

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: P553671

Luminaire Tested: **ARB-B3-LED-D1-T4-8030**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34663)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B3-LED-D1-T4-8030
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
80 CRI, 3000K LEDS AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7300 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

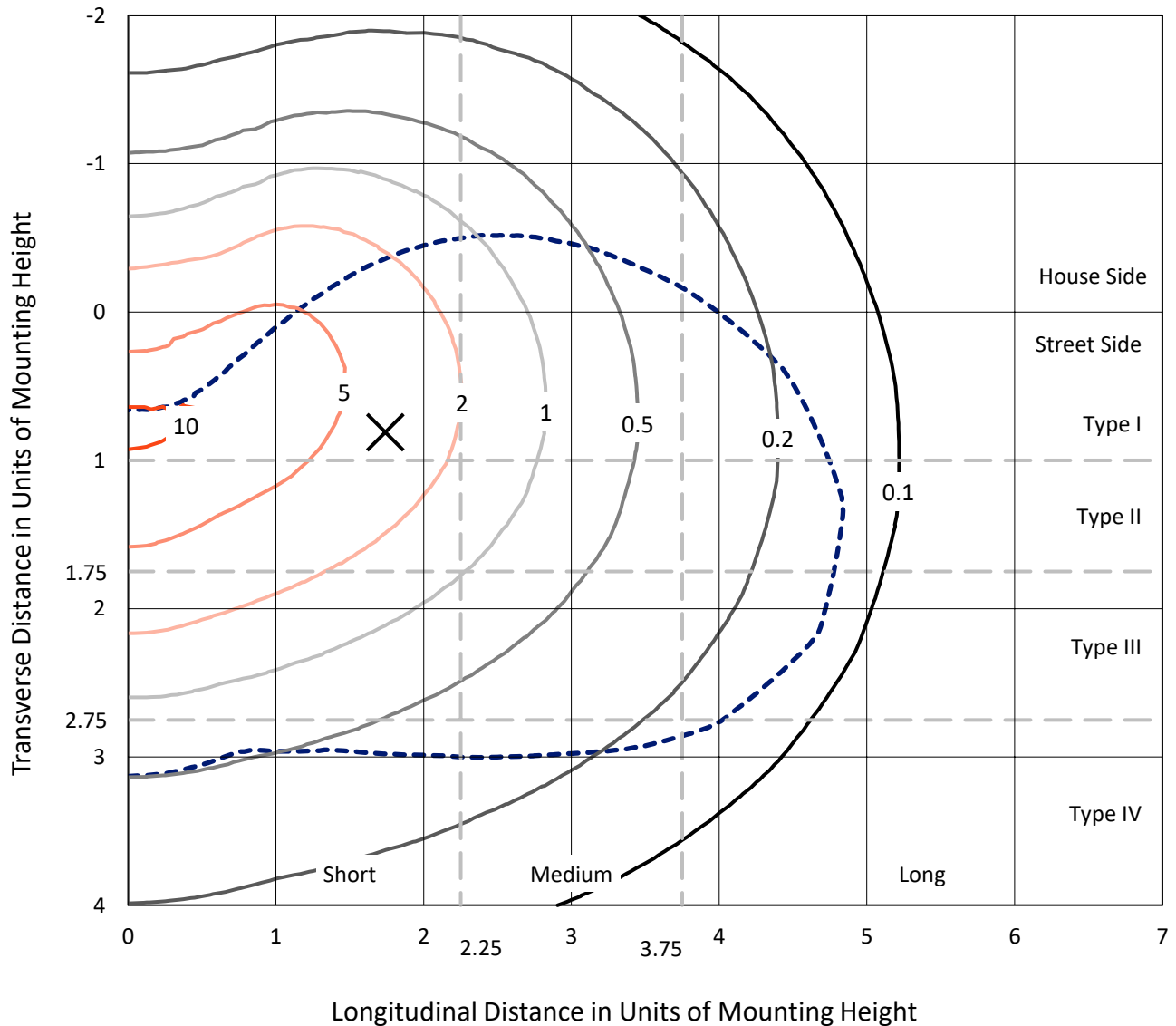
Input Watts (W): 99
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

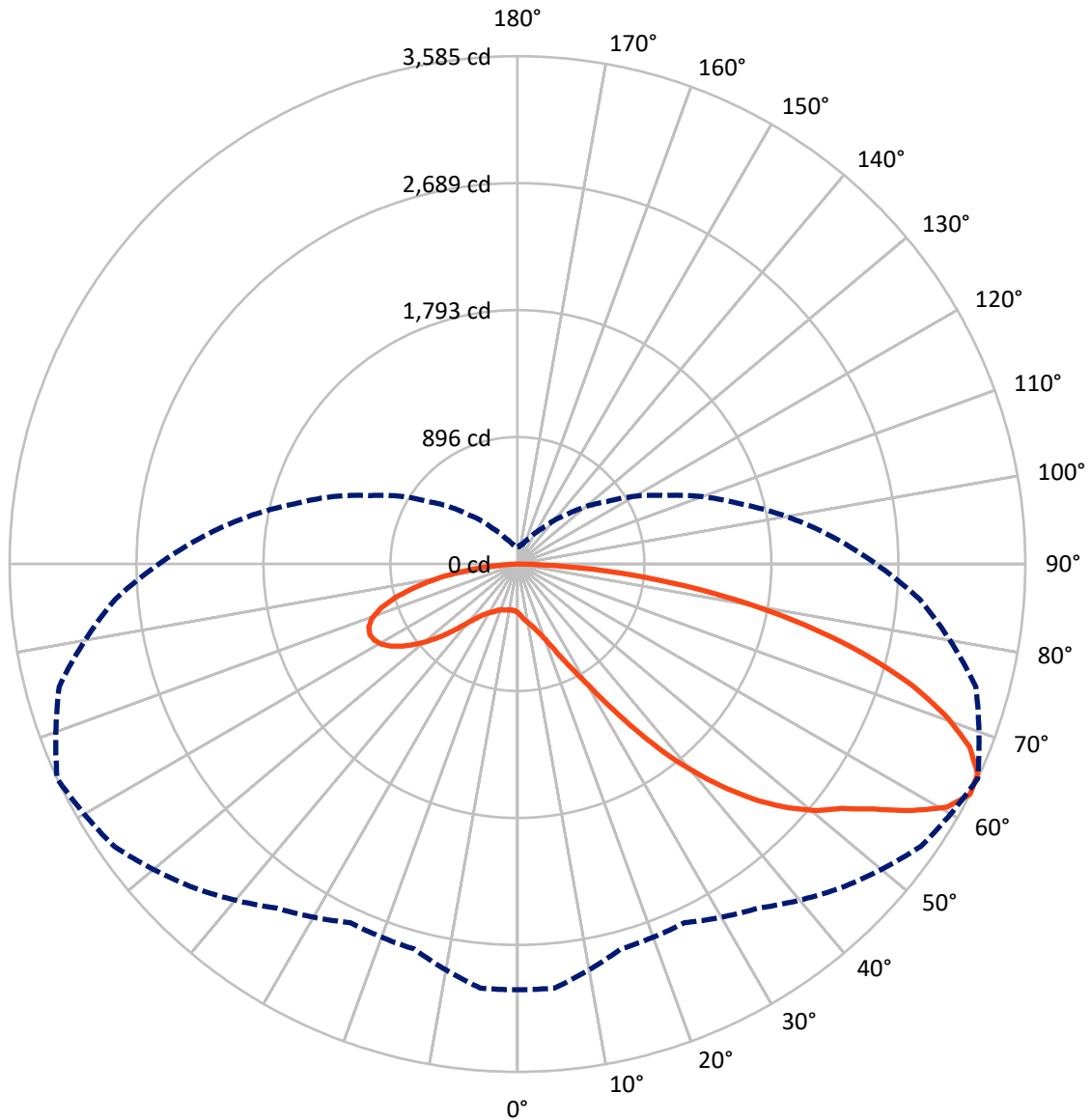
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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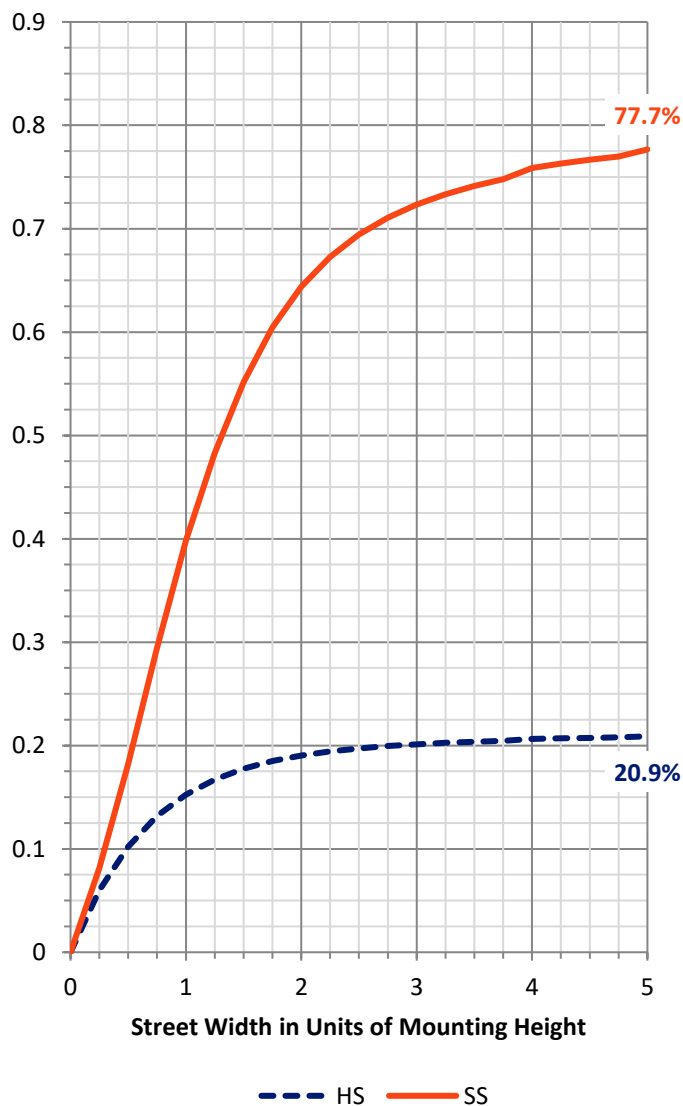
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1543.1	0.0	1543.1
	% Fixture	21.1	0.0	21.1
Street Side	Lumens	5756.9	0.0	5756.9
	% Fixture	78.9	0.0	78.9
Total	Lumens	7300.0	0.0	7300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	0.5
10°-20°	115.6	1.6
20°-30°	261.3	3.6
30°-40°	619.8	8.5
40°-50°	1109.1	15.2
50°-60°	1616.2	22.1
60°-70°	1841.5	25.2
70°-80°	1327.3	18.2
80°-90°	374.6	5.1
