

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: P553654

Luminaire Tested: **ARB-B2-LED-D1-T2**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34669)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ARB-B2-LED-D1-T2
Description: ARBOR OUTDOOR ARCHITECTURAL POST TOP
70 CRI, 4000K LEDS AND TYPE II OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Circular (Dia: 1.62' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

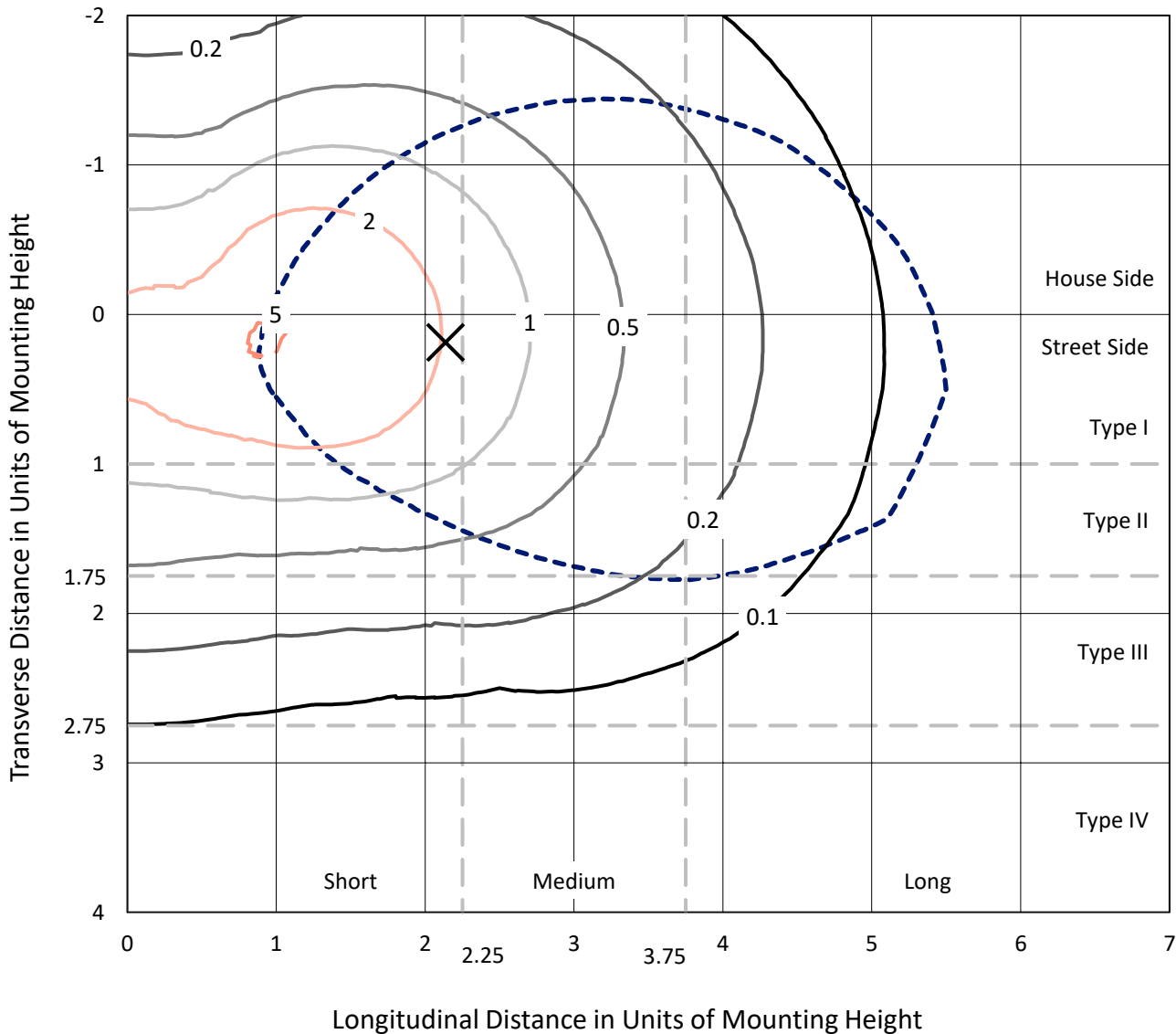
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

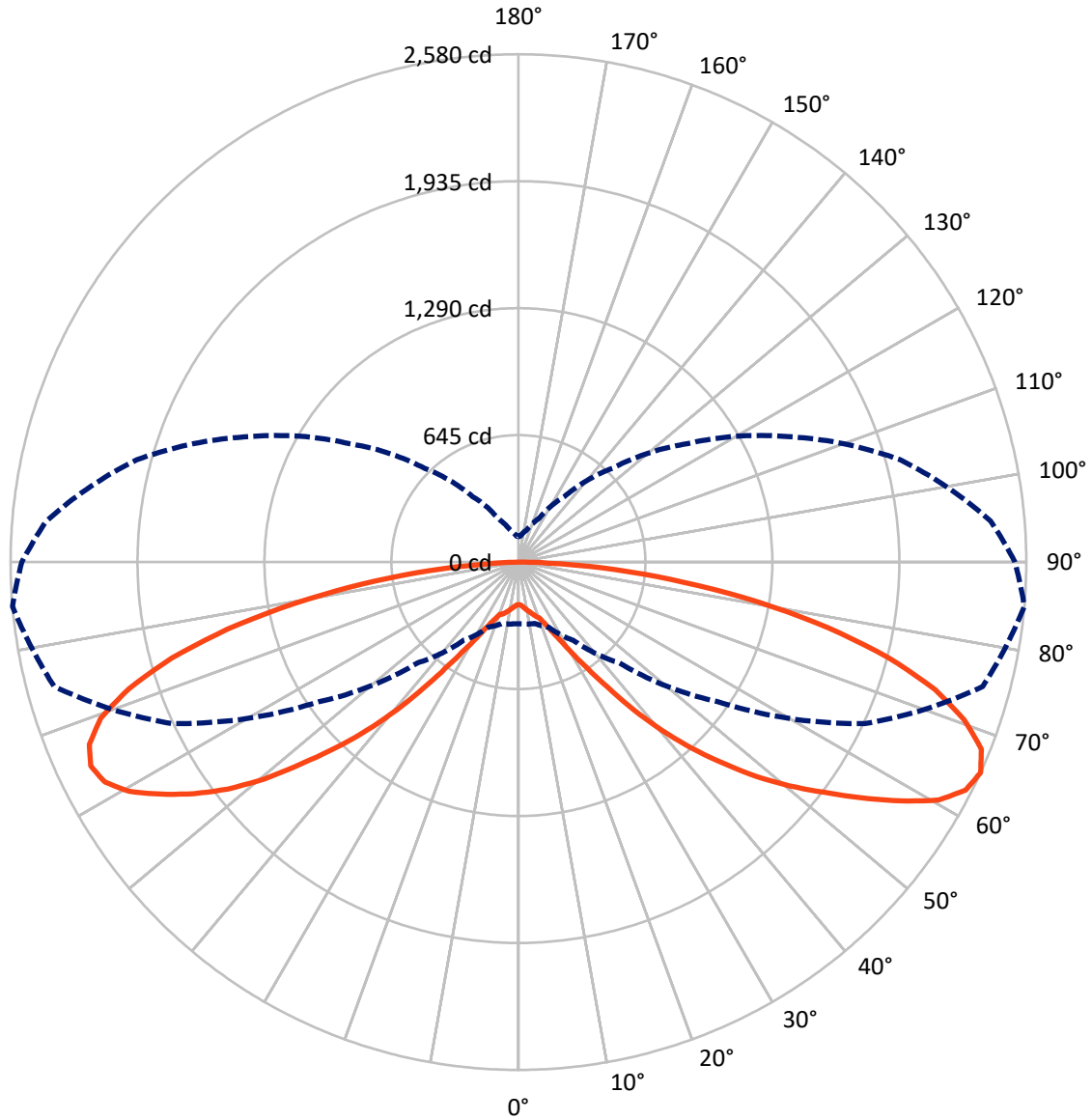
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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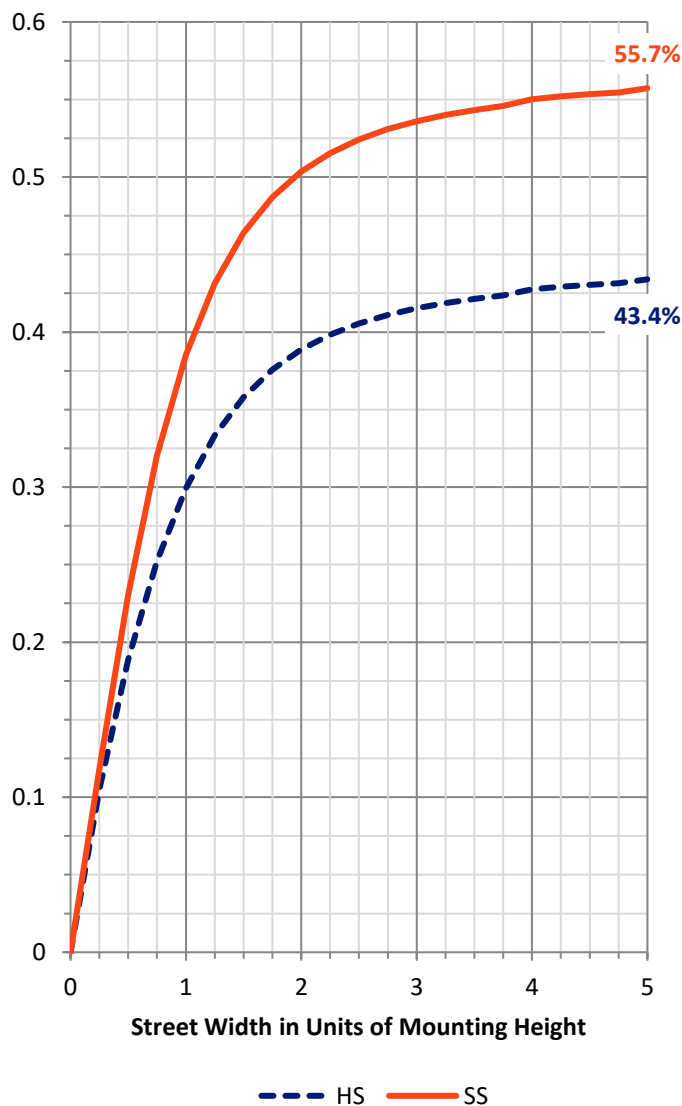
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.6	0.0	1753.6
	% Fixture	43.9	0.0	43.9
Street Side	Lumens	2240.4	0.0	2240.4
	% Fixture	56.1	0.0	56.1
Total	Lumens	3994.0	0.0	3994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	0.5
10°-20°	71.9	1.8
20°-30°	145.6	3.6
30°-40°	291.2	7.3
40°-50°	540.7	13.5
50°-60°	845.8	21.2
60°-70°	1030.2	25.8
70°-80°	808.2	20.2
