

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: P1211579

Luminaire Tested: **ARCH4-50-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211579
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: ARCH4-50-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8717 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.2
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



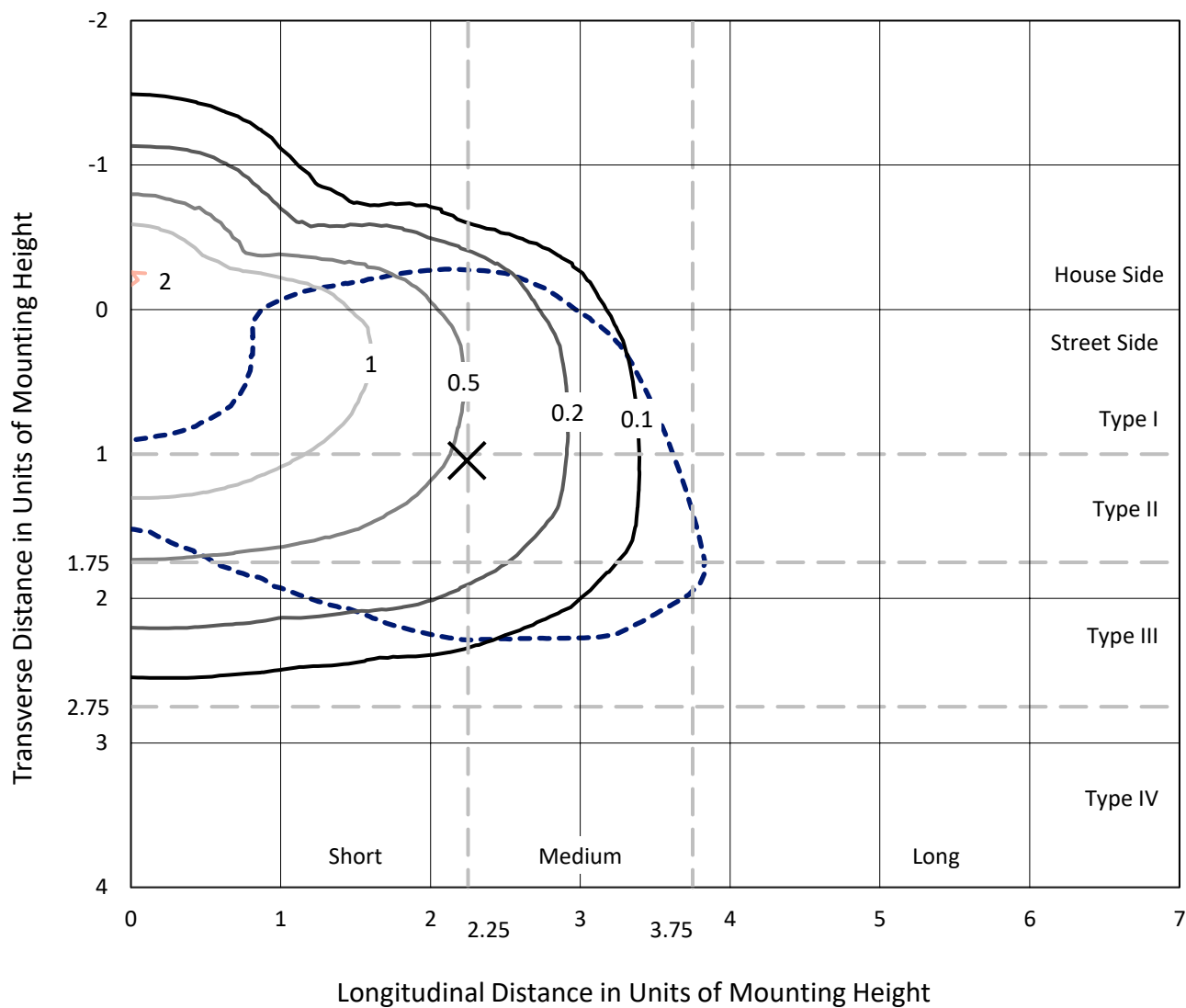
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

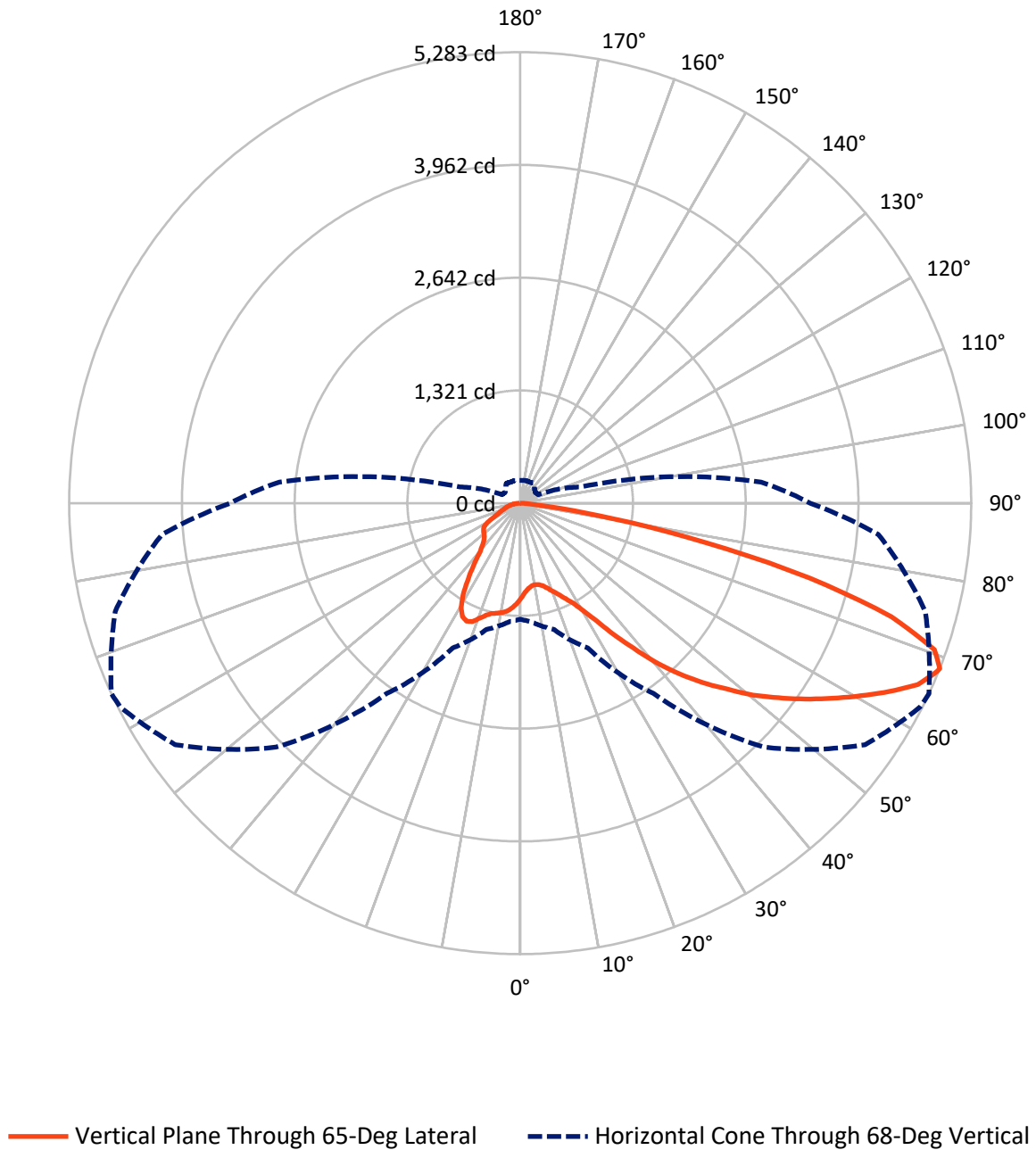


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2137.2	0.0	2137.2
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6579.8	0.0	6579.8
	% Fixture	75.5	0.0	75.5
Total	Lumens	8717.0	0.0	8717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	1.2
10°-20°	346.6	4.0
20°-30°	627.4	7.2
30°-40°	986.9	11.3
40°-50°	1469.9	16.9
50°-60°	1928.2	22.1
60°-70°	2108.6	24.2
70°-80°	1043.4	12.0
80°-90°	99.5	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°	8717.0	100.0
0°-180°	8717.0	100.0

Coefficient of Utilization



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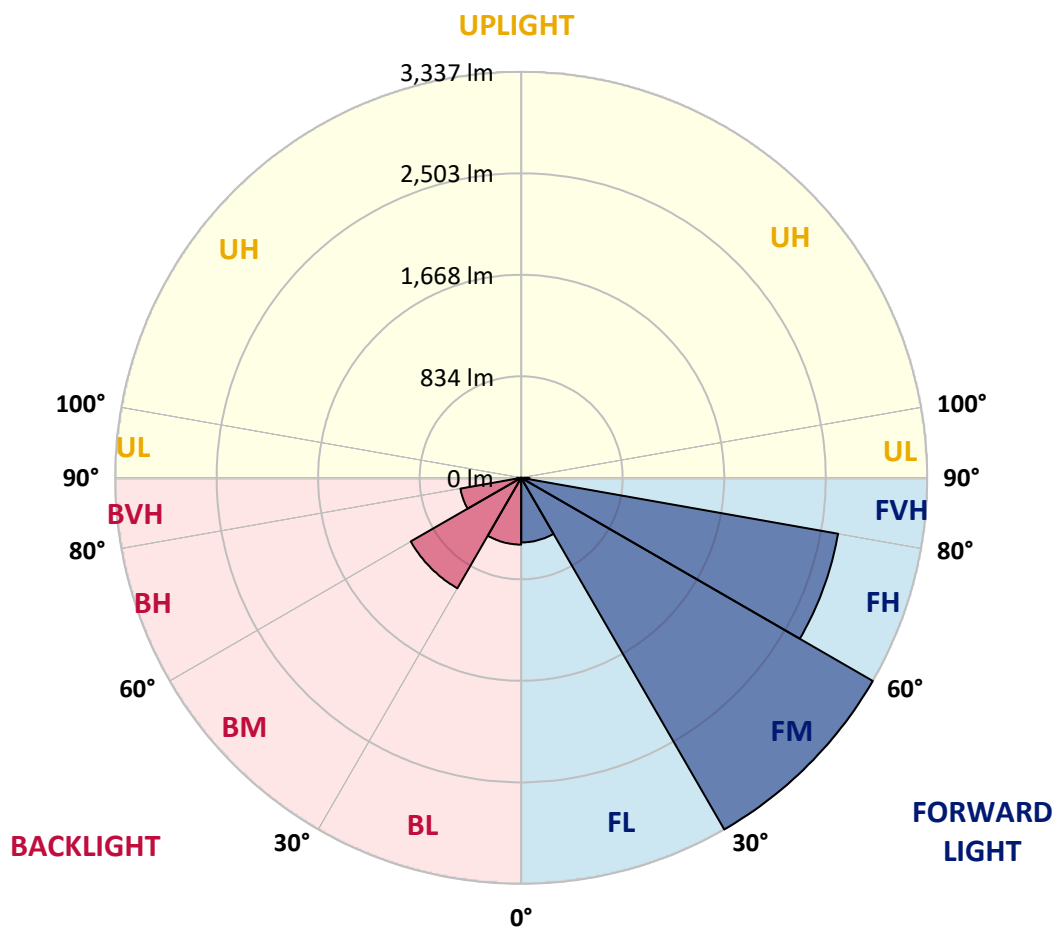
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	531.4	6.1			
FM	(30°-60°)	3336.7	38.3			
FH	(60°-80°)	2644.8	30.3			G2/5000
FVH	(80°-90°)	66.9	0.8			G1/100
BL	(0°-30°)	549.1	6.3	B2/1000		
BM	(30°-60°)	1048.3	12.0	B2/2500		