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°	7300.0	100.0
0°-180°	7300.0	100.0

Coefficient of Utilization



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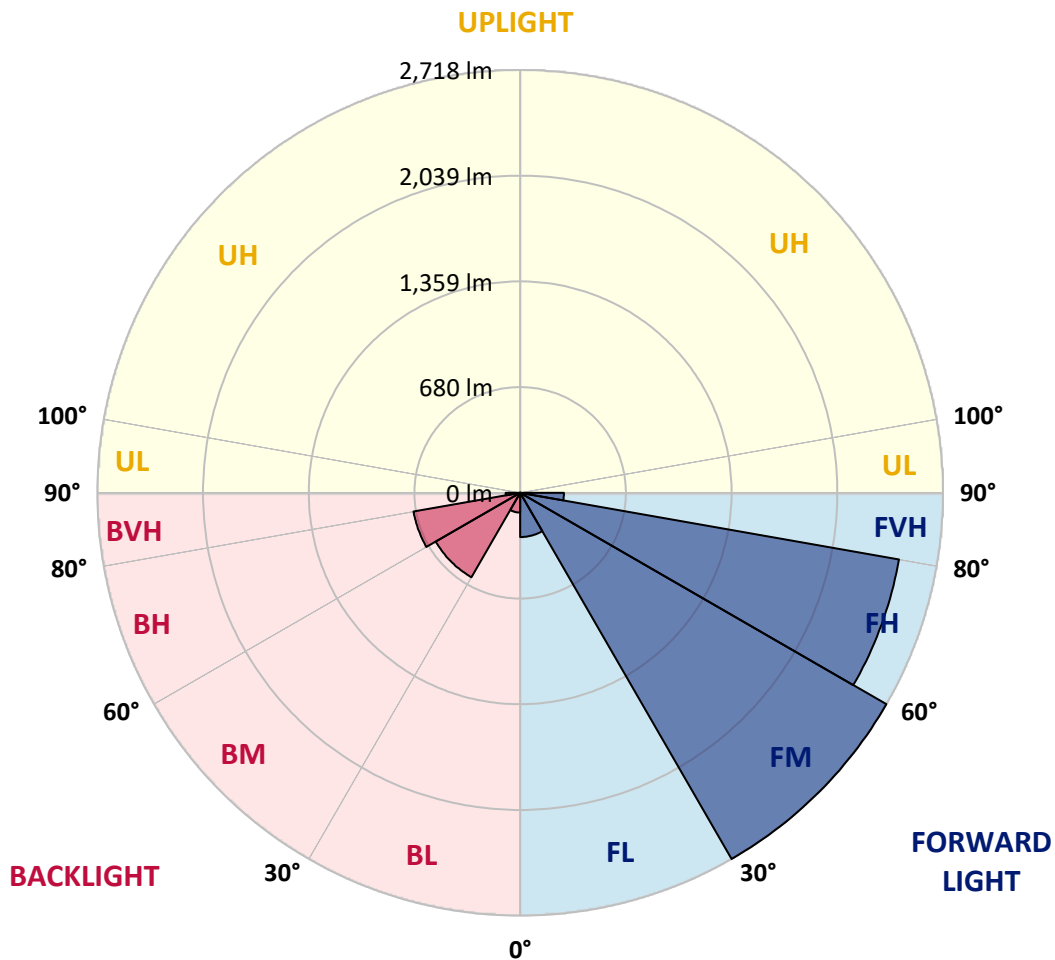
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.4	3.9			
FM (30°-60°)	2718.4	37.2			
FH (60°-80°)	2472.9	33.9			G2/5000
FVH (80°-90°)	281.2	3.9			G3/500
BL (0°-30°)	127.1	1.7	B1/500		
BM (30°-60°)	626.7	8.6	B1/1000		
BH (60°-80°)	695.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	93.4	1.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9
2.5°	382.2	378.9	378.9	378.0	374.7	370.5	365.4	358.7	354.5	347.8	344.4
5°	415.8	415.8	414.1	411.6	406.6	399.9	390.6	381.4	371.3	359.5	354.5
7.5°	447.7	447.7	446.1	440.2	434.3	426.7	415.0	402.4	388.1	372.1	364.6
10°	483.0	481.3	477.1	470.4	462.0	451.1	438.5	423.4	406.6	387.3	377.2
12.5°	512.4	512.4	510.7	504.0	493.1	478.8	464.5	446.9	428.4	404.1	392.3
15°	545.2	544.3	544.3	539.3	530.1	514.9	496.5	478.8	455.3	423.4	409.9
17.5°	607.3	604.8	598.1	583.8	573.7	562.0	544.3	519.1	488.9	448.6	430.1
20°	690.5	694.7	673.7	649.3	629.2	619.1	603.1	570.4	526.7	470.4	446.9