80°-90°	238.5	6.0
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°	3994.0	100.0
0°-180°	3994.0	100.0

Coefficient of Utilization



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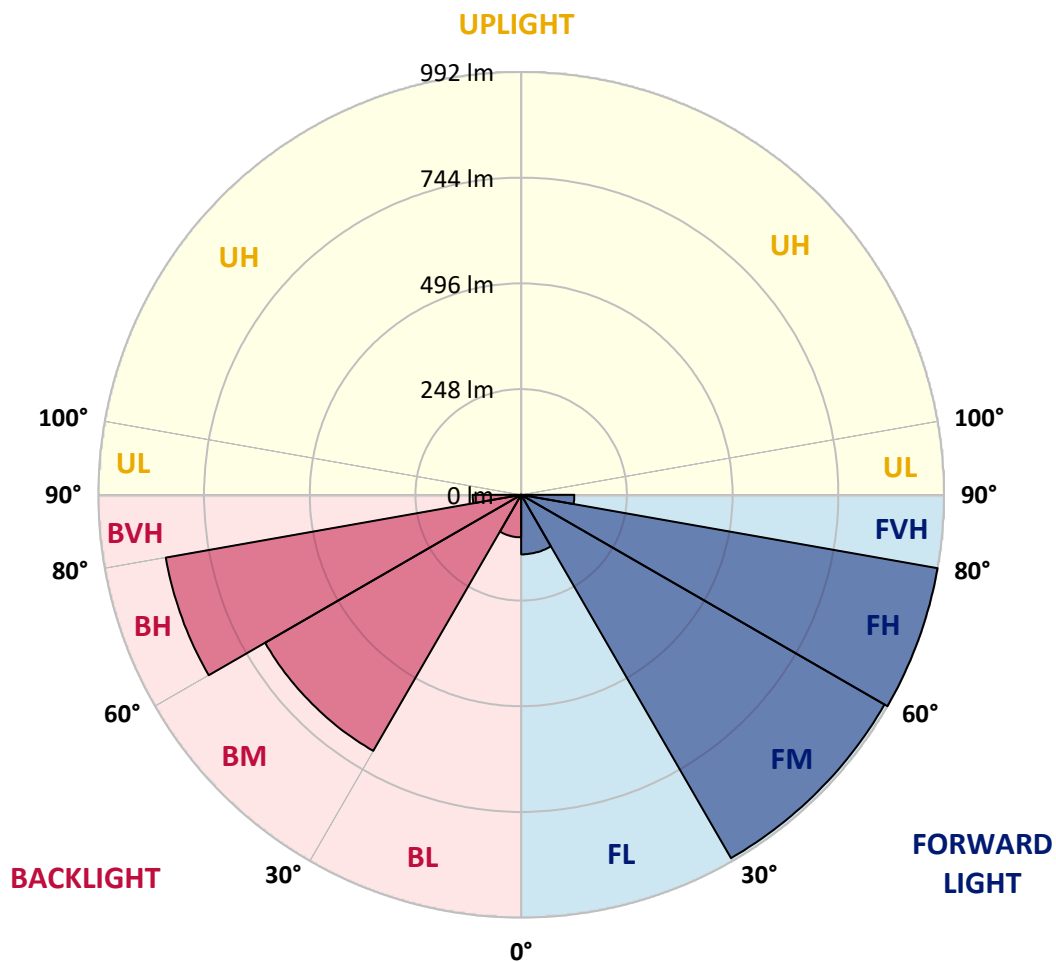
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.7	3.5			
FM (30°-60°)	984.1	24.6			
FH (60°-80°)	991.9	24.8			G1/1800
FVH (80°-90°)	124.7	3.1			G2/225
BL (0°-30°)	99.7	2.5	B0/110		
BM (30°-60°)	693.5	17.4	B1/1000		
BH (60°-80°)	846.5	21.2	B2/1000		G2/1000
BVH (80°-90°)	113.8	2.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9
2.5°	226.3	226.3	225.2	225.2	224.7	223.0	221.4	220.3	219.2	218.7	218.1
5°	236.2	235.6	236.2	235.6	235.1	234.0	232.3	230.7	228.5	226.9	225.8
7.5°	243.8	243.8	244.4	244.9	244.9	244.9	243.3	241.6	239.5	237.8	235.6
10°	247.1	247.7	249.3	251.5	253.7	256.4	255.9	254.2	252.0	248.7	246.6
12.5°	246.6	246.6	249.8	255.3	261.9	267.3	270.6	269.5	265.1	261.3	258.6
15°	249.8	250.9	254.2	261.9	272.3	281.0	286.5	288.1	282.1	275.0	271.7
17.5°	278.3	278.8	276.1	279.4	290.8	304.5	310.5	312.7	303.4	289.7	283.2
20°	294.1	294.7	297.4	302.3	311.6	331.8	345.0	343.9	328.0	302.9	293.6
