

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: P1210045

Luminaire Tested: **ARCH1-60-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210045
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: ARCH1-60-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219 lumens
Efficiency: N/A
Efficacy: 120.3 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): 60
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



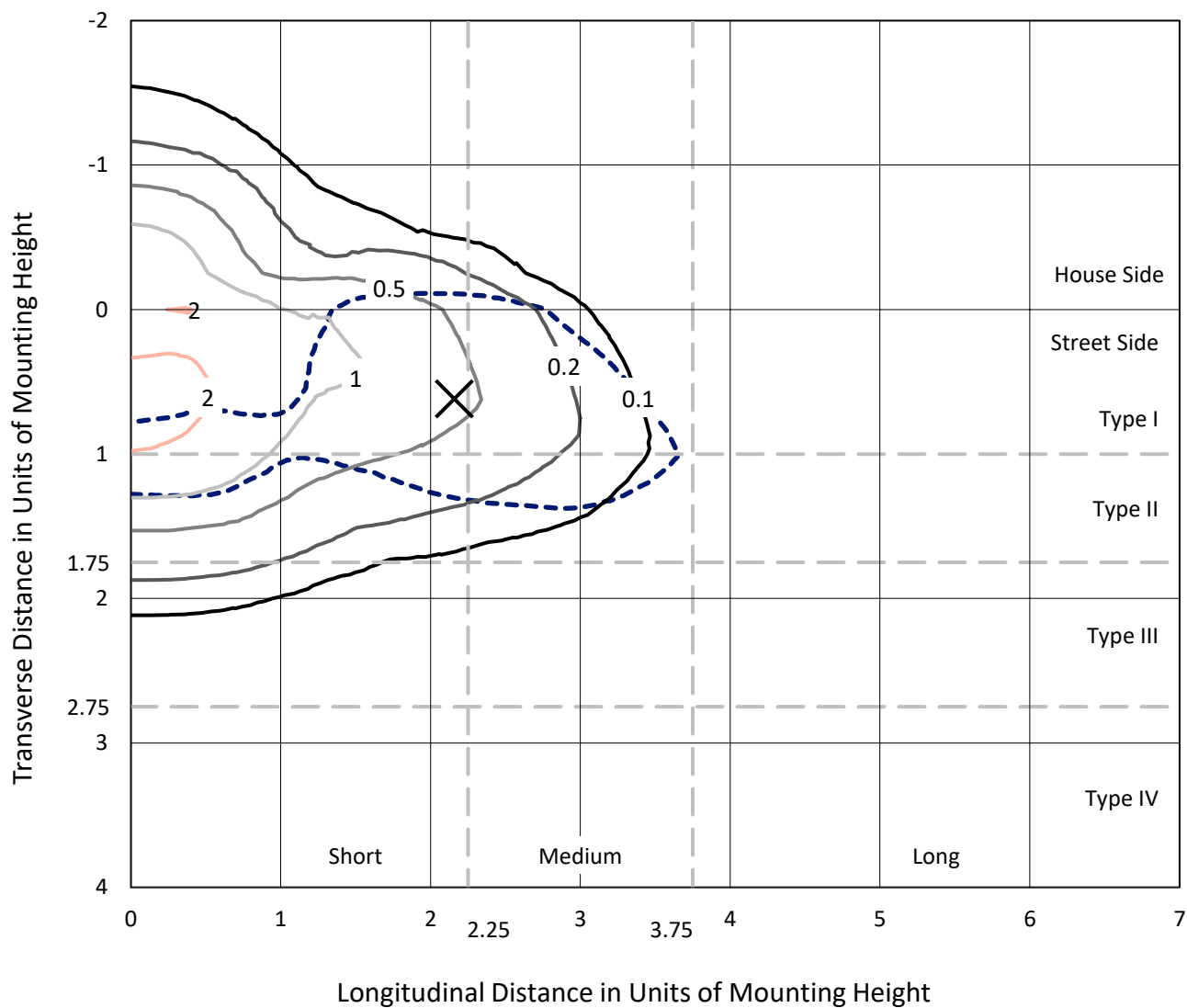
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

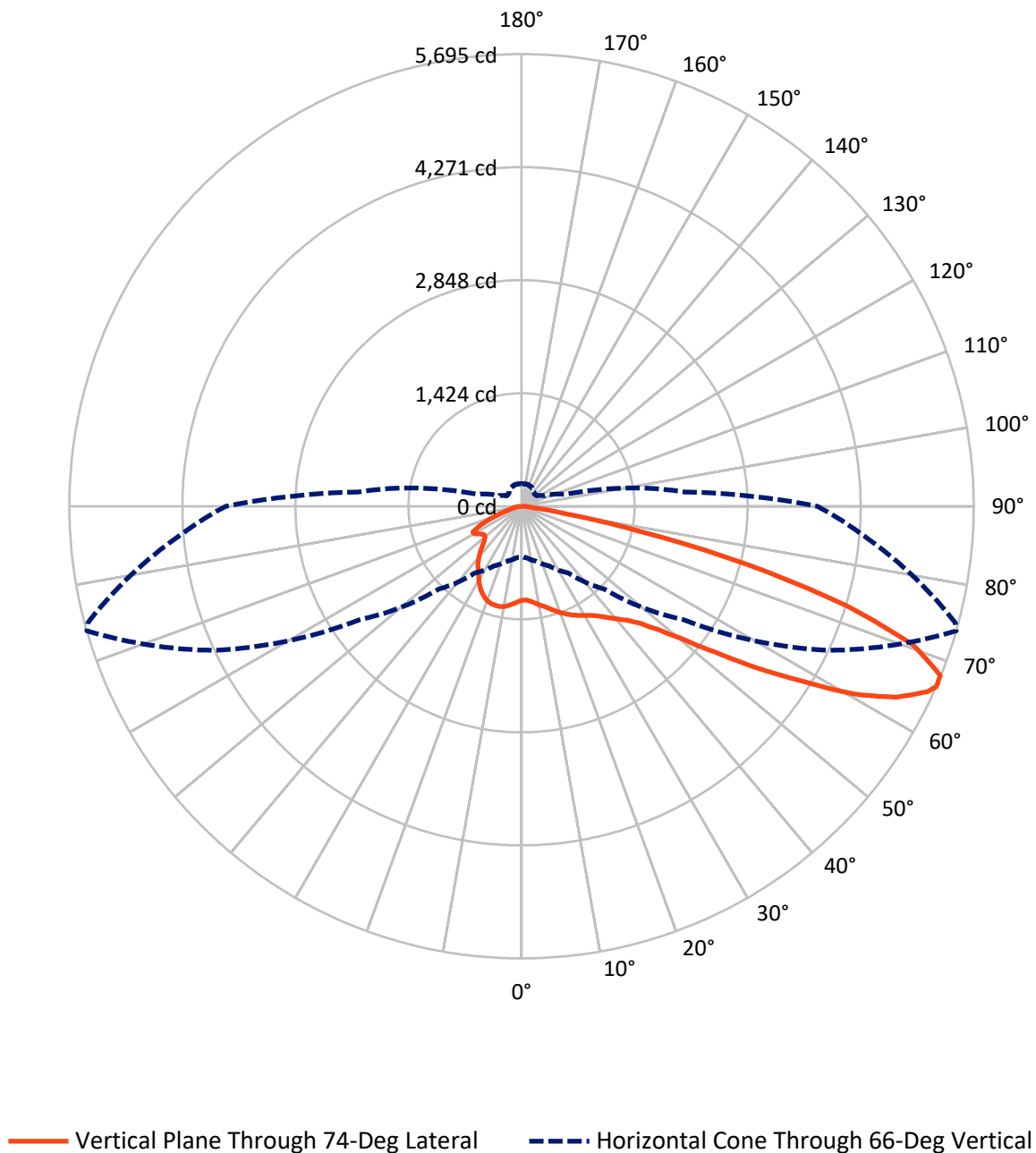
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1758.0	0.0	1758.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5461.0	0.0	5461.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	7219.0	0.0	7219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.6
10°-20°	347.2	4.8
20°-30°	651.4	9.0
30°-40°	1002.1	13.9
40°-50°	1347.9	18.7
50°-60°	1594.0	22.1
60°-70°	1474.6	20.4
70°-80°	620.3	8.6
80°-90°	68.6	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°	7219.0	100.0
0°-180°	7219.0	100.0

Coefficient of Utilization



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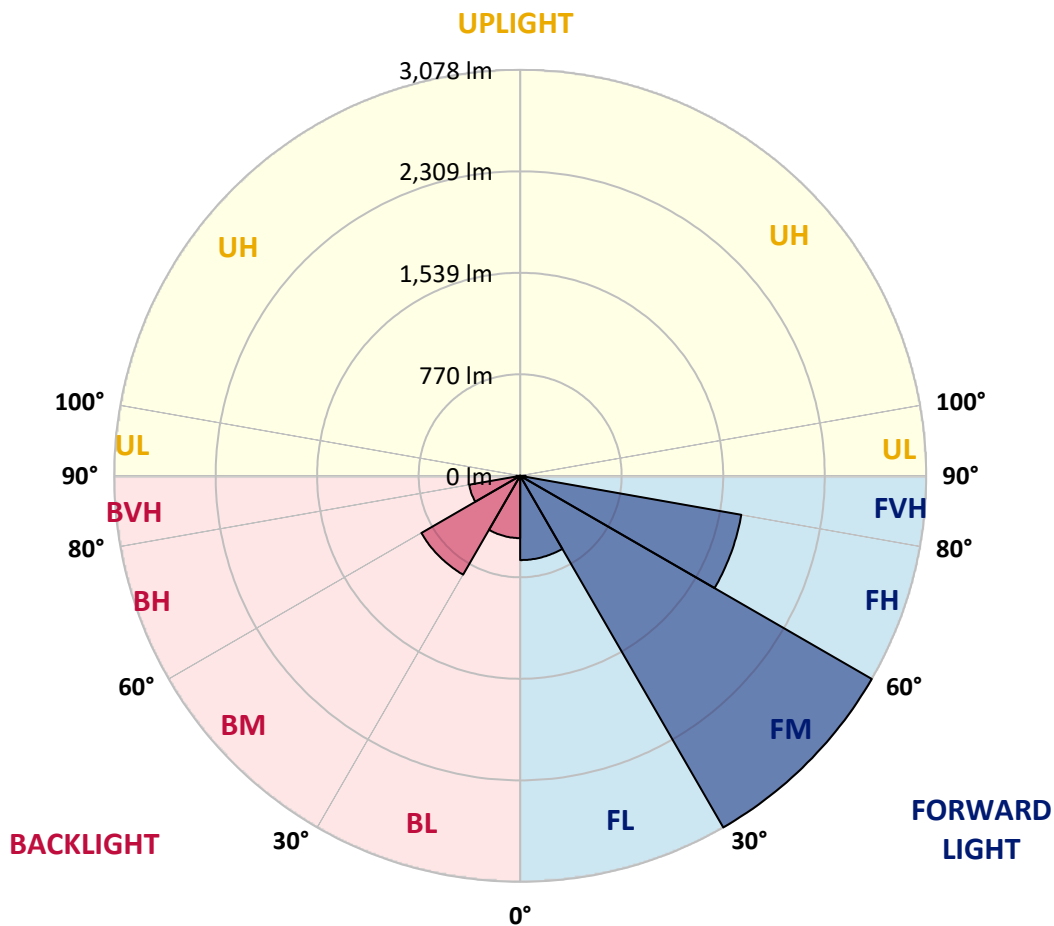
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	639.0	8.9			
FM	(30°-60°)	3078.5	42.6			
FH	(60°-80°)	1702.4	23.6			G1/1800
FVH	(80°-90°)	41.1	0.6			G1/100
BL	(0°-30°)	472.5	6.5	B1/500		
BM	(30°-60°)	865.5	12.0	B1/1000		
BH	(60°-80°)	392.4	5.4	B1/500		G1/500
