

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: P1210779

Luminaire Tested: **ARCH3-70-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

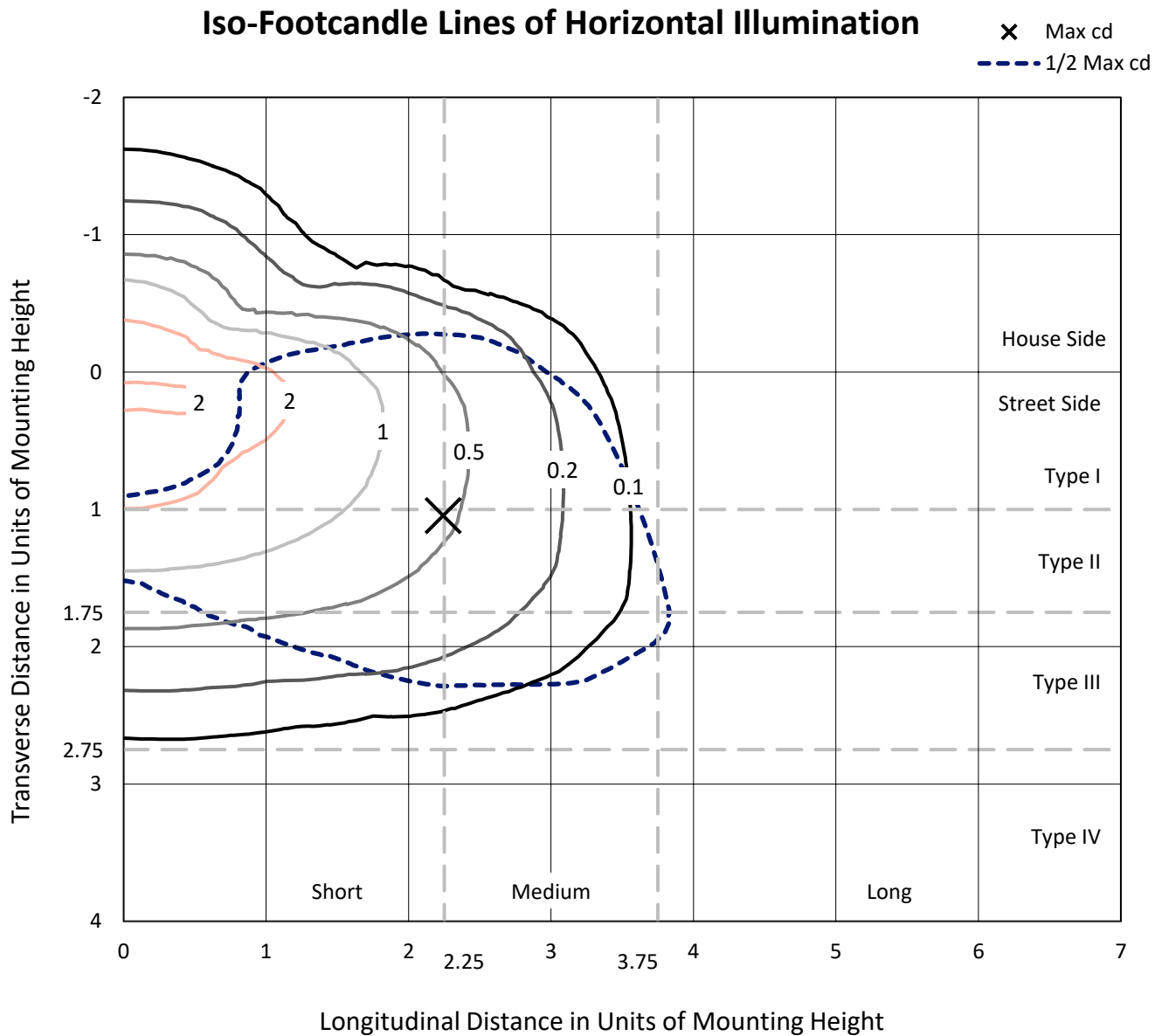
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11084 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.1
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

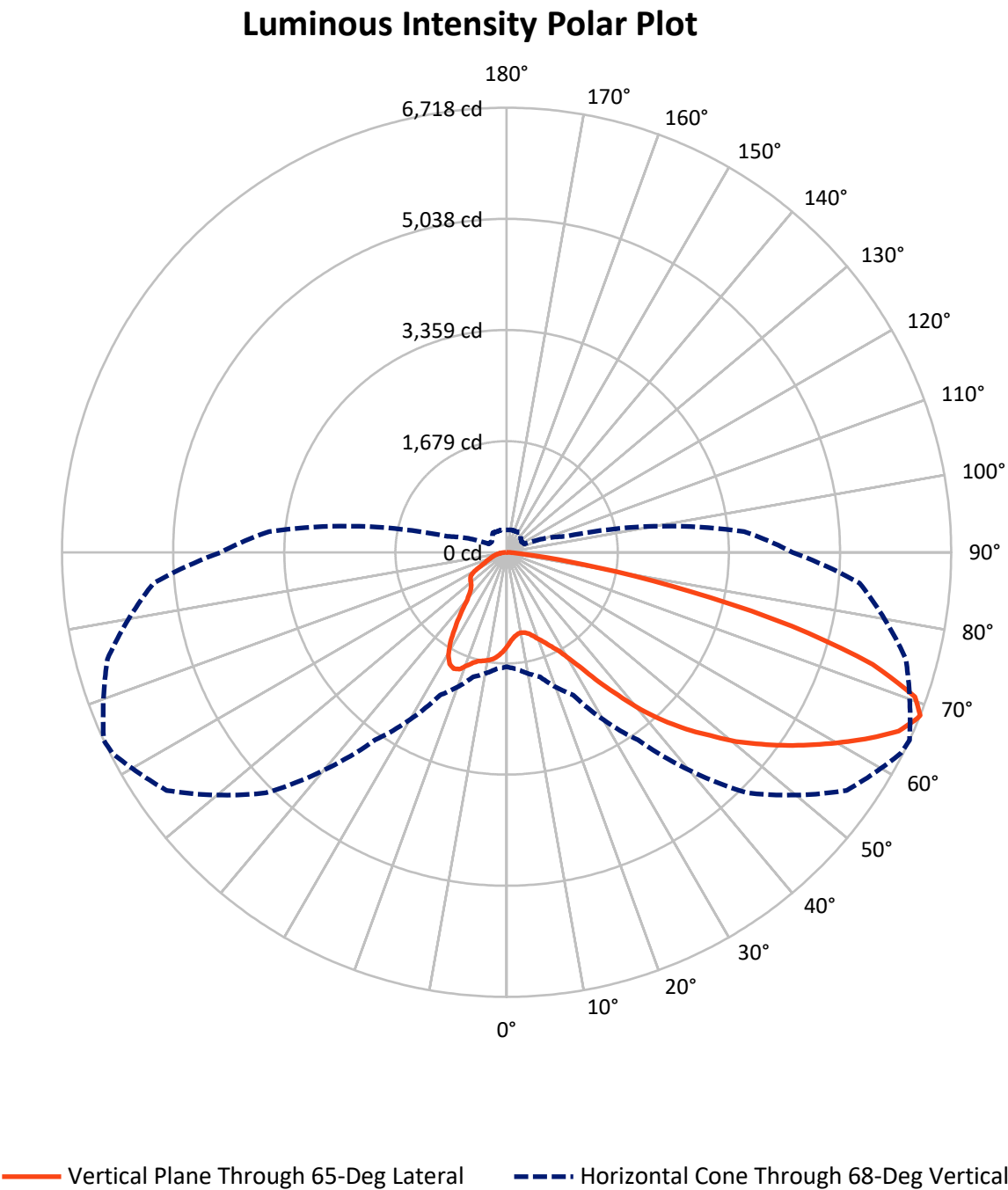


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Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.5	0.0	2717.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	8366.5	0.0	8366.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	11084.0	0.0	11084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.2
10°-20°	440.7	4.0
20°-30°	797.7	7.2
30°-40°	1254.9	11.3
40°-50°	1869.0	16.9
50°-60°	2451.8	22.1
60°-70°	2681.2	24.2
70°-80°	1326.7	12.0
80°-90°	126.6	1.1
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°	11084.0	100.0
0°-180°	11084.0	100.0

Coefficient of Utilization



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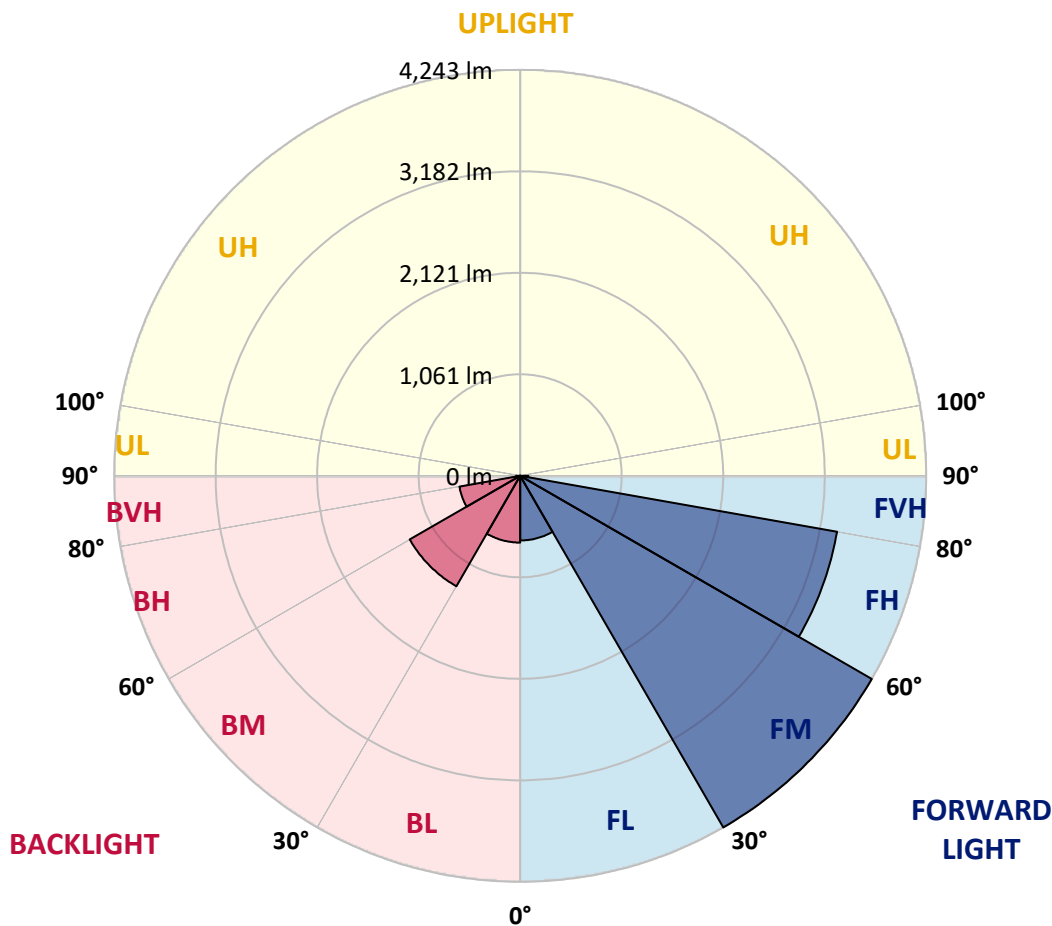
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.7	6.1			
FM	(30°-60°)	4242.8	38.3			
FH	(60°-80°)	3362.9	30.3			G2/5000
FVH	(80°-90°)	85.1	0.8			G1/100
BL	(0°-30°)	698.1	6.3	B2/1000		
BM	(30°-60°)	1332.9	12.0	B2/2500		
BH	(60°-80°)	645.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	41.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4