22.5°	295.2	296.3	302.3	317.1	335.7	361.9	387.6	389.8	371.2	335.1	320.9
25°	295.2	296.3	303.4	322.5	355.9	393.1	437.4	447.2	426.4	383.8	360.8
27.5°	295.2	297.4	308.9	332.4	375.0	435.7	488.7	511.7	492.6	445.6	417.1
30°	296.9	299.0	316.0	349.3	401.3	478.9	556.0	596.4	582.2	532.5	494.8
32.5°	315.4	316.0	331.8	367.9	434.6	523.2	632.0	689.4	687.7	644.0	589.9
35°	332.4	334.6	349.9	392.0	462.0	568.0	709.1	795.4	827.1	779.0	718.9
37.5°	335.1	337.9	360.8	412.2	488.7	615.6	792.2	912.4	985.1	953.4	886.7
40°	337.3	341.1	365.7	420.4	509.5	650.0	867.6	1045.8	1138.8	1124.0	1061.7
42.5°	338.9	343.9	367.9	421.5	516.6	673.5	929.9	1163.9	1289.1	1292.9	1234.4
45°	330.2	335.7	363.5	419.9	515.5	691.6	984.0	1277.1	1430.7	1458.0	1419.2
47.5°	332.9	337.9	361.4	419.3	521.5	712.9	1033.8	1377.1	1566.8	1626.9	1583.2
50°	356.4	358.1	371.7	429.7	545.6	739.7	1082.4	1476.1	1695.8	1788.2	1760.3
52.5°	371.2	367.9	375.6	436.8	564.7	769.7	1139.8	1577.2	1839.6	1942.9	1945.7
55°	394.7	393.6	391.4	444.5	576.8	799.8	1204.9	1691.5	2004.7	2113.0	2112.4
57.5°	387.1	389.2	392.0	440.6	579.5	814.0	1266.1	1804.6	2168.7	2290.6	2264.9
