

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: P672180

Luminaire Tested: **CCP-SA-1E-840-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672180
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1E-840-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2R distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5921.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

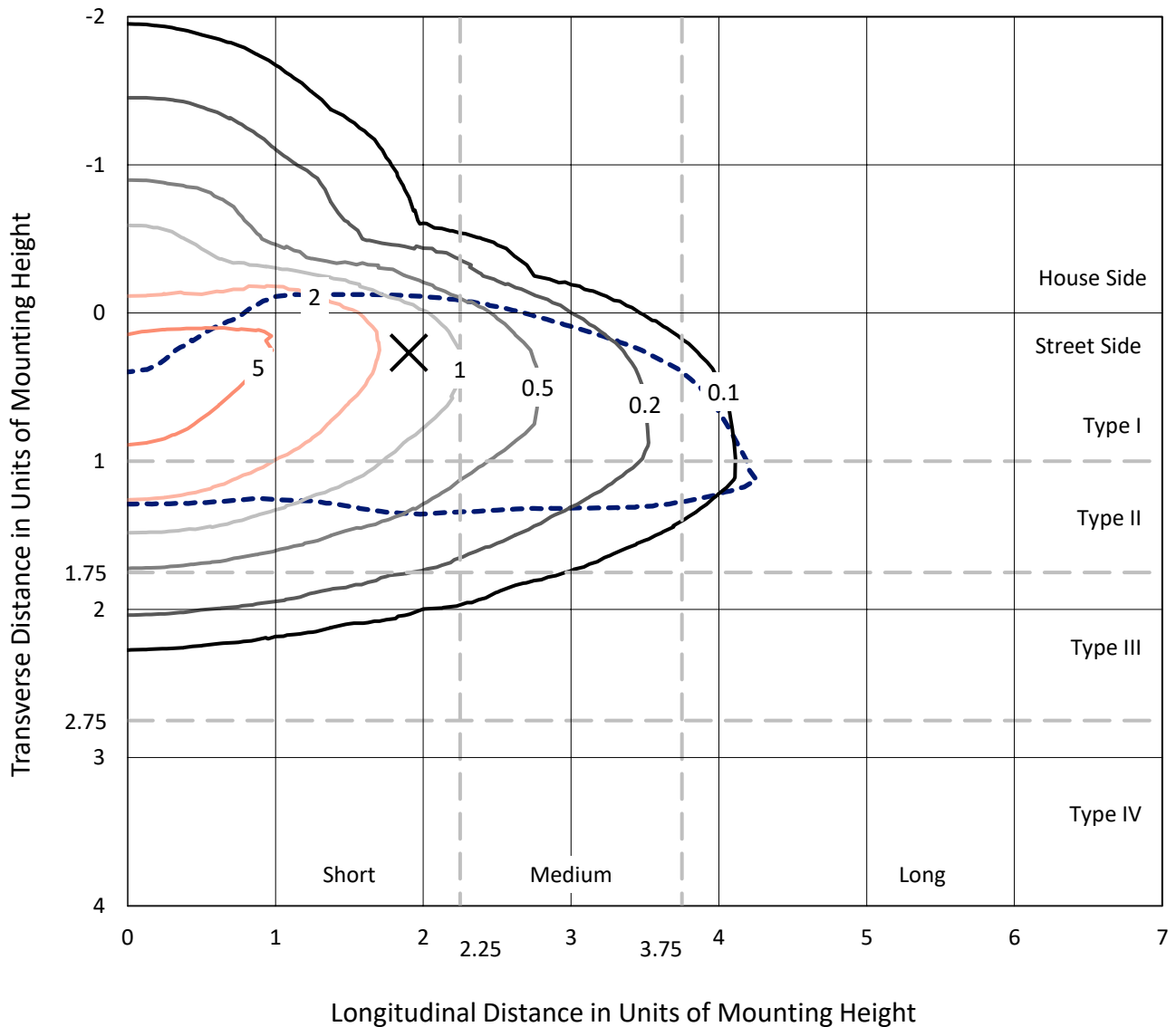
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

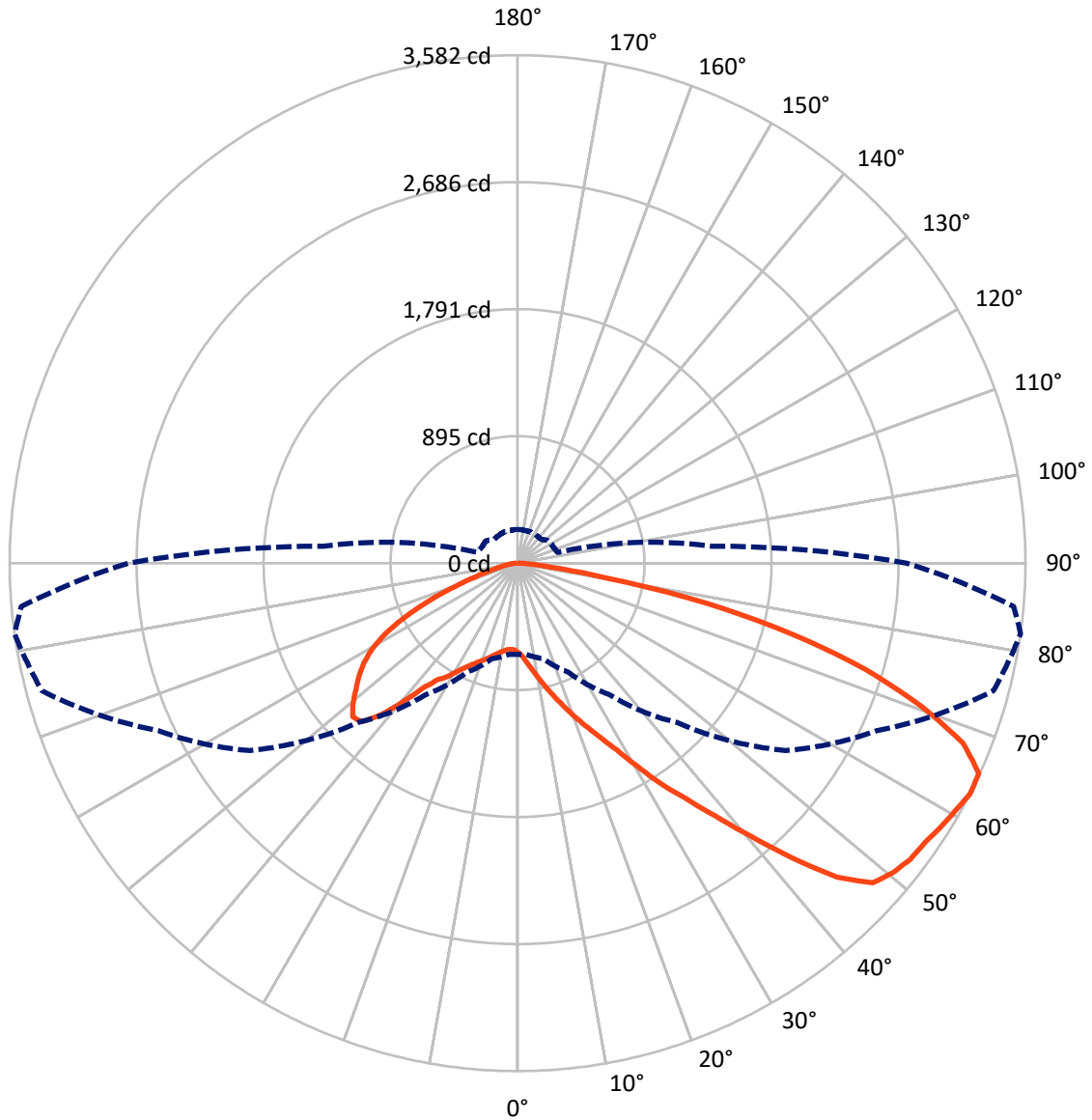
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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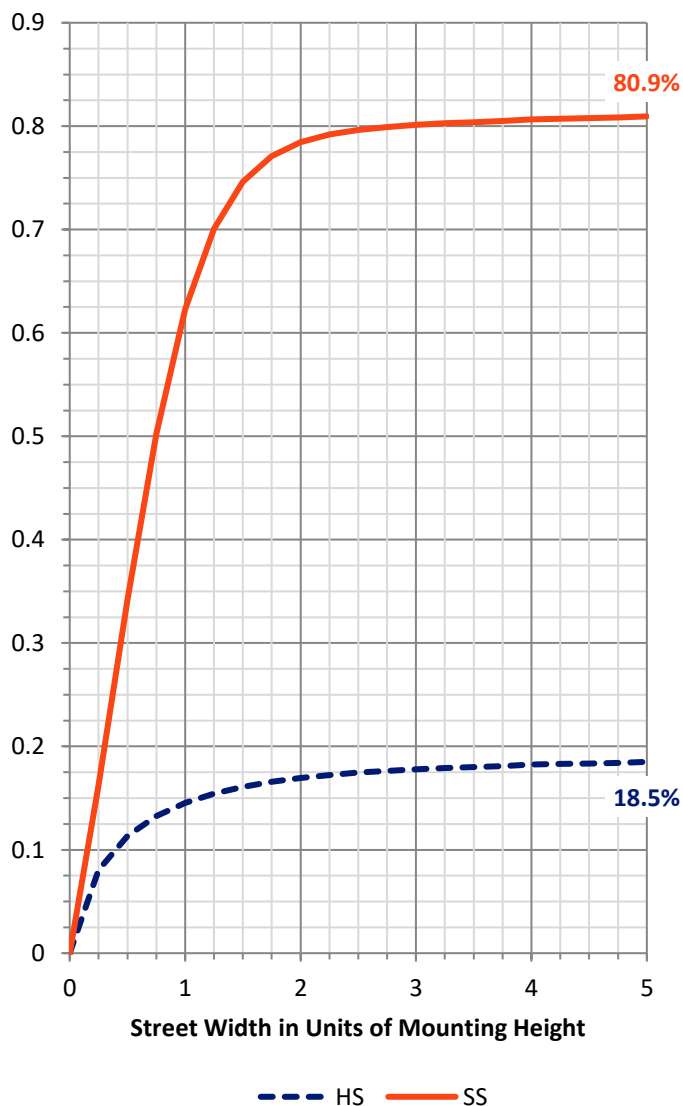
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1115.5	0.0	1115.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4805.6	0.0	4805.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	5921.1	0.0	5921.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.2
10°-20°	262.8	4.4
20°-30°	544.3	9.2
30°-40°	923.8	15.6
40°-50°	1258.0	21.2
50°-60°	1273.3	21.5
60°-70°	1003.5	16.9
70°-80°	494.4	8.3
80°-90°	91.4	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°	5921.1	100.0
