

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: P1209957

Luminaire Tested: **ARCH1-30-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4866 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
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



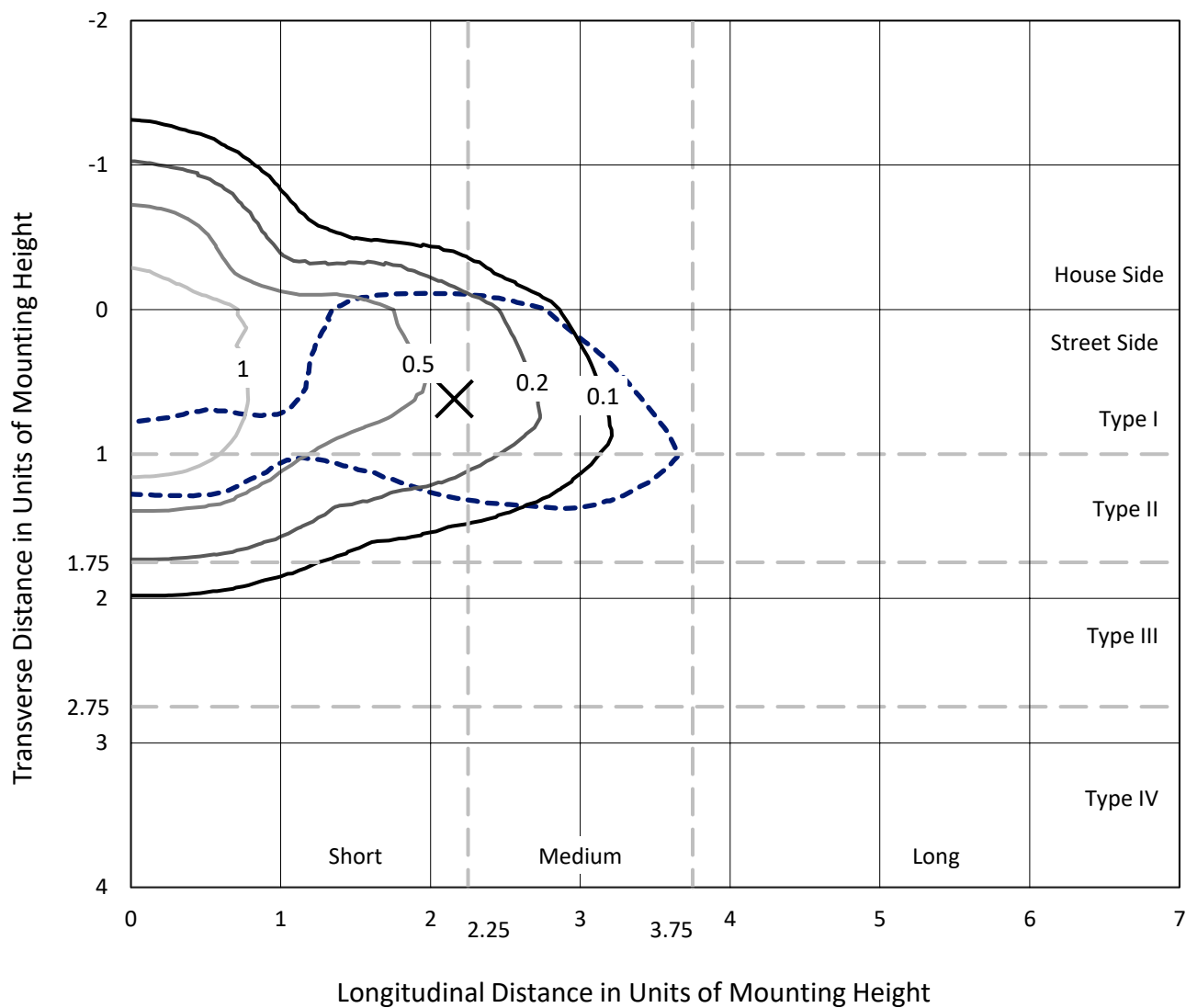
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

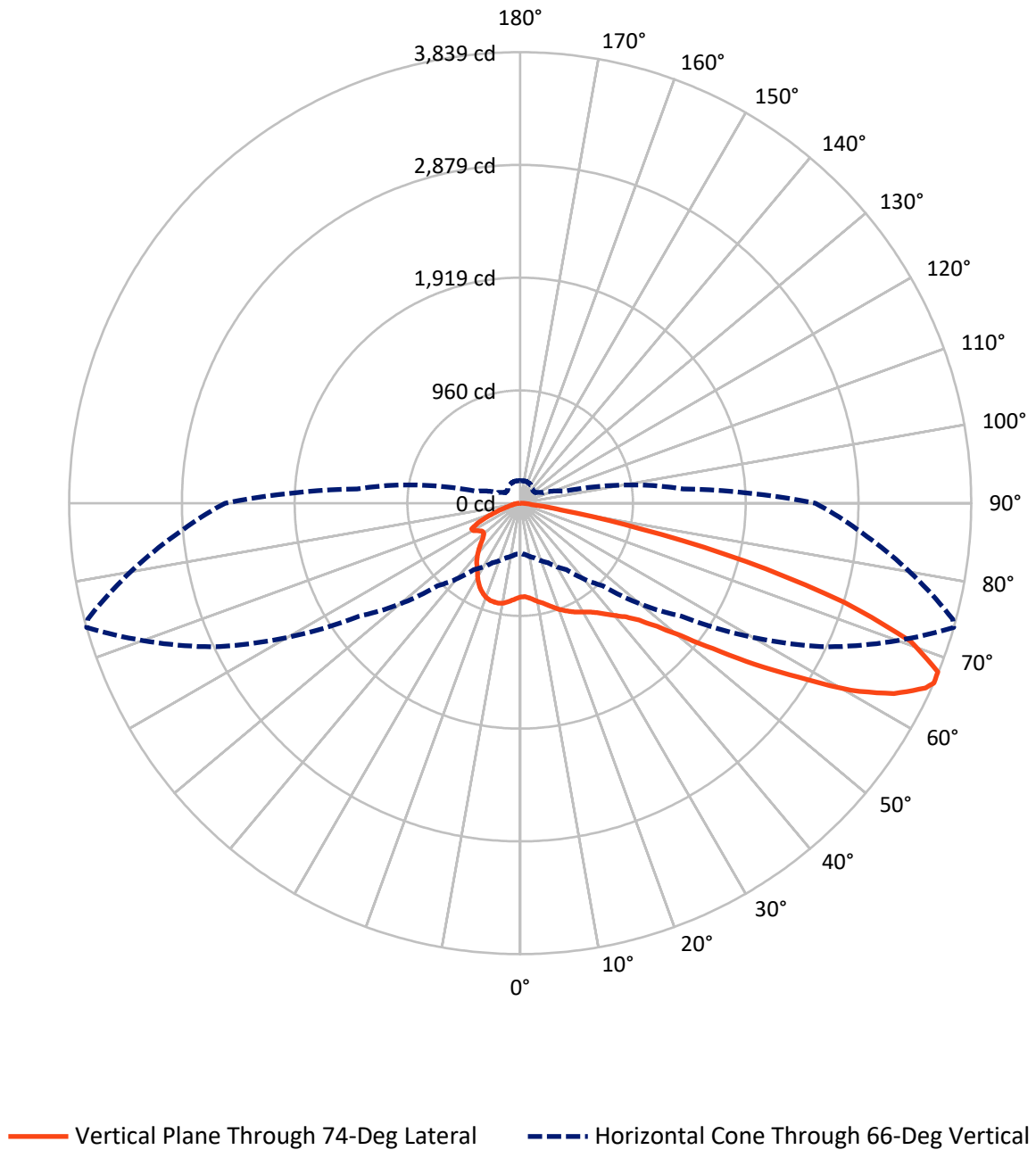


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.0	0.0	1185.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	3681.0	0.0	3681.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	4866.0	0.0	4866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	1.6
10°-20°	234.0	4.8
20°-30°	439.1	9.0
30°-40°	675.5	13.9
40°-50°	908.5	18.7
50°-60°	1074.5	22.1
60°-70°	993.9	20.4
70°-80°	418.1	8.6
80°-90°	46.3	1.0
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°	4866.0	100.0
0°-180°	4866.0	100.0

Coefficient of Utilization



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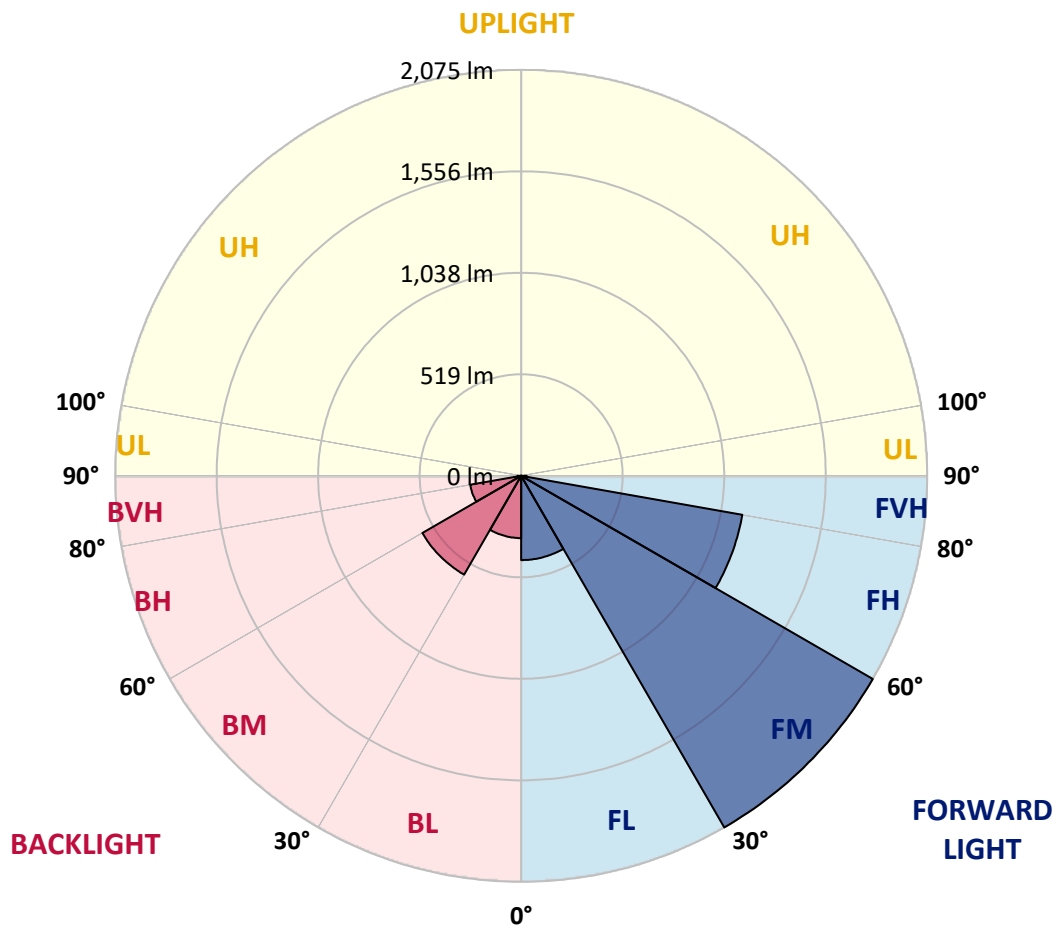
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.7	8.9			
FM	(30°-60°)	2075.1	42.6			
FH	(60°-80°)	1147.5	23.6			G1/1800
FVH	(80°-90°)	27.7	0.6			G1/100
BL	(0°-30°)	318.5	6.5	B1/500		
BM	(30°-60°)	583.4	12.0	B1/1000		
BH	(60°-80°)	264.5	5.4	B1/500		G1/500