22.5°	820.7	814.8	778.7	751.8	718.2	698.9	686.3	641.8	582.1	512.4	481.3
25°	953.4	949.2	911.4	874.5	837.5	819.0	793.0	740.1	651.9	566.2	523.3
27.5°	1082.0	1082.8	1054.2	1019.8	994.6	975.3	927.4	856.8	738.4	629.2	578.8
30°	1292.0	1311.3	1255.8	1234.0	1222.2	1202.9	1136.6	996.3	854.3	710.7	645.1
32.5°	1688.5	1678.4	1600.3	1511.2	1485.2	1454.9	1369.2	1201.2	1013.1	819.0	733.3
35°	2114.3	2087.5	1947.2	1820.3	1747.3	1696.9	1619.6	1431.4	1202.1	970.2	857.7
37.5°	2289.1	2280.7	2189.9	2090.8	2010.2	1947.2	1874.1	1696.0	1434.8	1144.1	995.4
40°	2430.2	2427.7	2355.4	2274.8	2234.5	2163.9	2087.5	1936.3	1677.5	1337.3	1172.7
42.5°	2524.3	2525.1	2460.4	2398.3	2389.0	2345.4	2292.4	2166.4	1897.6	1531.4	1343.2
45°	2600.7	2601.6	2502.4	2476.4	2501.6	2504.1	2474.7	2383.2	2116.0	1751.5	1531.4
47.5°	2664.6	2661.2	2534.4	2502.4	2568.8	2637.7	2626.8	2571.3	2332.8	1947.2	1715.3
50°	2694.8	2685.6	2549.5	2521.8	2601.6	2709.1	2737.6	2736.0	2528.5	2121.1	1890.1
52.5°	2820.8	2793.1	2639.4	2613.3	2683.9	2814.1	2863.6	2865.3	2709.9	2289.1	2047.1
55°	3262.7	3253.4	2989.7	2853.6	2889.7	3032.5	3070.3	3053.5	2893.9	2445.3	2194.1
