

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: STREETWORKS

Report Number: P798743

Luminaire Tested: **ARCH1-30-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

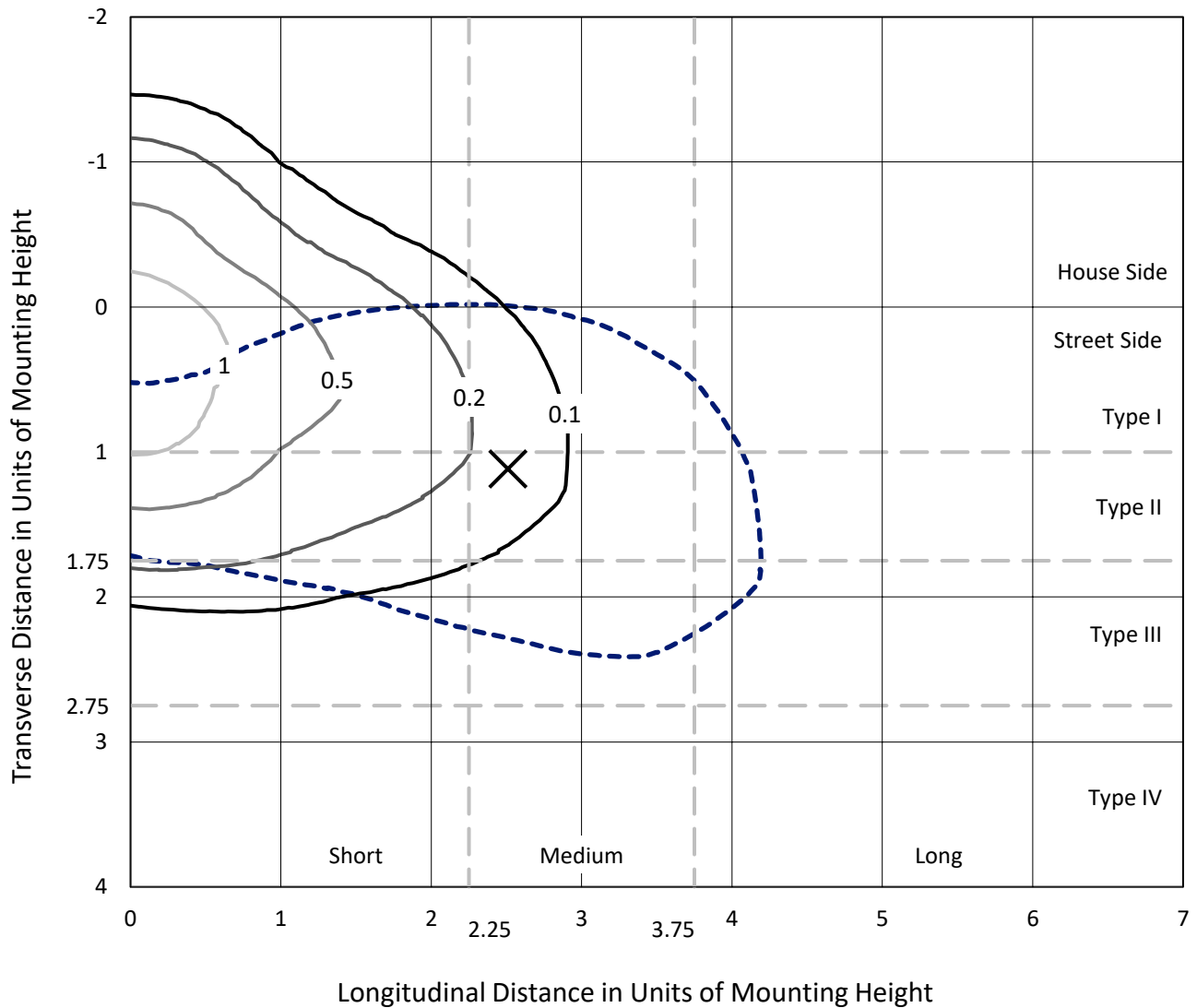
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

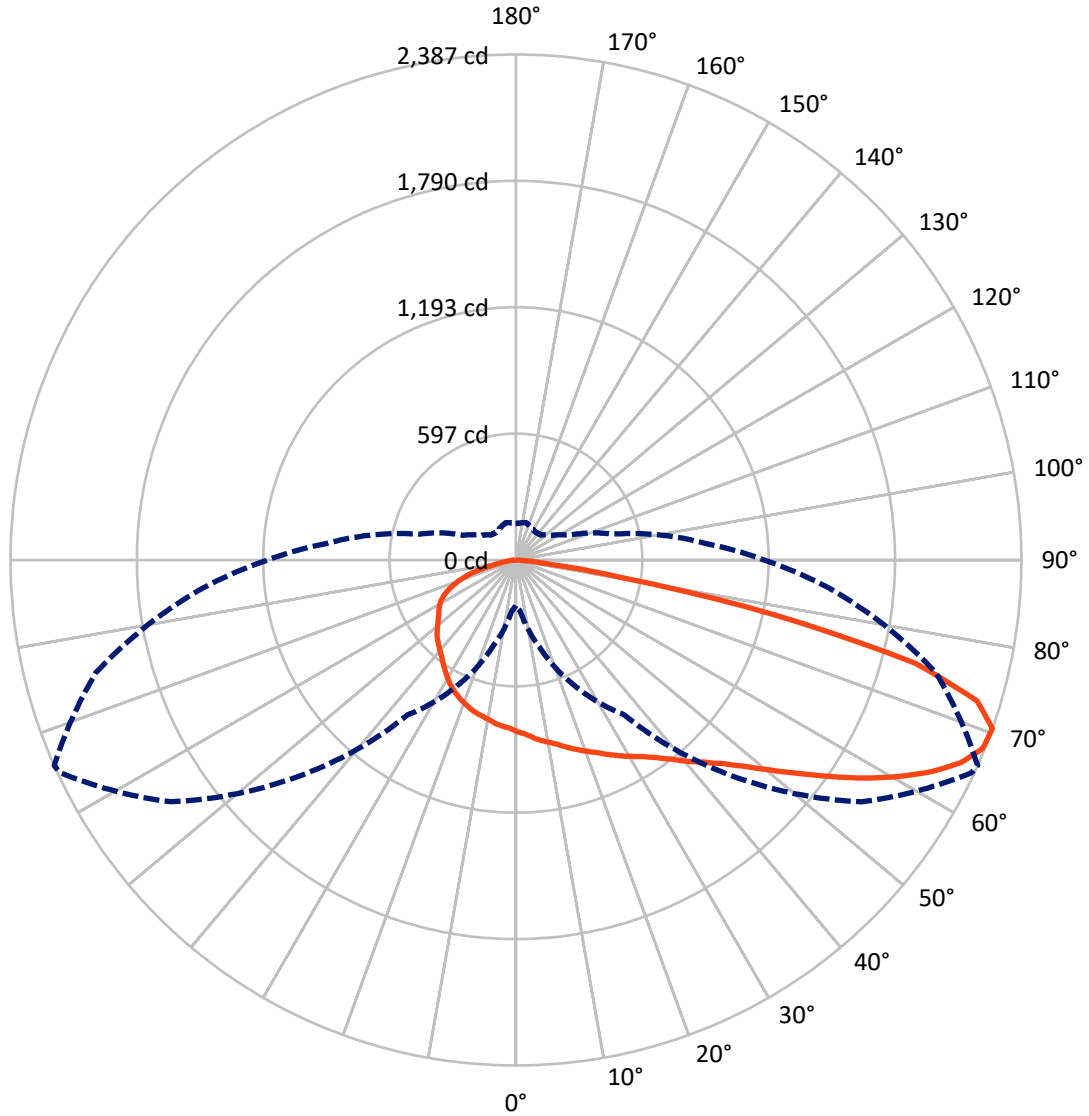
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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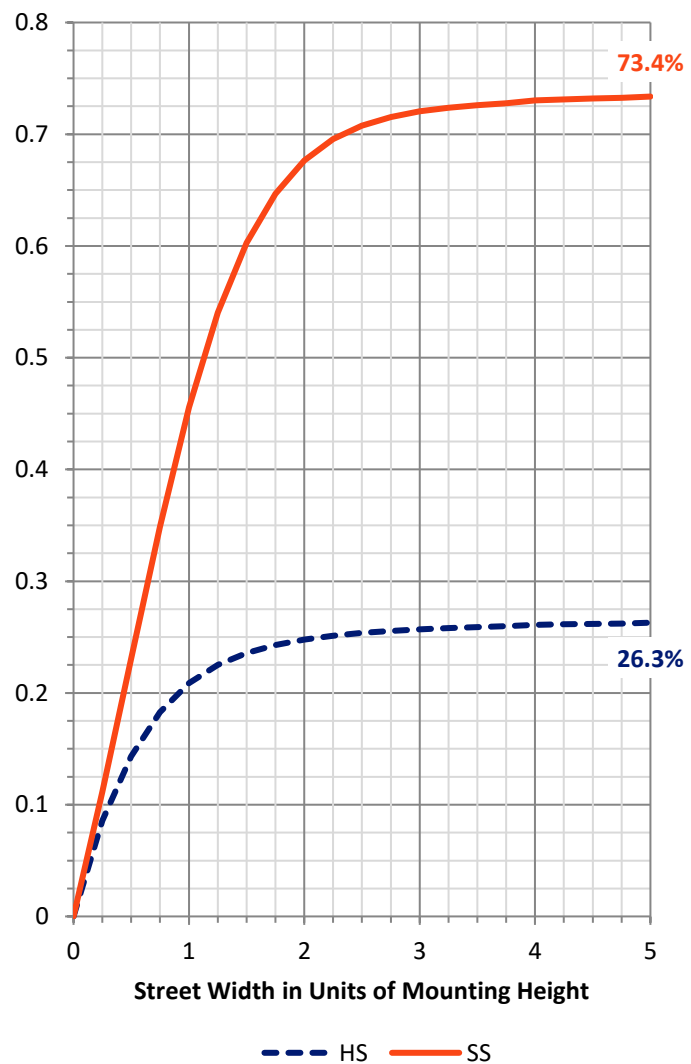
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1191.1	0.0	1191.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	3303.9	0.0	3303.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	4495.0	0.0	4495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	1.7
10°-20°	233.8	5.2
20°-30°	392.0	8.7
30°-40°	586.9	13.1
40°-50°	784.7	17.5
50°-60°	916.2	20.4
60°-70°	911.0	20.3
70°-80°	539.3	12.0
80°-90°	53.2	1.2
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°	4495.0	100.0
0°-180°	4495.0	100.0

Coefficient of Utilization



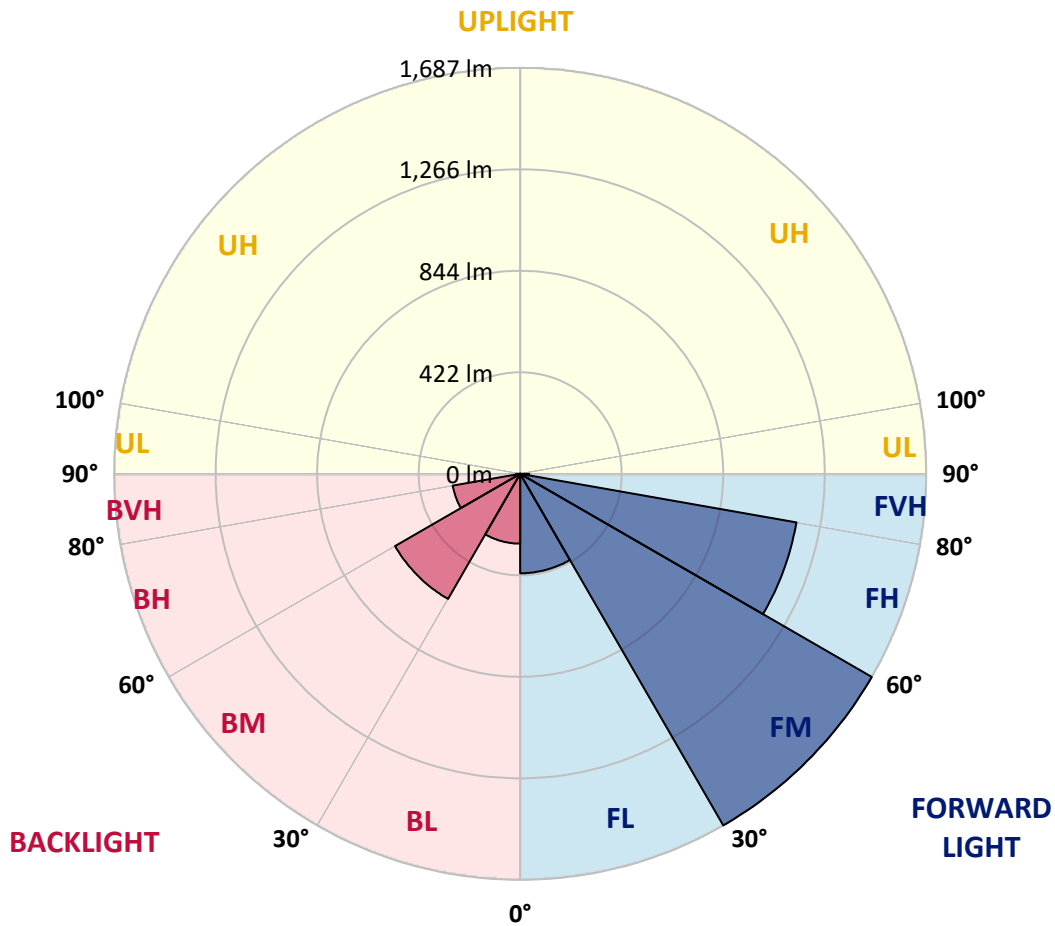
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.4	9.2			