BVH	(80°-90°)	18.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	795.2	793.9	796.4	800.2	802.1	799.0	797.7	797.1	797.1	795.2	798.3
5°	757.6	757.0	762.6	769.5	782.7	792.1	804.6	812.1	809.6	805.8	808.3
7.5°	708.8	707.5	714.4	727.6	745.7	766.4	797.1	820.9	830.3	829.0	828.4
10°	727.6	726.3	725.7	721.9	728.2	748.2	780.2	822.1	854.1	854.7	855.3
12.5°	792.7	795.8	792.7	780.8	767.0	759.5	778.3	825.2	874.1	877.8	893.5
15°	881.6	878.5	872.2	858.4	837.1	814.6	800.8	839.7	902.9	906.0	940.5
17.5°	959.9	962.4	958.6	945.5	920.4	891.0	849.0	864.7	933.6	942.3	990.5
20°	1045.0	1055.0	1050.0	1033.8	1013.1	969.3	916.7	901.0	967.4	973.6	1042.5
22.5°	1143.3	1154.0	1144.6	1128.9	1112.0	1058.2	990.5	945.5	995.6	1008.7	1092.6
25°	1261.0	1271.1	1262.3	1237.9	1216.6	1150.8	1070.1	995.6	1023.1	1037.5	1133.3
27.5°	1354.3	1361.8	1370.0	1355.6	1323.0	1254.8	1152.7	1047.5	1050.7	1065.7	1170.9
30°	1437.6	1456.4	1463.3	1465.2	1437.6	1361.2	1237.2	1101.4	1074.5	1090.1	1208.4
32.5°	1551.6	1579.7	1568.5	1579.7	1563.5	1461.4	1324.9	1157.1	1105.1	1119.5	1244.1
35°	1718.1	1740.7	1711.2	1702.5	1676.2	1562.8	1409.4	1214.7	1145.8	1161.5	1277.9
37.5°	1897.2	1922.9	1880.3	1845.2	1795.1	1663.0	1482.1	1290.5	1202.2	1214.7	1309.3
40°	2053.7	2075.0	2038.1	1991.7	1907.8	1751.3	1544.7	1343.7	1258.5	1274.2	1345.6
42.5°	2198.4	2212.1	2170.8	2126.4	2014.3	1830.8	1612.3	1400.0	1324.3	1339.3	1375.0
45°	2344.9	2355.5	2297.9	2234.7	2103.2	1903.5	1686.8	1478.9	1420.7	1440.7	1422.6