60°	363.0	366.3	374.5	423.7	563.1	802.0	1288.5	1901.4	2305.9	2454.6	2404.9
62.5°	341.7	343.9	351.0	398.0	530.8	770.3	1276.0	1947.3	2402.7	2550.3	2498.4
65°	313.3	315.4	323.1	365.2	484.9	722.7	1235.5	1941.3	2442.1	2580.4	2523.0
67.5°	279.4	282.1	291.9	333.5	439.5	671.9	1181.9	1883.9	2401.6	2537.2	2484.7
70°	248.2	250.4	258.0	295.2	392.0	613.4	1112.0	1786.0	2273.1	2403.2	2363.3
72.5°	217.0	218.1	224.1	259.1	342.8	547.2	1015.7	1631.3	2085.1	2214.1	2180.2
75°	185.9	184.2	190.2	218.1	285.4	471.8	900.4	1435.6	1825.9	1942.4	1906.3
77.5°	152.0	151.4	156.9	176.6	229.6	393.6	759.4	1192.9	1517.1	1609.5	1592.5
80°	118.1	118.6	119.7	135.0	174.9	308.9	594.3	923.4	1185.2	1242.1	1207.1
82.5°	85.8	85.3	85.8	95.1	127.4	223.6	428.1	666.4	831.0	847.4	839.7
85°	51.9	51.9	51.4	55.2	77.6	126.8	237.8	373.9	459.8	497.5	469.6
87.5°	17.5	18.0	18.6	22.4	26.8	34.4	58.5	101.1	122.5	148.2	129.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9	215.9
2.5°	217.6	217.0	216.5	215.9	215.9	215.9	215.4	215.4	214.8	214.8
5°	225.2	222.5	219.8	217.6	215.9	213.8	212.7	211.0	210.5	210.5