FM (30°-60°)	1687.4	37.5			
FH (60°-80°)	1165.8	25.9			G1/1800
FVH (80°-90°)	37.4	0.8			G1/100
BL (0°-30°)	290.3	6.5	B1/500		
BM (30°-60°)	600.4	13.4	B1/1000		
BH (60°-80°)	284.5	6.3	B1/500		G1/500
BVH (80°-90°)	15.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	841.1	839.7	839.1	836.4	830.5	833.1	827.2	823.2	822.5	813.2	807.9
5°	875.5	874.9	873.5	869.6	860.3	861.6	851.7	844.4	842.4	827.8	816.5
7.5°	904.7	903.4	902.7	897.4	887.5	886.8	874.9	864.3	861.0	841.1	823.8
10°	927.2	925.2	926.6	921.3	910.7	908.7	893.4	879.5	876.2	851.0	827.2
12.5°	946.5	945.1	947.1	942.5	933.9	931.9	916.6	898.7	894.8	865.6	834.4
15°	967.7	963.0	967.0	965.0	959.0	958.4	944.5	924.6	919.3	884.2	845.7
17.5°	978.9	976.3	980.9	981.6	978.9	983.6	970.3	946.5	941.8	901.4	855.7
20°	986.9	982.9	988.2	992.2	994.2	1003.5	992.8	969.7	964.3	918.0	864.9
22.5°	1014.1	1005.4	1006.1	1008.8	1010.1	1023.3	1016.7	994.2	988.9	938.5	876.2
25°	1082.3	1065.1	1053.8	1045.9	1036.6	1047.9	1043.9	1022.0	1017.4	963.0	890.1
27.5°	1188.4	1166.5	1144.0	1120.8	1084.3	1079.7	1073.0	1053.2	1047.9	987.5	904.0