0°-180°	5921.1	100.0



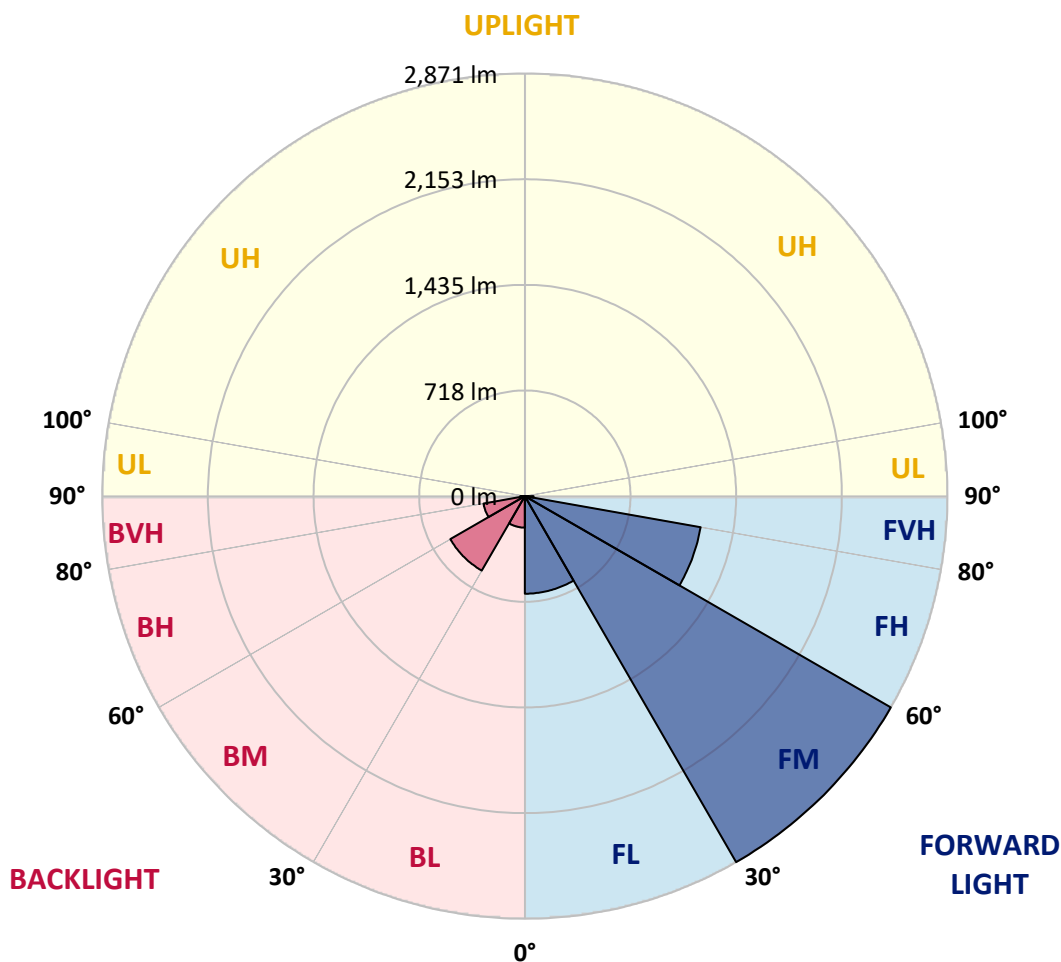
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.7	11.2			
FM (30°-60°)	2870.8	48.5			
FH (60°-80°)	1212.7	20.5			G1/1800
FVH (80°-90°)	59.4	1.0			G1/100
BL (0°-30°)	214.0	3.6	B1/500		
BM (30°-60°)	584.3	9.9	B1/1000		
BH (60°-80°)	285.2	4.8	B1/500		G1/500
BVH (80°-90°)	32.0	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°	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
2.5°	838.6	825.8	819.0	811.3	790.0	776.3	750.7	720.9	686.4	657.0	651.4
5°	1015.5	1002.7	1004.4	985.6	954.5	925.5	877.8	821.5	755.9	705.6	688.1
7.5°	1140.4	1126.3	1129.7	1122.1	1096.9	1064.9	1004.4	931.9	836.0	761.4	733.3
10°	1224.0	1225.7	1228.2	1225.2	1209.0	1186.4	1126.3	1046.2	926.8	827.5	789.1
12.5°	1318.6	1323.3	1322.4	1323.7	1315.2	1297.3	1238.5	1163.0	1023.6	898.7	848.8
15°	1439.3	1434.6	1438.4	1443.9	1434.6	1415.0	1362.9	1273.4	1125.1	978.0	916.2
17.5°	1571.4	1561.6	1571.8	1566.3	1559.5	1546.7	1489.6	1394.1	1229.9	1063.7	991.2
20°	1685.7	1679.3	1684.8	1685.7	1686.9	1684.4	1625.6	1524.1	1339.9	1157.0	1072.2
22.5°	1814.0	1811.0	1810.1	1810.6	1811.9	1814.8	1774.8	1666.5	1461.8	1255.1	1159.6