BH	(60°-80°)	507.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	32.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	972.3	970.0	975.7	981.3	993.7	1008.3	1028.5	1045.4	1047.6	1079.1	1103.8
5°	915.0	911.6	917.2	924.0	929.6	947.6	968.9	993.7	1003.8	1049.9	1102.7
7.5°	920.6	919.5	921.7	919.5	919.5	927.3	941.9	966.7	977.9	1033.0	1108.3
10°	953.2	955.4	956.6	949.8	943.1	939.7	944.2	961.1	968.9	1034.1	1133.0
12.5°	1007.1	1010.5	1011.6	999.3	990.3	975.7	967.8	974.5	980.2	1045.4	1167.9
15°	1080.2	1082.5	1074.6	1066.7	1044.2	1026.3	1007.1	1001.5	1003.8	1069.0	1207.2
17.5°	1165.6	1162.3	1162.3	1143.2	1113.9	1085.8	1054.4	1049.9	1049.9	1107.2	1263.4
20°	1258.9	1262.3	1252.2	1226.3	1197.1	1153.3	1121.8	1101.6	1103.8	1151.0	1332.0
22.5°	1393.8	1399.4	1372.5	1335.4	1290.4	1239.8	1194.9	1162.3	1163.4	1208.3	1402.8
25°	1538.8	1541.1	1524.2	1474.7	1414.0	1342.1	1282.5	1240.9	1239.8	1272.4	1493.9
27.5°	1687.2	1697.3	1663.6	1616.4	1560.2	1470.2	1391.6	1335.4	1326.4	1370.2	1607.4
30°	1840.1	1852.4	1819.8	1773.7	1704.0	1627.6	1534.3	1469.1	1463.5	1522.0	1759.1
32.5°	1994.1	1997.4	1971.6	1933.4	1870.4	1798.5	1723.2	1651.2	1645.6	1741.1	1955.8
35°	2119.9	2130.1	2112.1	2103.1	2057.0	1990.7	1917.6	1876.0	1890.6	2013.2	2211.0
37.5°	2271.7	2281.8	2261.6	2259.3	2244.7	2187.4	2136.8	2140.2	2154.8	2321.1	2479.6
40°	2490.9	2502.1	2450.4	2427.9	2427.9	2371.7	2354.9	2434.7	2453.8	2624.6	2759.5
42.5°	2676.3	2694.3	2664.0	2649.4	2605.5	2566.2	2586.4	2698.8	2731.4	2914.6	3003.4
