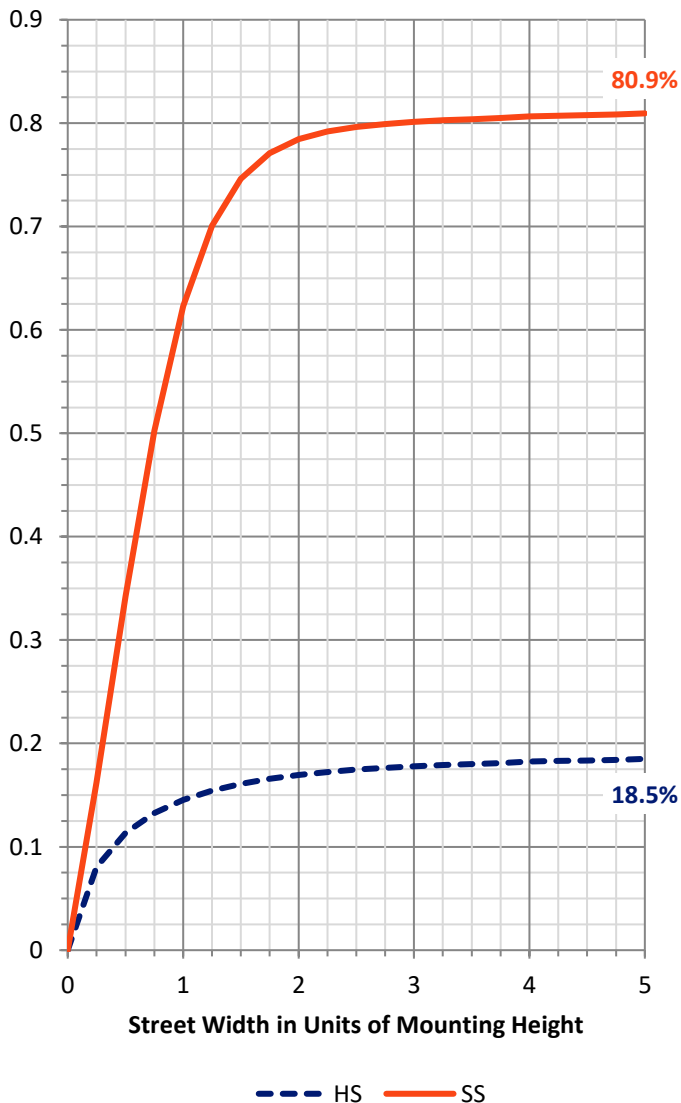
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.6	0.0	1039.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4478.7	0.0	4478.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	5518.3	0.0	5518.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.9	1.2
10°-20°	244.9	4.4
20°-30°	507.2	9.2
30°-40°	860.9	15.6
40°-50°	1172.4	21.2
50°-60°	1186.7	21.5
60°-70°	935.3	16.9
70°-80°	460.7	8.3
80°-90°	85.2	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°	5518.3	100.0
0°-180°	5518.3	100.0



REPORT NUMBER: P672158

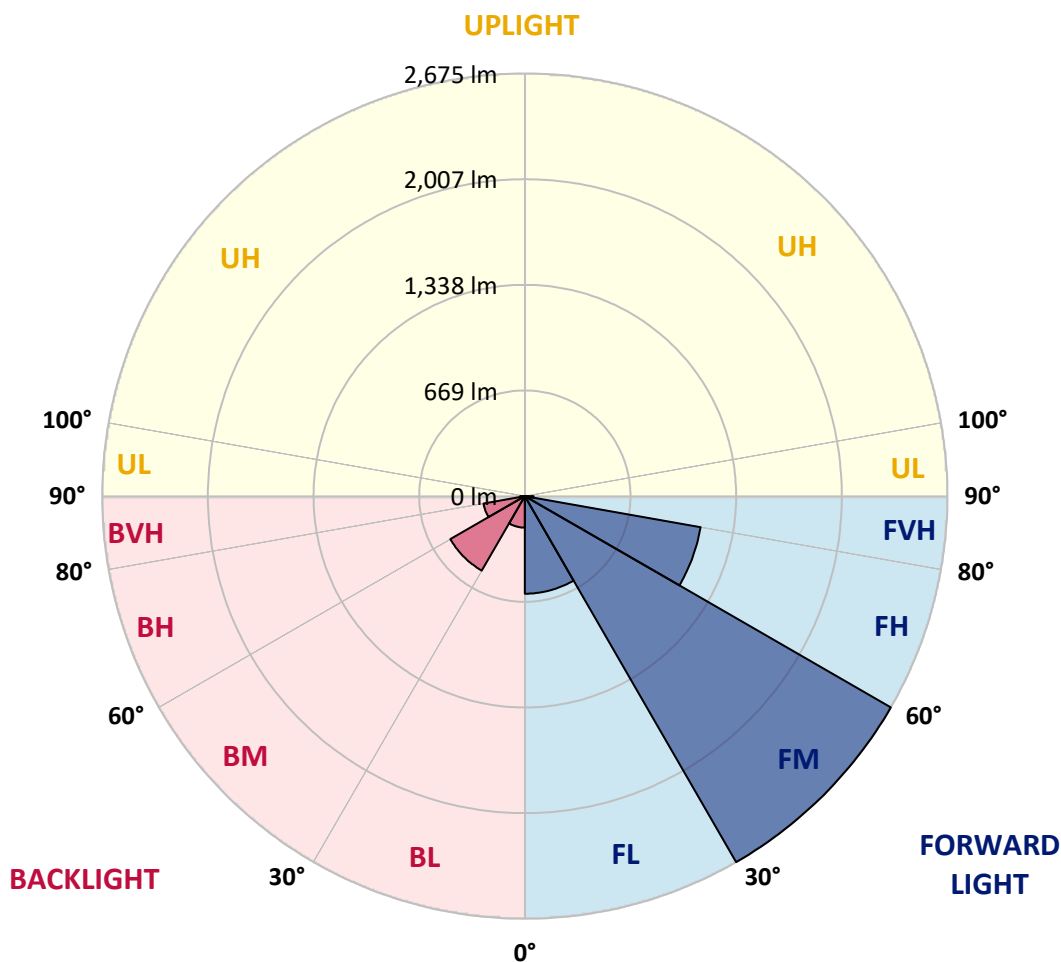
CATALOG NUMBER: CCP-SA-1E-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.6	11.2			
FM (30°-60°)	2675.5	48.5			
FH (60°-80°)	1130.2	20.5			G1/1800
FVH (80°-90°)	55.4	1.0			G1/100
BL (0°-30°)	199.5	3.6	B1/500		
BM (30°-60°)	544.5	9.9	B1/1000		
BH (60°-80°)	265.8	4.8	B1/500		G1/500
BVH (80°-90°)	29.9	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





REPORT NUMBER: P672158

CATALOG NUMBER: CCP-SA-1E-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8
2.5°	781.5	769.6	763.2	756.1	736.2	723.5	699.7	671.9	639.7	612.3	607.1
5°	946.4	934.5	936.1	918.6	889.6	862.6	818.1	765.6	704.4	657.6	641.3
7.5°	1062.8	1049.7	1052.9	1045.7	1022.3	992.5	936.1	868.5	779.1	709.6	683.4
10°	1140.7	1142.3	1144.7	1141.9	1126.8	1105.7	1049.7	975.0	863.8	771.2	735.4
12.5°	1228.9	1233.3	1232.5	1233.7	1225.7	1209.0	1154.2	1083.9	954.0	837.5	791.1
15°	1341.3	1337.0	1340.5	1345.7	1337.0	1318.7	1270.2	1186.8	1048.5	911.4	853.8
17.5°	1464.5	1455.4	1464.9	1459.7	1453.4	1441.5	1388.2	1299.2	1146.3	991.3	923.8