BVH	(80°-90°)	27.6	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°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1179.7	1177.9	1181.6	1187.1	1189.9	1185.3	1183.4	1182.5	1182.5	1179.7	1184.4
5°	1124.0	1123.1	1131.4	1141.6	1161.1	1175.1	1193.7	1204.8	1201.1	1195.5	1199.2
7.5°	1051.5	1049.7	1059.9	1079.4	1106.3	1137.0	1182.5	1217.8	1231.7	1229.9	1229.0
10°	1079.4	1077.5	1076.6	1071.0	1080.3	1110.1	1157.4	1219.7	1267.0	1268.0	1268.9
12.5°	1176.0	1180.6	1176.0	1158.4	1137.9	1126.8	1154.6	1224.3	1296.8	1302.3	1325.6
15°	1307.9	1303.3	1294.0	1273.5	1242.0	1208.5	1188.1	1245.7	1339.5	1344.1	1395.2
17.5°	1424.0	1427.7	1422.2	1402.7	1365.5	1321.8	1259.6	1282.8	1385.0	1398.0	1469.5
20°	1550.4	1565.2	1557.8	1533.6	1503.0	1438.0	1359.9	1336.7	1435.2	1444.5	1546.6
22.5°	1696.2	1712.0	1698.1	1674.8	1649.7	1569.9	1469.5	1402.7	1477.0	1496.5	1621.0
25°	1870.8	1885.7	1872.7	1836.5	1804.9	1707.3	1587.5	1477.0	1517.8	1539.2	1681.3
27.5°	2009.2	2020.4	2032.5	2011.1	1962.8	1861.5	1710.1	1554.1	1558.7	1581.0	1737.1
30°	2132.8	2160.6	2170.9	2173.7	2132.8	2019.5	1835.5	1634.0	1594.0	1617.2	1792.8
32.5°	2301.8	2343.6	2326.9	2343.6	2319.5	2168.1	1965.6	1716.6	1639.5	1660.9	1845.7
35°	2548.9	2582.4	2538.7	2525.7	2486.7	2318.6	2091.0	1802.1	1699.9	1723.1	1895.9
37.5°	2814.6	2852.7	2789.5	2737.5	2663.2	2467.2	2198.7	1914.5	1783.5	1802.1	1942.4
40°	3046.8	3078.4	3023.6	2954.9	2830.4	2598.2	2291.6	1993.4	1867.1	1890.3	1996.2