45°	2766.3	2779.8	2815.7	2858.4	2815.7	2747.2	2823.6	2950.6	2996.7	3182.2	3247.4
47.5°	2814.6	2827.0	2868.6	2983.2	3012.4	2955.1	3063.0	3221.5	3253.0	3447.4	3480.0
50°	2821.3	2860.7	2914.6	3029.3	3163.1	3170.9	3303.6	3496.9	3534.0	3708.2	3684.6
52.5°	2766.3	2782.0	2893.3	3086.6	3235.0	3369.9	3565.5	3761.0	3788.0	3953.3	3865.6
55°	2676.3	2698.8	2810.1	3073.1	3304.7	3558.7	3831.9	4020.7	4051.1	4191.6	4033.1
57.5°	2595.4	2606.7	2725.8	3033.8	3374.4	3747.6	4069.0	4291.6	4311.8	4400.6	4156.7
60°	2505.5	2517.9	2637.0	2949.5	3426.1	3890.3	4316.3	4564.7	4582.7	4620.9	4300.6
62.5°	2272.8	2305.4	2454.9	2810.1	3412.6	4053.3	4580.5	4834.5	4857.0	4815.4	4414.1
65°	1845.7	1891.8	2075.0	2494.3	3286.7	4159.0	4796.3	5082.9	5121.1	4961.5	4444.5
67.5°	1433.2	1465.8	1613.0	1979.4	2845.0	4106.1	4935.7	5253.8	5265.0	4937.9	4275.9
68°	1359.0	1391.6	1532.1	1871.5	2722.4	4043.2	4932.3	5258.3	5283.0	4912.1	4210.7
70°	1039.7	1076.8	1210.6	1482.6	2194.1	3643.0	4726.6	5150.4	5147.0	4599.6	3806.0
72.5°	649.7	671.1	763.2	935.2	1451.1	2771.9	4011.7	4542.3	4551.3	3749.8	2919.1
75°	412.5	412.5	408.0	453.0	744.1	1579.3	2982.1	3496.9	3503.6	2625.8	1840.1
77.5°	358.6	348.5	300.1	254.0	296.7	613.7	1764.7	2258.2	2221.1	1414.0	873.4
80°	302.4	285.5	246.2	204.6	191.1	192.2	677.8	1146.5	1097.1	509.2	290.0
82.5°	218.1	203.5	185.5	160.7	147.2	114.7	141.6	331.6	323.7	147.2	94.4
85°	118.0	106.8	104.5	105.7	88.8	70.8	59.6	73.1	73.1	64.1	54.0
87.5°	41.6	30.3	36.0	40.5	34.8	29.2	23.6	28.1	29.2	28.1	25.9