20°	1571.0	1565.0	1570.2	1571.0	1572.2	1569.8	1515.0	1420.4	1248.8	1078.3	999.3
22.5°	1690.6	1687.8	1687.0	1687.4	1688.6	1691.4	1654.0	1553.1	1362.4	1169.7	1080.7
25°	1857.9	1855.1	1836.8	1816.5	1804.6	1813.4	1793.9	1703.7	1488.0	1272.2	1170.1
27.5°	2045.4	2041.0	2016.8	1965.5	1927.4	1933.7	1931.8	1869.8	1632.6	1389.8	1277.4
30°	2240.1	2229.3	2196.0	2124.1	2064.1	2052.9	2058.5	2037.8	1814.5	1546.0	1426.8
32.5°	2413.7	2393.8	2349.7	2277.0	2205.5	2173.3	2174.1	2183.3	2012.4	1727.9	1583.3
35°	2519.8	2506.7	2473.7	2400.2	2320.3	2298.9	2292.9	2338.6	2194.0	1896.4	1723.6
37.5°	2577.0	2564.3	2528.9	2469.7	2409.3	2400.6	2411.7	2482.4	2400.2	2106.6	1914.3
40°	2566.7	2553.2	2530.1	2488.8	2449.1	2455.8	2505.1	2614.3	2625.5	2358.1	2186.0
42.5°	2481.6	2467.3	2465.4	2462.6	2443.9	2473.7	2562.7	2710.9	2832.5	2648.5	2515.0
45°	2331.5	2322.7	2333.0	2380.7	2404.2	2461.8	2589.7	2757.8	3014.4	2943.7	2826.1
47.5°	2141.1	2136.0	2159.4	2234.9	2310.8	2425.2	2607.6	2770.5	3139.6	3139.6	3029.9
50°	1928.2	1926.2	1957.2	2066.8	2185.6	2358.1	2605.6	2782.4	3194.4	3197.2	3101.9
52.5°	1631.0	1641.3	1724.0	1868.6	2029.9	2252.8	2577.8	2815.8	3225.4	3231.8	3149.9
55°	1288.5	1298.4	1423.2	1617.9	1824.5	2124.9	2494.8	2805.9	3231.4	3245.7	3177.3
57.5°	1028.7	1030.6	1108.5	1339.8	1595.6	1961.2	2399.0	2739.9	3213.9	3276.3	3219.5
60°	805.0	811.3	863.4	1046.5	1330.2	1750.2	2292.1	2674.7	3223.8	3305.3	3257.6
62.5°	599.6	601.1	649.6	791.5	1056.9	1481.2	2147.1	2605.2	3237.7	3337.9	3273.1
65°	390.6	390.2	437.0	565.0	789.5	1190.8	1919.4	2496.3	3238.9	3330.7	3202.0
67.5°	248.3	249.9	270.2	350.8	528.4	898.7	1609.5	2294.1	3182.5	3157.5	2942.9