25°	1993.5	1990.5	1970.9	1949.1	1936.3	1945.7	1924.8	1828.1	1596.6	1365.1	1255.5
27.5°	2194.7	2190.0	2164.0	2109.0	2068.1	2074.9	2072.8	2006.3	1751.7	1491.3	1370.6
30°	2403.6	2392.1	2356.3	2279.1	2214.7	2202.8	2208.8	2186.6	1947.0	1658.8	1530.9
32.5°	2589.9	2568.6	2521.2	2443.2	2366.5	2332.0	2332.8	2342.6	2159.3	1854.1	1698.9
35°	2703.7	2689.6	2654.3	2575.4	2489.7	2466.7	2460.3	2509.3	2354.1	2034.8	1849.4
37.5°	2765.1	2751.5	2713.5	2650.0	2585.2	2575.8	2587.8	2663.6	2575.4	2260.3	2054.0
40°	2754.0	2739.5	2714.8	2670.5	2627.8	2635.1	2687.9	2805.2	2817.1	2530.2	2345.6
42.5°	2662.8	2647.4	2645.3	2642.3	2622.3	2654.3	2749.8	2908.8	3039.2	2841.8	2698.6
45°	2501.6	2492.3	2503.3	2554.5	2579.7	2641.5	2778.7	2959.1	3234.5	3158.6	3032.4
47.5°	2297.4	2291.9	2317.0	2398.0	2479.5	2602.2	2797.9	2972.7	3368.8	3368.8	3251.1
50°	2068.9	2066.8	2100.0	2217.7	2345.2	2530.2	2795.8	2985.5	3427.6	3430.6	3328.3
52.5°	1750.0	1761.1	1849.8	2005.0	2178.1	2417.2	2766.0	3021.3	3460.9	3467.7	3379.9
55°	1382.6	1393.2	1527.1	1736.0	1957.7	2280.0	2676.9	3010.7	3467.3	3482.6	3409.3
57.5°	1103.7	1105.9	1189.4	1437.5	1712.1	2104.3	2574.1	2939.9	3448.5	3515.4	3454.5
