

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: P1210715

Luminaire Tested: **ARCH3-50-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210715
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: ARCH3-50-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

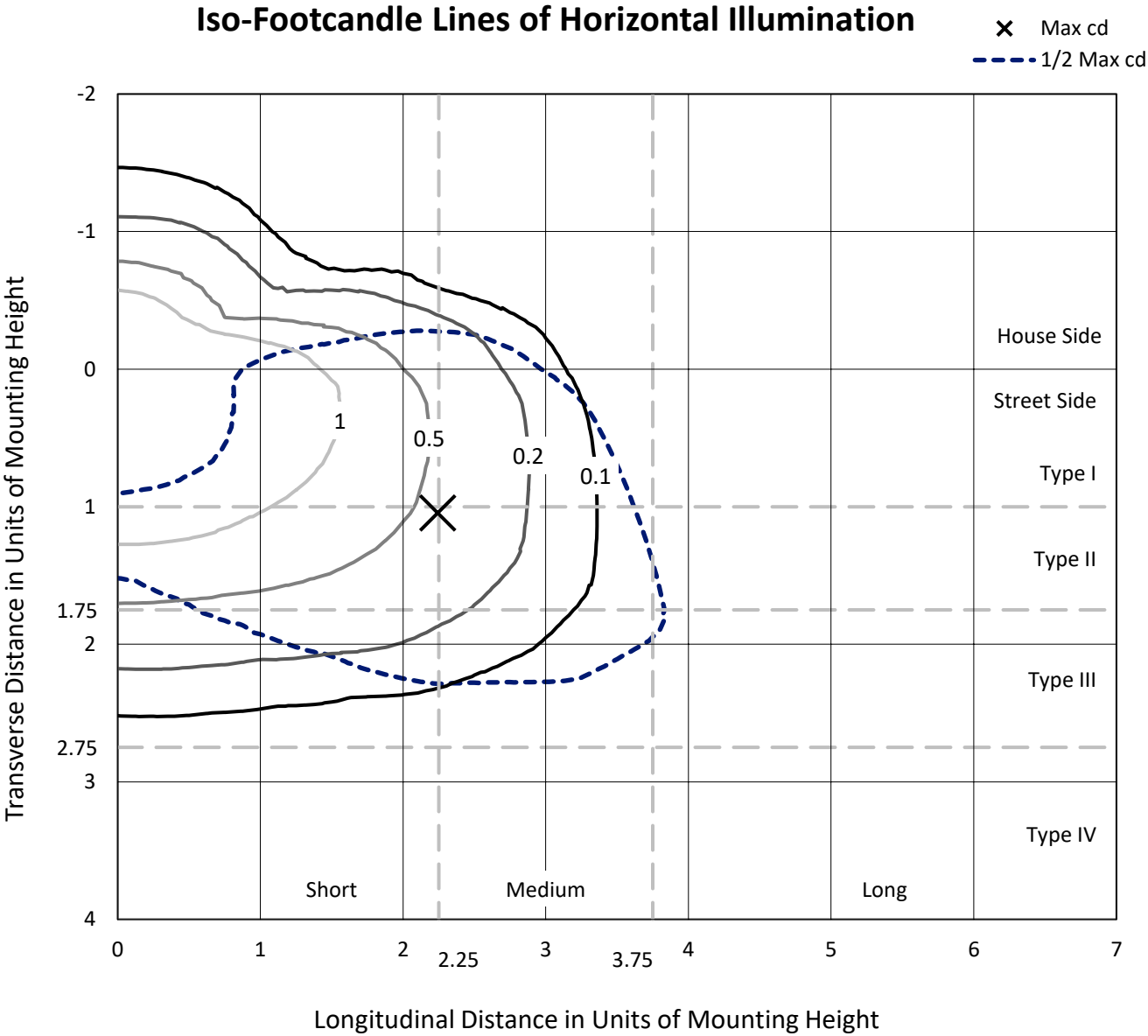
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8303 lumens
Efficiency: N/A
Efficacy: 154.9 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): 53.6
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