30°	1309.0	1287.1	1260.6	1223.5	1155.2	1119.4	1104.2	1082.3	1076.4	1009.4	917.3
32.5°	1429.0	1409.7	1383.2	1338.2	1240.7	1167.8	1135.3	1112.8	1106.8	1033.3	933.2
35°	1522.4	1510.5	1493.2	1436.9	1325.6	1224.8	1180.4	1153.2	1146.6	1071.1	962.4
37.5°	1598.0	1589.4	1574.8	1515.8	1387.2	1281.8	1232.1	1201.0	1193.7	1112.1	993.5
40°	1709.3	1686.8	1674.9	1589.4	1440.9	1333.5	1290.4	1258.0	1250.0	1155.9	1018.7
42.5°	1804.1	1787.5	1772.9	1655.0	1491.9	1377.9	1345.4	1315.6	1305.0	1199.0	1045.9
45°	1820.0	1826.6	1819.3	1687.4	1572.8	1421.7	1401.1	1381.9	1372.0	1257.3	1087.0
47.5°	1820.7	1820.7	1777.6	1706.0	1672.9	1470.7	1460.8	1467.4	1456.8	1331.5	1136.0
50°	1772.9	1781.6	1759.0	1710.6	1699.4	1519.8	1533.7	1569.5	1558.9	1410.4	1189.0
52.5°	1674.2	1702.7	1702.0	1703.3	1660.9	1561.5	1610.6	1692.1	1674.2	1499.2	1245.4
55°	1499.9	1556.9	1607.9	1651.7	1627.8	1586.7	1704.7	1822.7	1804.1	1598.6	1302.4
57.5°	1350.7	1387.2	1450.8	1574.8	1588.7	1608.6	1792.8	1959.2	1942.6	1708.7	1362.0
60°	1180.4	1230.8	1294.4	1470.7	1541.0	1637.1	1889.6	2092.4	2076.5	1820.0	1419.7
62.5°	918.6	983.6	1110.8	1311.0	1471.4	1655.0	1965.8	2209.7	2202.4	1925.4	1471.4