2.5°	1236.3	1233.5	1240.6	1247.7	1263.5	1282.0	1307.8	1329.2	1332.1	1372.1	1403.5
5°	1163.4	1159.1	1166.3	1174.9	1182.0	1204.9	1232.0	1263.5	1276.3	1334.9	1402.1
7.5°	1170.6	1169.1	1172.0	1169.1	1169.1	1179.1	1197.7	1229.2	1243.5	1313.5	1409.3
10°	1212.0	1214.9	1216.3	1207.7	1199.2	1194.9	1200.6	1222.0	1232.0	1314.9	1440.7
12.5°	1280.6	1284.9	1286.3	1270.6	1259.2	1240.6	1230.6	1239.2	1246.3	1329.2	1485.0
15°	1373.5	1376.4	1366.4	1356.4	1327.8	1304.9	1280.6	1273.5	1276.3	1359.2	1535.0
17.5°	1482.1	1477.9	1477.9	1453.6	1416.4	1380.7	1340.6	1334.9	1334.9	1407.8	1606.5
20°	1600.8	1605.1	1592.2	1559.3	1522.2	1466.4	1426.4	1400.7	1403.5	1463.6	1693.7
22.5°	1772.3	1779.4	1745.1	1698.0	1640.8	1576.5	1519.3	1477.9	1479.3	1536.5	1783.7
25°	1956.7	1959.5	1938.1	1875.2	1798.0	1706.5	1630.8	1577.9	1576.5	1617.9	1899.5
27.5°	2145.3	2158.2	2115.3	2055.3	1983.8	1869.5	1769.4	1698.0	1686.5	1742.3	2043.8
30°	2339.7	2355.4	2314.0	2255.4	2166.8	2069.6	1950.9	1868.0	1860.9	1935.2	2236.8
32.5°	2535.5	2539.8	2506.9	2458.3	2378.3	2286.8	2191.1	2099.6	2092.4	2213.9	2486.9
35°	2695.6	2708.5	2685.6	2674.2	2615.6	2531.2	2438.3	2385.4	2404.0	2559.8	2811.4
37.5°	2888.5	2901.4	2875.7	2872.8	2854.2	2781.3	2717.0	2721.3	2739.9	2951.4	3153.0
40°	3167.2	3181.5	3115.8	3087.2	3087.2	3015.7	2994.3	3095.8	3120.1	3337.3	3508.8
42.5°	3403.1	3425.9	3387.4	3368.8	3313.0	3263.0	3288.7	3431.7	3473.1	3706.1	3819.0
45°	3517.4	3534.6	3580.3	3634.6	3580.3	3493.1	3590.3	3751.8	3810.4	4046.2	4129.1