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°	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9	1113.9
2.5°	1118.4	1129.7	1156.6	1180.2	1197.1	1211.7	1219.6	1223.0	1230.8	1232.0	1229.7
5°	1127.4	1156.6	1197.1	1232.0	1251.1	1258.9	1261.2	1262.3	1258.9	1261.2	1258.9
7.5°	1151.0	1188.1	1245.4	1275.8	1279.2	1266.8	1267.9	1263.4	1267.9	1272.4	1272.4
10°	1187.0	1234.2	1288.2	1299.4	1284.8	1278.0	1291.5	1318.5	1327.5	1339.9	1339.9
12.5°	1234.2	1290.4	1328.6	1318.5	1305.0	1327.5	1366.8	1393.8	1402.8	1407.3	1403.9
15°	1288.2	1348.9	1368.0	1334.2	1359.0	1407.3	1420.8	1405.1	1382.6	1372.5	1378.1
17.5°	1356.7	1407.3	1396.1	1373.6	1429.8	1436.5	1392.7	1342.1	1306.1	1292.6	1301.6
20°	1428.7	1472.5	1420.8	1430.9	1465.8	1393.8	1310.6	1245.4	1214.0	1208.3	1217.3
22.5°	1505.1	1533.2	1445.5	1497.2	1445.5	1299.4	1199.4	1165.6	1157.8	1166.8	1174.6
25°	1591.6	1588.3	1488.2	1517.5	1370.2	1183.6	1124.0	1121.8	1121.8	1127.4	1138.7
27.5°	1689.4	1636.6	1530.9	1490.5	1239.8	1088.1	1076.8	1078.0	1074.6	1075.7	1081.3
30°	1803.0	1701.8	1578.2	1401.7	1093.7	1016.1	1011.6	1008.3	1000.4	998.2	1000.4
32.5°	1945.7	1770.4	1626.5	1255.6	965.6	941.9	939.7	921.7	902.6	900.4	908.2
35°	2126.7	1895.1	1651.2	1072.3	859.9	858.8	850.9	822.8	798.1	798.1	792.5
37.5°	2333.5	2055.9	1661.3	893.6	772.2	777.8	755.4	719.4	700.3	689.0	692.4
40°	2544.8	2239.1	1660.2	737.4	695.8	696.9	680.0	636.2	589.0	560.9	567.6
42.5°	2748.3	2405.5	1631.0	654.2	634.0	630.6	617.1	557.5	518.2	495.7	496.8