65°	640.2	697.9	876.2	1114.8	1360.7	1647.0	2026.8	2314.4	2307.8	2011.5	1507.8
67.5°	373.8	440.8	642.2	897.4	1165.2	1592.0	2046.7	2376.1	2376.1	2063.9	1517.8
70°	213.4	244.6	423.5	654.2	893.4	1440.2	1991.0	2375.4	2386.7	2052.0	1476.7
72.5°	149.1	163.0	285.0	440.1	605.8	1165.2	1845.2	2260.7	2276.0	1939.3	1336.2
75°	116.0	125.9	200.8	300.2	381.8	791.4	1526.4	1906.2	1946.6	1653.0	1080.3
77.5°	88.2	95.4	117.3	187.6	244.6	454.7	1007.4	1250.0	1252.7	1012.1	579.3
80°	64.3	71.6	78.2	114.7	129.9	212.8	380.4	522.3	507.7	489.8	313.5
82.5°	38.4	45.7	47.7	62.3	63.6	90.8	133.2	168.3	161.7	215.4	147.1
85°	16.6	23.2	24.5	28.5	27.2	37.1	53.0	44.4	39.8	45.7	31.8
87.5°	4.0	6.6	6.6	7.3	6.0	9.3	9.9	7.3	6.6	8.0	8.0
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°	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2	811.2
2.5°	806.6	804.6	805.3	794.0	790.7	787.4	785.4	784.1	782.7	784.7	786.7
5°	812.6	807.9	802.6	786.1	779.4	772.1	766.8	762.2	760.2	760.2	762.2
7.5°	817.2	809.3	798.0	776.1	764.2	754.2	745.6	739.7	736.4	736.4	738.3
10°	817.9	806.6	788.7	762.2	746.3	731.7	721.8	715.1	710.5	710.5	711.8