47.5°	3578.9	3594.6	3647.5	3793.3	3830.4	3757.5	3894.7	4096.3	4136.3	4383.6	4425.0
50°	3587.5	3637.5	3706.1	3851.9	4021.9	4032.0	4200.6	4446.4	4493.6	4715.1	4685.1
52.5°	3517.4	3537.4	3678.9	3924.8	4113.4	4284.9	4533.6	4782.3	4816.6	5026.7	4915.2
55°	3403.1	3431.7	3573.2	3907.6	4202.0	4525.0	4872.4	5112.5	5151.1	5329.7	5128.2
57.5°	3300.2	3314.5	3466.0	3857.6	4290.6	4765.2	5173.9	5456.9	5482.7	5595.6	5285.4
60°	3185.8	3201.6	3353.1	3750.4	4356.4	4946.7	5488.4	5804.2	5827.1	5875.7	5468.4
62.5°	2890.0	2931.4	3121.5	3573.2	4339.2	5153.9	5824.2	6147.3	6175.8	6123.0	5612.7
65°	2346.9	2405.5	2638.4	3171.5	4179.2	5288.3	6098.7	6463.1	6511.7	6308.8	5651.3
67.5°	1822.3	1863.8	2051.0	2516.9	3617.5	5221.1	6275.9	6680.4	6694.7	6278.8	5436.9
68°	1728.0	1769.4	1948.1	2379.7	3461.7	5141.1	6271.6	6686.1	6717.5	6245.9	5354.0
70°	1322.1	1369.2	1539.3	1885.2	2789.9	4632.2	6010.1	6548.9	6544.6	5848.5	4839.5
72.5°	826.1	853.3	970.5	1189.1	1845.2	3524.6	5101.0	5775.7	5787.1	4768.0	3711.8
75°	524.5	524.5	518.8	576.0	946.2	2008.1	3791.8	4446.4	4455.0	3338.8	2339.7
77.5°	455.9	443.1	381.6	323.0	377.3	780.4	2243.9	2871.4	2824.2	1798.0	1110.5
80°	384.5	363.0	313.0	260.1	243.0	244.4	861.8	1457.8	1395.0	647.5	368.8
82.5°	277.3	258.7	235.8	204.4	187.2	145.8	180.1	421.6	411.6	187.2	120.1
85°	150.1	135.8	132.9	134.4	112.9	90.0	75.8	92.9	92.9	81.5	68.6
87.5°	52.9	38.6	45.7	51.5	44.3	37.2	30.0	35.7	37.2	35.7	32.9