7.5°	233.4	229.1	224.7	219.8	215.9	213.2	211.0	208.8	207.7	207.7
10°	243.3	237.3	230.2	224.7	219.2	213.8	209.4	206.1	203.9	203.9
12.5°	254.8	246.6	237.3	230.2	222.0	214.8	208.3	203.4	201.2	200.6
15°	265.7	253.7	242.7	233.4	223.6	214.8	207.7	202.8	199.5	199.5
17.5°	276.1	259.7	245.5	232.9	223.6	214.8	206.6	201.2	197.9	197.4
20°	281.5	259.1	240.5	226.3	220.3	212.7	202.8	196.8	194.1	193.5
22.5°	307.2	277.7	252.0	234.0	224.1	213.8	201.7	195.2	193.0	192.4
25°	341.7	302.3	269.0	245.5	229.6	215.4	201.7	193.5	190.2	189.7
27.5°	388.7	335.1	289.7	258.0	234.0	217.0	201.2	191.3	187.5	187.5
30°	455.4	375.0	314.3	272.8	239.5	218.1	199.5	189.2	185.3	184.8
32.5°	539.0	434.6	346.6	289.7	248.7	219.2	199.5	187.0	182.0	181.5
35°	653.8	507.3	399.6	315.4	260.8	223.6	199.5	185.9	180.4	179.9
37.5°	798.7	627.6	472.3	361.4	279.4	231.8	203.9	189.2	183.1	182.6
40°	973.1	761.5	557.6	414.4	314.3	246.6	214.3	197.4	190.2	189.7
42.5°	1149.7	902.0	650.0	480.5	358.6	266.8	221.4	200.6	193.0	191.9
45°	1320.3	1051.8	764.3	557.1	399.1	285.9	222.5	201.2	193.5	192.4
47.5°	1497.9	1220.8	896.6	635.8	441.7	301.8	225.8	200.1	192.4	191.3