60°	863.7	870.5	926.4	1122.9	1427.3	1877.9	2459.4	2870.0	3459.2	3546.5	3495.4
62.5°	643.3	645.0	697.0	849.2	1134.0	1589.3	2303.8	2795.4	3474.1	3581.5	3512.0
65°	419.1	418.6	469.0	606.2	847.1	1277.7	2059.5	2678.6	3475.4	3573.8	3435.7
67.5°	266.4	268.2	289.9	376.4	567.0	964.3	1727.0	2461.6	3414.8	3388.0	3157.7
70°	216.1	216.6	223.4	246.0	345.3	659.1	1298.1	2122.2	3223.4	3017.5	2744.6
72.5°	192.7	193.1	196.5	199.1	230.2	396.1	851.8	1723.2	2883.2	2572.0	2277.0
75°	173.1	173.1	175.2	172.7	188.9	248.5	483.4	1295.6	2374.6	2002.8	1720.2
77.5°	151.8	151.3	151.3	150.1	163.3	181.6	242.1	904.2	1710.4	1365.9	1115.7
80°	128.7	127.9	129.2	128.3	141.1	137.7	141.1	558.1	927.2	626.3	474.9
82.5°	100.2	100.2	104.0	104.9	116.4	99.8	99.3	264.7	352.1	234.0	175.2
85°	52.4	58.8	79.3	82.7	87.8	62.7	72.9	123.6	141.1	89.5	63.9
87.5°	15.8	16.6	48.6	54.6	54.1	31.5	44.8	59.7	66.1	39.6	26.0
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°	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7	629.7
2.5°	637.3	622.4	590.9	562.7	541.4	521.0	506.9	499.6	490.3	491.5	488.6
5°	657.0	626.3	570.4	525.2	495.0	471.9	457.9	450.6	443.8	440.4	442.9
7.5°	686.4	638.6	560.6	506.0	474.5	454.9	447.2	445.1	443.4	442.1	444.2