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°	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4	1416.4
2.5°	1422.1	1436.4	1470.7	1500.7	1522.2	1540.7	1550.8	1555.0	1565.0	1566.5	1563.6
5°	1433.6	1470.7	1522.2	1566.5	1590.8	1600.8	1603.6	1605.1	1600.8	1603.6	1600.8
7.5°	1463.6	1510.7	1583.6	1622.2	1626.5	1610.8	1612.2	1606.5	1612.2	1617.9	1617.9
10°	1509.3	1569.3	1637.9	1652.2	1633.6	1625.1	1642.2	1676.5	1688.0	1703.7	1703.7
12.5°	1569.3	1640.8	1689.4	1676.5	1659.4	1688.0	1738.0	1772.3	1783.7	1789.4	1785.2
15°	1637.9	1715.1	1739.4	1696.5	1728.0	1789.4	1806.6	1786.6	1758.0	1745.1	1752.3
17.5°	1725.1	1789.4	1775.1	1746.6	1818.0	1826.6	1770.9	1706.5	1660.8	1643.7	1655.1
20°	1816.6	1872.3	1806.6	1819.5	1863.8	1772.3	1666.5	1583.6	1543.6	1536.5	1547.9
22.5°	1913.8	1949.5	1838.0	1903.8	1838.0	1652.2	1525.0	1482.1	1472.1	1483.6	1493.6
25°	2023.8	2019.5	1892.3	1929.5	1742.3	1505.0	1429.3	1426.4	1426.4	1433.6	1447.8
27.5°	2148.2	2081.0	1946.7	1895.2	1576.5	1383.5	1369.2	1370.7	1366.4	1367.8	1375.0
30°	2292.5	2163.9	2006.7	1782.3	1390.7	1292.1	1286.3	1282.0	1272.0	1269.2	1272.0
32.5°	2474.1	2251.1	2068.1	1596.5	1227.7	1197.7	1194.9	1172.0	1147.7	1144.8	1154.8
35°	2704.2	2409.7	2099.6	1363.5	1093.4	1092.0	1082.0	1046.2	1014.8	1014.8	1007.6
37.5°	2967.2	2614.1	2112.5	1136.3	981.9	989.1	960.5	914.7	890.4	876.1	880.4
40°	3235.9	2847.1	2111.0	937.6	884.7	886.1	864.7	809.0	748.9	713.2	721.8
42.5°	3494.5	3058.6	2073.9	831.8	806.1	801.8	784.7	708.9	658.9	630.3	631.7