42.5°	3261.4	3281.8	3220.5	3154.6	2988.3	2716.1	2391.9	2077.0	1964.6	1986.9	2039.9
45°	3478.8	3494.6	3409.1	3315.3	3120.2	2823.9	2502.5	2194.1	2107.7	2137.4	2110.5
47.5°	3517.8	3522.4	3507.6	3444.4	3224.3	2927.0	2639.0	2351.1	2326.0	2358.5	2232.2
50°	3247.5	3289.3	3381.2	3443.5	3266.1	3013.4	2775.6	2575.9	2627.0	2668.8	2484.8
52.5°	2722.6	2762.6	2975.3	3211.2	3165.7	3032.9	2922.4	2861.0	3051.5	3101.6	2828.5
55°	2169.0	2204.3	2429.1	2769.1	2841.5	2943.7	3079.3	3225.2	3593.0	3626.5	3205.7
57.5°	1786.3	1805.8	1966.5	2293.5	2409.6	2658.5	3163.9	3658.1	4143.9	4195.0	3533.6
60°	1464.9	1486.3	1606.1	1875.5	2029.7	2250.8	3097.0	4085.4	4801.5	4801.5	3954.4
62.5°	1102.6	1121.2	1232.7	1443.5	1702.7	1905.2	2883.3	4368.7	5297.6	5275.3	4259.1
65°	757.1	771.9	852.7	993.0	1226.2	1623.7	2591.7	4372.4	5626.4	5596.7	4389.1
66°	635.4	648.4	717.1	830.4	1026.4	1473.3	2488.6	4293.4	5695.2	5653.4	4334.3
67.5°	501.6	510.9	556.4	623.3	752.4	1192.7	2326.0	4069.6	5688.7	5663.6	4195.0
70°	358.6	365.1	398.5	412.4	444.9	690.2	1847.6	3564.2	5232.6	5240.0	3646.9
72.5°	277.7	288.0	308.4	311.2	303.8	366.9	1121.2	2973.4	4280.4	4277.6	2706.9
75°	223.9	229.4	239.7	245.2	243.4	236.9	474.7	2218.2	2946.5	2980.9	1516.0
77.5°	176.5	175.6	184.9	192.3	197.9	185.8	217.4	1300.5	1544.8	1501.1	569.4
80°	130.0	130.0	143.1	145.8	154.2	156.1	144.9	501.6	530.4	482.1	147.7
82.5°	85.5	85.5	99.4	101.3	109.6	121.7	105.0	150.5	146.8	139.3	66.9
85°	46.4	44.6	49.2	55.7	60.4	71.5	63.2	75.2	77.1	76.2	44.6