70°	201.4	201.8	208.2	229.3	321.8	614.3	1209.8	1977.8	3004.1	2812.2	2557.9
72.5°	179.6	180.0	183.2	185.5	214.6	369.1	793.8	1606.0	2687.1	2397.0	2122.1
75°	161.3	161.3	163.3	160.9	176.0	231.6	450.6	1207.4	2213.1	1866.6	1603.2
77.5°	141.4	141.0	141.0	139.9	152.2	169.3	225.7	842.7	1594.0	1273.0	1039.8
80°	120.0	119.2	120.4	119.6	131.5	128.3	131.5	520.1	864.2	583.7	442.6
82.5°	93.4	93.4	96.9	97.7	108.5	93.0	92.6	246.7	328.2	218.1	163.3
85°	48.9	54.8	73.9	77.1	81.8	58.4	67.9	115.2	131.5	83.4	59.6
87.5°	14.7	15.5	45.3	50.9	50.5	29.4	41.7	55.6	61.6	37.0	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P672158
 CATALOG NUMBER: CCP-SA-1E-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8	586.8
2.5°	594.0	580.1	550.7	524.5	504.6	485.5	472.4	465.7	456.9	458.1	455.3
5°	612.3	583.7	531.6	489.5	461.3	439.8	426.7	420.0	413.6	410.4	412.8
7.5°	639.7	595.2	522.5	471.6	442.2	423.9	416.8	414.8	413.2	412.0	414.0
10°	675.0	615.4	520.9	465.3	438.2	427.1	424.3	423.1	421.6	420.0	421.2
12.5°	711.2	637.7	526.4	466.8	444.6	436.3	432.7	431.1	427.1	425.1	425.5
15°	756.5	664.7	534.0	473.2	452.9	442.2	437.4	433.1	426.7	423.9	425.1
17.5°	805.0	696.9	544.3	479.2	456.1	443.0	433.5	427.1	420.8	416.8	417.2
20°	859.8	728.7	553.5	481.2	454.5	436.3	424.7	417.2	408.8	404.5	403.3
22.5°	916.6	762.1	560.6	479.6	445.8	424.7	411.6	402.5	392.5	385.8	386.2
25°	985.7	807.3	566.6	474.0	434.3	409.6	394.9	383.4	373.1	366.7	367.1
27.5°	1068.8	858.6	573.7	465.3	420.4	393.3	376.3	364.7	354.8	348.8	348.1
30°	1179.6	925.4	581.7	454.5	402.9	375.5	358.8	346.9	337.3	331.8	331.8
32.5°	1304.4	1006.8	587.2	441.8	383.4	356.4	341.3	331.8	324.6	317.1	316.3