47.5°	2371.2	2374.3	2364.3	2321.7	2173.3	1973.0	1778.9	1584.8	1567.8	1589.8	1504.6
50°	2189.0	2217.2	2279.1	2321.1	2201.5	2031.2	1870.9	1736.3	1770.7	1798.9	1674.9
52.5°	1835.2	1862.1	2005.5	2164.6	2133.9	2044.3	1969.8	1928.5	2056.9	2090.7	1906.6
55°	1462.0	1485.8	1637.3	1866.5	1915.4	1984.2	2075.6	2173.9	2421.9	2444.4	2160.8
57.5°	1204.1	1217.2	1325.5	1545.9	1624.2	1792.0	2132.6	2465.7	2793.2	2827.6	2381.8
60°	987.4	1001.8	1082.6	1264.2	1368.1	1517.1	2087.5	2753.8	3236.5	3236.5	2665.5
62.5°	743.2	755.7	830.9	973.0	1147.7	1284.2	1943.5	2944.7	3570.9	3555.8	2870.8
65°	510.3	520.3	574.8	669.3	826.5	1094.5	1746.9	2947.2	3792.5	3772.5	2958.5
66°	428.3	437.0	483.4	559.8	691.9	993.1	1677.4	2894.0	3838.8	3810.7	2921.6
67.5°	338.1	344.4	375.1	420.1	507.2	804.0	1567.8	2743.1	3834.5	3817.6	2827.6
70°	241.7	246.1	268.6	278.0	299.9	465.2	1245.4	2402.5	3527.0	3532.0	2458.2
72.5°	187.2	194.1	207.9	209.8	204.7	247.3	755.7	2004.3	2885.2	2883.4	1824.6
75°	150.9	154.7	161.5	165.3	164.0	159.7	320.0	1495.2	1986.1	2009.3	1021.9
77.5°	119.0	118.3	124.6	129.6	133.4	125.2	146.5	876.6	1041.3	1011.8	383.8
80°	87.7	87.7	96.4	98.3	103.9	105.2	97.7	338.1	357.5	325.0	99.6
82.5°	57.6	57.6	67.0	68.2	73.9	82.0	70.8	101.4	98.9	93.9	45.1
85°	31.3	30.1	33.2	37.6	40.7	48.2	42.6	50.7	52.0	51.3	30.1
87.5°	6.3	5.6	8.8	10.0	11.3	15.0	13.8	20.7	28.8	28.2	13.1