87.5°	9.3	8.4	13.0	14.9	16.7	22.3	20.4	30.7	42.7	41.8	19.5
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°	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4	1183.4
2.5°	1190.9	1189.9	1200.2	1212.2	1226.2	1234.5	1238.2	1244.7	1240.1	1242.0	1247.5
5°	1208.5	1211.3	1226.2	1242.0	1248.5	1243.8	1233.6	1229.9	1221.5	1219.7	1217.8
7.5°	1234.5	1239.2	1254.0	1257.7	1238.2	1205.7	1182.5	1169.5	1155.6	1151.9	1150.0
10°	1277.3	1280.0	1283.8	1245.7	1197.4	1153.7	1124.9	1112.8	1103.5	1096.1	1098.0
12.5°	1331.1	1329.3	1300.5	1221.5	1152.8	1108.2	1088.7	1081.3	1074.8	1070.1	1069.2
15°	1398.9	1385.9	1303.3	1188.1	1111.0	1073.8	1059.9	1057.1	1049.7	1049.7	1048.7
17.5°	1467.7	1434.2	1301.4	1152.8	1071.0	1050.6	1042.2	1040.4	1038.5	1037.6	1040.4
20°	1536.4	1477.0	1286.5	1109.1	1043.2	1031.1	1029.2	1030.2	1028.3	1031.1	1029.2
22.5°	1596.8	1504.8	1258.7	1062.7	1023.7	1022.7	1018.1	1019.9	1026.4	1027.4	1030.2
25°	1643.2	1515.1	1217.8	1019.9	1009.7	1007.9	1013.4	1020.9	1026.4	1027.4	1032.0
27.5°	1681.3	1509.5	1166.7	986.5	985.6	995.8	1012.5	1015.3	1016.2	1016.2	1012.5
30°	1710.1	1497.4	1101.7	949.3	954.0	979.1	994.9	994.9	987.4	985.6	991.1
32.5°	1716.6	1481.6	1031.1	911.3	918.7	948.4	967.9	961.4	953.1	953.1	956.8
35°	1722.2	1460.2	974.4	859.2	870.4	905.7	924.3	911.3	902.0	899.2	898.3
37.5°	1720.3	1451.9	923.3	793.3	808.2	842.5	854.6	842.5	828.6	822.1	830.4
40°	1722.2	1446.3	859.2	720.8	735.7	756.1	771.9	762.6	749.6	732.9	741.3