57.5°	3303.8	3289.5	3093.0	2988.0	3055.2	3212.3	3302.1	3283.7	3092.1	2606.6	2310.1
60°	3198.8	3171.9	2991.3	2942.6	3067.8	3278.6	3450.8	3484.4	3241.7	2759.5	2451.2
62.5°	3005.6	3004.8	2814.1	2793.1	2964.5	3231.6	3476.0	3585.2	3350.0	2849.4	2531.0
65°	2747.7	2740.2	2578.0	2598.2	2793.1	3093.0	3388.7	3570.1	3374.4	2864.5	2552.0
67.5°	2327.7	2348.7	2269.8	2373.9	2572.2	2895.6	3221.5	3440.7	3286.2	2795.6	2502.4
70°	2017.7	2038.7	1988.3	2103.4	2320.2	2644.4	3000.6	3206.4	3085.4	2648.6	2377.3
72.5°	1765.7	1757.3	1717.0	1836.3	2042.1	2346.2	2696.5	2906.5	2800.6	2417.6	2176.5
75°	1492.7	1476.8	1437.3	1538.9	1748.1	2015.2	2321.0	2520.9	2432.7	2127.8	1908.5
77.5°	1208.0	1197.0	1157.6	1235.7	1398.6	1668.3	1944.7	2081.6	2026.1	1764.9	1583.4
80°	940.8	918.1	875.3	934.9	1071.9	1276.8	1486.0	1597.7	1539.8	1344.0	1208.8
82.5°	621.6	641.8	623.3	625.8	748.5	898.8	1062.6	1103.8	1075.2	922.3	836.7
85°	368.8	359.5	346.1	349.5	413.3	518.3	600.6	627.5	601.5	506.5	466.2
87.5°	79.0	83.2	86.5	77.3	106.7	141.1	158.8	162.1	164.6	142.0	125.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9	341.9
2.5°	341.9	336.9	332.7	328.5	325.1	323.4	321.7	320.9	320.1	320.9