35°	1412.9	1070.0	604.3	431.9	366.3	338.5	328.2	321.4	310.7	303.6	302.4
37.5°	1572.2	1181.2	654.8	429.1	345.7	324.6	322.6	309.9	297.6	284.1	282.9
40°	1828.9	1373.9	713.6	415.6	324.2	317.1	315.1	298.0	269.0	260.6	259.1
42.5°	2155.4	1606.0	719.9	376.3	309.1	310.7	304.7	271.4	258.7	252.3	250.7
45°	2450.3	1794.3	683.8	336.1	298.0	301.2	288.8	261.4	254.3	248.3	246.7
47.5°	2615.9	1852.3	615.4	305.9	289.6	292.8	263.4	256.7	249.5	243.6	242.0
50°	2662.4	1801.8	536.0	288.5	283.3	284.5	256.7	252.7	246.3	241.6	239.2
52.5°	2671.6	1726.3	462.5	278.1	278.5	267.8	250.7	247.5	243.6	236.0	233.2
55°	2675.5	1658.4	396.5	271.8	275.3	246.3	244.4	242.0	238.8	230.8	229.3
57.5°	2685.9	1571.4	344.9	267.0	271.4	236.4	237.2	235.6	231.6	228.1	227.3
60°	2656.5	1451.0	305.1	262.2	265.8	228.1	228.9	229.6	226.1	225.3	224.9
62.5°	2557.9	1280.2	271.4	255.9	254.3	219.7	219.7	222.9	219.7	220.9	220.9
65°	2354.9	1062.4	241.2	244.0	236.4	210.6	210.2	215.7	211.0	216.1	216.5
67.5°	2008.8	804.2	210.2	225.3	217.7	201.0	202.6	207.0	200.6	211.4	211.4
70°	1590.1	547.1	178.0	199.1	198.7	190.3	195.5	195.1	187.9	203.8	201.0
72.5°	1184.4	351.2	145.0	166.9	173.6	178.8	188.3	180.0	173.2	182.4	174.0
75°	827.6	220.1	114.4	131.9	144.6	166.1	179.6	162.9	153.0	150.2	147.8
77.5°	495.5	140.7	90.2	100.5	112.8	151.0	168.5	145.0	129.9	128.3	123.6
80°	228.5	91.8	68.7	75.1	80.3	129.5	153.4	124.0	105.7	104.1	98.5
82.5°	103.3	60.4	51.3	53.6	54.0	102.9	129.5	98.1	80.7	130.7	113.2
85°	48.1	38.9	33.4	31.8	32.2	68.7	94.2	67.5	91.8	71.5	54.4
87.5°	20.7	19.9	17.1	13.5	12.3	14.7	36.2	28.2	40.1	15.9	10.7
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)