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°	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7	797.7
2.5°	802.7	802.1	809.0	817.1	826.5	832.1	834.6	839.0	835.9	837.1	840.9
5°	814.6	816.5	826.5	837.1	841.5	838.4	831.5	829.0	823.4	822.1	820.9
7.5°	832.1	835.3	845.3	847.8	834.6	812.7	797.1	788.3	778.9	776.4	775.2
10°	860.9	862.8	865.3	839.7	807.1	777.7	758.3	750.1	743.9	738.8	740.1
12.5°	897.3	896.0	876.6	823.4	777.0	747.0	733.8	728.8	724.4	721.3	720.7
15°	943.0	934.2	878.5	800.8	748.9	723.8	714.4	712.5	707.5	707.5	706.9
17.5°	989.3	966.8	877.2	777.0	721.9	708.2	702.5	701.3	700.0	699.4	701.3
20°	1035.6	995.6	867.2	747.6	703.2	695.0	693.8	694.4	693.1	695.0	693.8
22.5°	1076.3	1014.3	848.4	716.3	690.0	689.4	686.2	687.5	691.9	692.5	694.4
25°	1107.6	1021.2	820.9	687.5	680.6	679.4	683.1	688.1	691.9	692.5	695.6
27.5°	1133.3	1017.5	786.4	665.0	664.3	671.2	682.5	684.4	685.0	685.0	682.5
30°	1152.7	1009.3	742.6	639.9	643.0	659.9	670.6	670.6	665.6	664.3	668.1
32.5°	1157.1	998.7	695.0	614.2	619.2	639.3	652.4	648.1	642.4	642.4	644.9
35°	1160.9	984.3	656.8	579.2	586.7	610.5	623.0	614.2	608.0	606.1	605.5
37.5°	1159.6	978.7	622.4	534.7	544.7	567.9	576.0	567.9	558.5	554.1	559.8
40°	1160.9	974.9	579.2	485.9	495.9	509.7	520.3	514.1	505.3	494.0	499.7
42.5°	1168.4	979.9	531.6	438.3	438.3	445.8	464.0	459.6	438.3	433.9	438.9