5°	349.5	339.4	330.1	321.7	315.0	310.0	304.9	302.4	299.9	299.9
7.5°	357.0	341.9	327.6	315.0	304.1	294.0	287.3	283.1	279.7	279.7
10°	366.3	346.9	327.6	310.0	294.8	283.1	272.2	266.3	262.1	261.2
12.5°	379.7	354.5	331.0	309.1	289.8	273.8	261.2	252.0	247.0	246.1
15°	394.8	363.7	334.3	309.1	285.6	263.8	248.6	237.7	231.8	230.2
17.5°	409.9	373.0	339.4	308.3	279.7	255.4	237.7	225.1	219.2	217.6
20°	425.1	381.4	341.1	304.9	273.0	247.0	226.8	214.2	206.6	206.6
22.5°	452.8	399.0	352.0	307.4	271.3	241.9	218.4	205.0	198.2	196.6
25°	489.7	421.7	364.6	312.5	270.5	236.9	211.7	196.6	189.8	188.2
27.5°	533.4	448.6	378.9	318.4	270.5	232.7	205.8	189.8	181.4	181.4
30°	587.2	480.5	394.0	325.1	269.6	228.5	199.9	183.1	175.6	174.7
32.5°	656.1	523.3	412.5	331.0	269.6	225.1	194.9	177.2	168.8	168.0
35°	751.0	573.7	439.3	341.9	271.3	224.3	192.4	173.0	163.8	163.0
37.5°	866.9	645.1	476.3	362.9	279.7	226.8	192.4	171.4	162.1	161.3
40°	1004.7	733.3	525.0	388.9	295.7	234.4	196.6	173.9	163.0	162.1
42.5°	1163.4	830.8	593.1	429.3	319.2	244.4	199.1	173.9	163.0	161.3
45°	1323.9	951.7	672.9	470.4	337.7	252.8	198.2	172.2	161.3	159.6