45°	3701.8	3277.3	2016.7	768.9	734.6	741.8	703.2	657.5	611.7	586.0	584.6
47.5°	3909.0	3443.1	1925.2	730.4	681.8	668.9	653.2	621.7	587.4	558.8	560.3
50°	4097.7	3584.6	1839.5	704.6	633.2	600.3	603.1	584.6	554.6	528.8	527.4
52.5°	4230.6	3677.5	1792.3	690.3	574.6	538.8	548.8	538.8	510.2	491.7	490.2
55°	4363.5	3749.0	1808.0	671.8	510.2	481.7	498.8	496.0	480.2	474.5	475.9
57.5°	4470.7	3803.3	1863.8	637.5	448.8	431.6	460.2	451.6	440.2	441.6	441.6
60°	4575.1	3873.3	1929.5	558.8	395.9	397.3	424.5	408.8	401.6	414.5	415.9
62.5°	4683.7	3949.1	1875.2	444.5	350.2	360.2	391.6	378.8	381.6	400.2	405.9
65°	4670.8	3941.9	1527.9	364.5	310.2	330.2	377.3	373.0	374.5	381.6	384.5
67.5°	4407.8	3690.4	1050.5	310.2	281.6	305.9	365.9	348.7	350.2	345.9	347.3
68°	4319.2	3601.7	926.2	301.6	275.8	300.1	360.2	344.5	345.9	341.6	340.2
70°	3836.1	3084.4	586.0	265.8	255.8	284.4	331.6	325.9	324.4	321.6	321.6
72.5°	2924.3	2276.8	308.7	230.1	233.0	260.1	295.9	307.3	300.1	301.6	310.2
75°	1936.7	1369.2	214.4	197.2	204.4	223.0	263.0	285.9	278.7	283.0	278.7
77.5°	1024.8	737.5	171.5	167.2	167.2	180.1	217.2	253.0	253.0	250.1	245.8
80°	335.9	260.1	137.2	131.5	134.4	141.5	174.4	207.2	211.5	205.8	203.0
82.5°	112.9	120.1	102.9	95.8	98.6	104.3	131.5	158.6	160.1	148.6	145.8
85°	70.0	80.0	64.3	62.9	62.9	64.3	80.0	87.2	80.0	71.5	74.3
87.5°	32.9	40.0	30.0	25.7	21.4	18.6	14.3	5.7	5.7	2.9	2.9
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)