12.5°	821.8	806.6	783.4	751.6	731.7	713.8	701.9	691.9	690.0	690.0	691.3
15°	828.5	809.9	780.1	742.3	718.5	697.9	684.7	674.0	670.1	672.7	673.4
17.5°	834.4	811.9	774.1	730.4	701.9	679.4	664.8	655.5	650.2	656.2	656.2
20°	838.4	811.9	765.5	715.1	684.0	658.8	644.9	633.6	629.6	636.9	637.6
22.5°	844.4	811.2	756.2	699.9	664.8	638.3	624.3	615.7	613.7	621.7	624.3
25°	851.0	812.6	746.3	682.7	643.6	617.7	607.1	603.1	604.5	614.4	617.7
27.5°	858.3	815.2	736.4	663.4	620.4	597.2	591.2	593.2	598.5	611.1	615.1
30°	864.9	815.9	722.4	640.9	593.9	572.0	574.6	583.2	591.2	603.8	608.4
32.5°	873.5	816.5	707.9	616.4	565.4	549.4	561.4	575.3	583.2	595.2	600.5
35°	894.8	827.8	696.6	592.5	538.8	530.2	550.1	568.0	572.6	583.2	587.9
37.5°	919.3	846.4	690.6	568.0	513.0	511.0	536.2	554.1	555.4	562.0	566.7
40°	934.5	854.3	684.0	547.5	489.8	491.1	517.0	530.9	528.2	532.9	536.2
42.5°	949.8	857.0	670.1	530.2	467.9	469.2	489.1	499.1	500.4	510.3	515.0
45°	975.6	864.3	654.8	514.3	448.0	443.4	455.3	468.6	485.8	505.0	510.3
47.5°	1010.1	879.5	638.9	495.1	428.8	413.6	418.2	441.4	459.3	477.2	480.5
50°	1045.2	894.8	624.3	471.9	409.6	381.8	383.8	405.0	419.5	433.5	435.4