45°	2911.3	2577.4	1586.0	604.7	577.8	583.4	553.0	517.1	481.1	460.9	459.7
47.5°	3074.3	2707.8	1514.1	574.4	536.2	526.1	513.7	489.0	462.0	439.5	440.6
50°	3222.6	2819.1	1446.6	554.2	498.0	472.1	474.3	459.7	436.1	415.9	414.8
52.5°	3327.2	2892.2	1409.5	542.9	451.9	423.8	431.6	423.8	401.3	386.7	385.5
55°	3431.7	2948.4	1421.9	528.3	401.3	378.8	392.3	390.0	377.7	373.2	374.3
57.5°	3516.0	2991.1	1465.8	501.3	352.9	339.5	361.9	355.2	346.2	347.3	347.3
60°	3598.1	3046.2	1517.5	439.5	311.4	312.5	333.8	321.5	315.9	326.0	327.1
62.5°	3683.5	3105.7	1474.7	349.6	275.4	283.3	308.0	297.9	300.1	314.7	319.2
65°	3673.4	3100.1	1201.6	286.6	243.9	259.7	296.7	293.4	294.5	300.1	302.4
67.5°	3466.5	2902.3	826.2	243.9	221.4	240.5	287.8	274.3	275.4	272.0	273.1
68°	3396.9	2832.6	728.4	237.2	216.9	236.0	283.3	270.9	272.0	268.6	267.5
70°	3016.9	2425.7	460.9	209.1	201.2	223.7	260.8	256.3	255.2	252.9	252.9
72.5°	2299.8	1790.6	242.8	181.0	183.2	204.6	232.7	241.7	236.0	237.2	243.9
75°	1523.1	1076.8	168.6	155.1	160.7	175.4	206.8	224.8	219.2	222.6	219.2
77.5°	805.9	580.0	134.9	131.5	131.5	141.6	170.9	199.0	199.0	196.7	193.3
80°	264.2	204.6	107.9	103.4	105.7	111.3	137.1	163.0	166.4	161.9	159.6
82.5°	88.8	94.4	80.9	75.3	77.6	82.1	103.4	124.8	125.9	116.9	114.7
85°	55.1	62.9	50.6	49.5	49.5	50.6	62.9	68.6	62.9	56.2	58.5
87.5°	25.9	31.5	23.6	20.2	16.9	14.6	11.2	4.5	4.5	2.2	2.2
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)