45°	1208.4	1006.8	484.0	390.7	383.8	388.8	407.6	388.8	375.7	375.7	380.1
47.5°	1305.5	1056.9	442.1	348.8	332.5	342.5	347.5	330.0	320.0	317.5	321.8
50°	1503.4	1157.1	417.0	314.3	294.3	301.8	298.7	298.0	288.0	289.3	291.8
52.5°	1803.9	1352.5	409.5	297.4	272.4	274.2	271.1	272.4	270.5	276.8	278.6
55°	2131.4	1558.5	418.9	299.9	257.3	244.2	245.4	251.7	259.2	269.2	271.1
57.5°	2376.2	1661.8	443.3	316.8	238.6	218.5	221.7	233.5	248.0	256.1	260.5
60°	2558.4	1649.2	479.0	321.2	216.0	195.4	201.0	218.5	231.0	237.9	242.3
62.5°	2617.9	1571.0	487.8	289.3	186.6	173.4	187.2	205.4	211.0	218.5	221.7
65°	2569.0	1460.2	423.9	234.8	164.0	157.2	177.2	191.0	198.5	202.2	202.9
66°	2511.4	1393.8	389.5	213.5	155.9	152.2	173.4	184.7	192.2	191.6	192.2
67.5°	2385.0	1254.8	333.7	183.5	144.0	144.6	167.2	174.7	177.2	175.3	175.3
70°	1954.8	883.5	239.2	139.0	126.5	135.2	150.3	152.2	157.8	155.3	155.3
72.5°	1205.3	433.9	160.3	106.4	112.7	126.5	125.9	132.1	145.3	149.0	151.5
75°	592.3	175.9	105.8	90.2	100.8	105.8	104.6	120.2	139.0	155.3	160.9
77.5°	224.8	87.7	73.9	78.9	81.4	79.5	83.3	108.9	139.0	168.4	174.1
80°	69.5	60.7	58.2	65.1	61.4	58.2	62.6	90.2	117.7	127.7	127.7
82.5°	42.0	47.6	45.1	44.5	41.3	42.0	45.1	64.5	90.8	95.2	95.2
85°	29.4	31.3	25.7	24.4	23.8	23.2	23.2	37.6	53.8	53.2	55.1
87.5°	11.3	12.5	9.4	9.4	8.8	6.3	5.0	6.3	6.3	4.4	3.1
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)