10°	724.3	660.4	558.9	499.2	470.2	458.3	455.3	454.0	452.3	450.6	451.9
12.5°	763.1	684.2	564.9	500.9	477.1	468.1	464.3	462.6	458.3	456.2	456.6
15°	811.7	713.2	573.0	507.7	486.0	474.5	469.4	464.7	457.9	454.9	456.2
17.5°	863.7	747.8	584.1	514.1	489.4	475.3	465.1	458.3	451.5	447.2	447.6
20°	922.6	781.9	593.9	516.3	487.7	468.1	455.7	447.6	438.7	434.0	432.7
22.5°	983.5	817.7	601.5	514.6	478.3	455.7	441.7	431.9	421.2	414.0	414.4
25°	1057.7	866.3	607.9	508.6	466.0	439.5	423.8	411.4	400.3	393.5	393.9
27.5°	1146.8	921.3	615.6	499.2	451.0	422.1	403.7	391.4	380.7	374.3	373.5
30°	1265.7	992.9	624.1	487.7	432.3	402.9	385.0	372.2	361.9	356.0	356.0
32.5°	1399.6	1080.3	630.1	474.1	411.4	382.4	366.2	356.0	348.3	340.2	339.3
35°	1516.0	1148.1	648.4	463.4	393.1	363.2	352.1	344.9	333.4	325.7	324.4
37.5°	1686.9	1267.4	702.6	460.4	370.9	348.3	346.2	332.5	319.3	304.8	303.5
40°	1962.3	1474.2	765.7	445.9	347.9	340.2	338.1	319.7	288.6	279.7	278.0
42.5°	2312.8	1723.2	772.5	403.7	331.7	333.4	327.0	291.2	277.5	270.7	269.0
45°	2629.1	1925.3	733.7	360.7	319.7	323.1	309.9	280.5	272.8	266.4	264.7
47.5°	2806.9	1987.5	660.4	328.3	310.8	314.2	282.6	275.4	267.7	261.3	259.6