50°	1695.3	1400.1	1014.7	705.8	487.6	319.8	230.7	197.9	191.3	190.2
52.5°	1872.4	1564.6	1136.6	786.1	536.3	345.0	235.1	193.0	187.5	187.5
55°	2026.0	1710.0	1245.4	862.7	581.1	369.6	237.3	190.8	181.0	181.0
57.5°	2164.9	1823.2	1345.4	925.5	621.0	387.1	247.1	185.9	172.2	173.3
60°	2295.6	1909.0	1426.9	984.6	650.0	402.4	252.0	178.8	160.7	161.8
62.5°	2379.7	1976.3	1483.2	1028.3	668.6	410.0	251.5	174.9	149.2	149.2
65°	2407.1	2008.0	1507.8	1048.6	673.5	407.3	243.3	170.6	135.0	129.0
67.5°	2368.3	1990.5	1497.9	1042.5	660.4	394.2	231.8	163.5	118.1	114.8
70°	2265.5	1903.6	1445.4	1009.7	628.7	367.9	216.5	146.5	107.2	99.0
72.5°	2080.2	1761.4	1344.3	943.6	582.8	334.6	198.4	127.9	98.4	95.1
75°	1828.1	1539.5	1198.3	841.4	518.8	296.9	174.9	108.8	90.2	91.3
77.5°	1516.0	1284.2	1001.5	716.2	446.1	249.8	148.7	89.7	80.9	85.8
80°	1155.7	995.0	774.1	566.9	361.4	199.0	120.3	72.7	69.4	71.6
82.5°	798.7	689.9	547.8	399.1	260.2	150.9	88.6	57.4	54.1	53.0
85°	453.8	377.8	305.6	230.2	155.3	92.9	60.1	42.1	38.3	38.3
87.5°	123.6	111.5	89.1	67.2	49.7	36.6	29.5	23.0	20.8	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)