42.5°	1733.4	1453.7	788.6	650.2	650.2	661.4	688.3	681.8	650.2	643.7	651.2
45°	1792.8	1493.7	718.0	579.6	569.4	576.9	604.7	576.9	557.3	557.3	563.8
47.5°	1936.8	1568.0	655.8	517.4	493.3	508.1	515.5	489.5	474.7	471.0	477.5
50°	2230.3	1716.6	618.7	466.3	436.6	447.7	443.1	442.2	427.3	429.2	432.9
52.5°	2676.2	2006.5	607.5	441.2	404.1	406.9	402.2	404.1	401.3	410.6	413.4
55°	3162.0	2312.1	621.4	444.9	381.8	362.3	364.1	373.4	384.6	399.4	402.2
57.5°	3525.2	2465.3	657.7	470.0	353.9	324.2	328.8	346.5	367.8	379.9	386.4
60°	3795.5	2446.8	710.6	476.5	320.5	289.8	298.2	324.2	342.8	353.0	359.5
62.5°	3883.8	2330.6	723.6	429.2	276.8	257.3	277.7	304.7	313.0	324.2	328.8
65°	3811.3	2166.2	628.9	348.3	243.4	233.2	262.9	283.3	294.5	300.0	301.0
66°	3725.9	2067.8	577.8	316.8	231.3	225.7	257.3	274.0	285.2	284.2	285.2
67.5°	3538.2	1861.5	495.1	272.2	213.6	214.6	248.0	259.2	262.9	260.1	260.1
70°	2900.1	1310.7	354.8	206.2	187.6	200.6	222.9	225.7	234.1	230.4	230.4
72.5°	1788.2	643.7	237.8	157.9	167.2	187.6	186.7	196.0	215.5	221.1	224.8
75°	878.8	261.0	157.0	133.8	149.6	157.0	155.1	178.4	206.2	230.4	238.7
77.5°	333.5	130.0	109.6	117.0	120.8	118.0	123.5	161.6	206.2	249.9	258.2
80°	103.1	90.1	86.4	96.6	91.0	86.4	92.9	133.8	174.6	189.5	189.5
82.5°	62.2	70.6	66.9	66.0	61.3	62.2	66.9	95.7	134.7	141.2	141.2
85°	43.7	46.4	38.1	36.2	35.3	34.4	34.4	55.7	79.9	79.0	81.7
87.5°	16.7	18.6	13.9	13.9	13.0	9.3	7.4	9.3	9.3	6.5	4.6
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)