50°	2856.8	1933.4	575.1	309.5	304.0	305.2	275.4	271.1	264.3	259.2	256.6
52.5°	2866.6	1852.4	496.2	298.4	298.8	287.3	269.0	265.6	261.3	253.2	250.2
55°	2870.8	1779.5	425.5	291.6	295.4	264.3	262.2	259.6	256.2	247.7	246.0
57.5°	2881.9	1686.1	370.0	286.5	291.2	253.7	254.5	252.8	248.5	244.7	243.9
60°	2850.4	1556.9	327.4	281.4	285.2	244.7	245.6	246.4	242.6	241.7	241.3
62.5°	2744.6	1373.6	291.2	274.5	272.8	235.8	235.8	239.2	235.8	237.0	237.0
65°	2526.8	1140.0	258.8	261.8	253.7	225.9	225.5	231.5	226.4	231.9	232.3
67.5°	2155.5	862.9	225.5	241.7	233.6	215.7	217.4	222.1	215.3	226.8	226.8
70°	1706.1	587.0	191.0	213.6	213.2	204.2	209.7	209.3	201.6	218.7	215.7
72.5°	1270.9	376.9	155.6	179.1	186.3	191.8	202.1	193.1	185.9	195.7	186.7
75°	888.0	236.2	122.8	141.5	155.2	178.2	192.7	174.8	164.1	161.1	158.6
77.5°	531.6	150.9	96.8	107.9	121.1	162.0	180.8	155.6	139.4	137.7	132.6
80°	245.1	98.5	73.8	80.6	86.1	139.0	164.6	133.0	113.4	111.7	105.7
82.5°	110.8	64.8	55.0	57.6	58.0	110.4	139.0	105.3	86.5	140.3	121.5
85°	51.6	41.8	35.8	34.1	34.5	73.8	101.0	72.5	98.5	76.7	58.4
87.5°	22.2	21.3	18.3	14.5	13.2	15.8	38.8	30.3	43.1	17.1	11.5
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)