47.5°	1486.0	1079.4	756.9	518.3	357.9	260.4	199.9	170.5	157.9	156.2
50°	1648.1	1201.2	840.9	571.2	383.9	265.4	202.4	166.3	154.6	152.0
52.5°	1796.8	1331.4	921.5	623.3	412.5	278.0	203.3	162.1	150.4	148.7
55°	1922.0	1438.1	998.0	680.4	444.4	291.5	202.4	160.4	145.3	143.6
57.5°	2041.3	1523.8	1064.3	720.7	467.1	299.0	204.1	157.1	139.4	137.8
60°	2153.0	1589.3	1114.7	751.8	483.9	305.8	203.3	152.0	131.9	131.9
62.5°	2226.1	1633.9	1144.1	766.9	493.9	307.4	200.8	146.2	124.3	121.8
65°	2244.6	1656.5	1155.0	770.3	492.3	302.4	191.5	140.3	114.2	110.9
67.5°	2196.7	1636.4	1139.9	755.2	478.0	289.0	178.1	130.2	100.8	100.0
70°	2089.1	1565.8	1096.2	720.7	451.9	271.3	162.1	117.6	90.7	87.4
72.5°	1919.5	1441.5	1015.6	667.8	413.3	248.6	147.8	104.2	83.2	79.8
75°	1685.9	1276.0	898.0	593.1	365.4	219.2	132.7	89.9	76.4	73.9
77.5°	1404.5	1061.0	751.8	502.3	310.0	188.2	115.1	74.8	68.9	68.9
80°	1067.7	835.8	589.7	393.1	244.4	149.5	94.9	62.2	59.6	60.5
82.5°	730.0	571.2	409.9	275.5	176.4	112.6	72.2	50.4	49.6	49.6
85°	396.5	323.4	232.7	163.8	105.0	73.1	49.6	38.6	38.6	38.6
87.5°	122.6	99.1	68.9	52.1	42.8	34.4	29.4	26.0	27.7	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)