52.5°	1079.7	908.0	611.7	450.0	387.7	344.0	351.9	373.8	383.8	390.4	392.4
55°	1114.1	919.3	600.5	431.5	362.5	314.2	321.4	342.0	351.9	355.3	356.6
57.5°	1149.9	932.5	591.9	415.6	334.0	287.6	292.3	306.9	316.1	320.1	318.8
60°	1179.8	943.8	587.2	399.0	305.5	263.1	261.8	275.1	288.3	292.3	291.0
62.5°	1202.9	951.1	579.9	377.8	280.4	238.6	232.0	249.2	263.1	265.8	267.8
65°	1215.5	951.8	562.0	350.6	254.5	212.1	207.5	224.7	233.3	236.0	236.0
67.5°	1213.6	941.2	526.9	314.2	230.6	188.2	184.3	194.9	207.5	209.4	207.5
70°	1172.5	897.4	470.6	275.7	202.1	167.0	159.7	170.3	182.3	175.0	171.7
72.5°	1055.8	784.1	387.7	233.3	170.3	140.5	137.2	147.8	148.5	149.8	146.5
75°	833.1	583.9	290.3	181.6	137.9	118.0	117.3	115.3	118.0	123.3	119.3
77.5°	437.4	291.6	157.1	111.3	100.1	94.8	90.1	89.5	97.4	100.7	96.8
80°	237.3	163.7	90.1	66.9	61.0	61.6	67.6	66.3	74.9	76.9	73.6
82.5°	103.4	77.5	44.4	40.4	40.4	39.8	41.8	46.4	55.7	55.7	44.4
85°	22.5	19.2	17.2	19.9	22.5	22.5	22.5	22.5	15.9	8.6	6.0
87.5°	7.3	7.3	7.3	8.0	8.6	8.6	7.3	5.3	3.3	0.7	0.0
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)