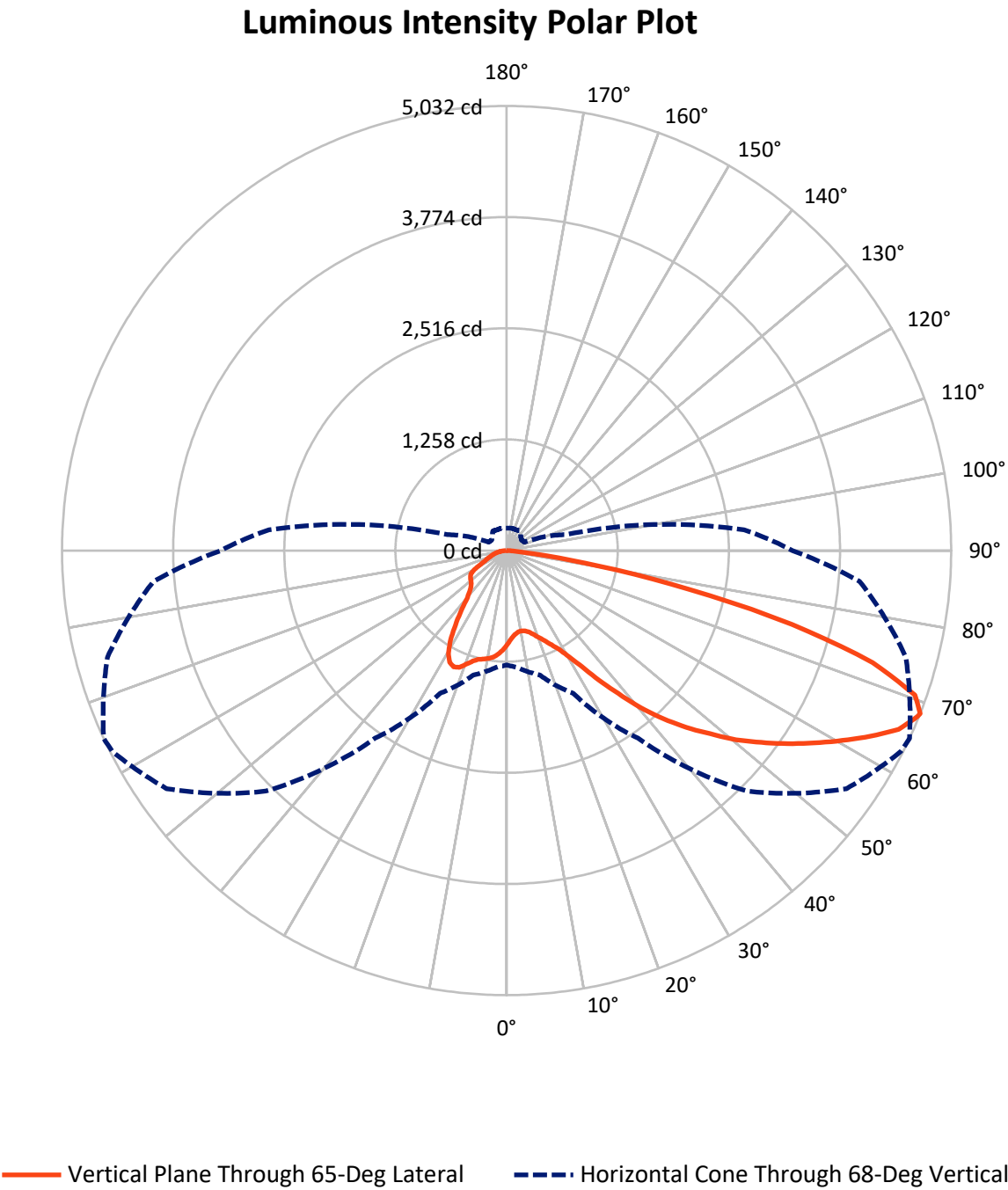


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Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.6	0.0	2035.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	6267.3	0.0	6267.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	8303.0	0.0	8303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.2
10°-20°	330.2	4.0
20°-30°	597.6	7.2
30°-40°	940.0	11.3
40°-50°	1400.1	16.9
50°-60°	1836.6	22.1
60°-70°	2008.5	24.2
70°-80°	993.9	12.0
80°-90°	94.8	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°	8303.0	100.0
0°-180°	8303.0	100.0

Coefficient of Utilization



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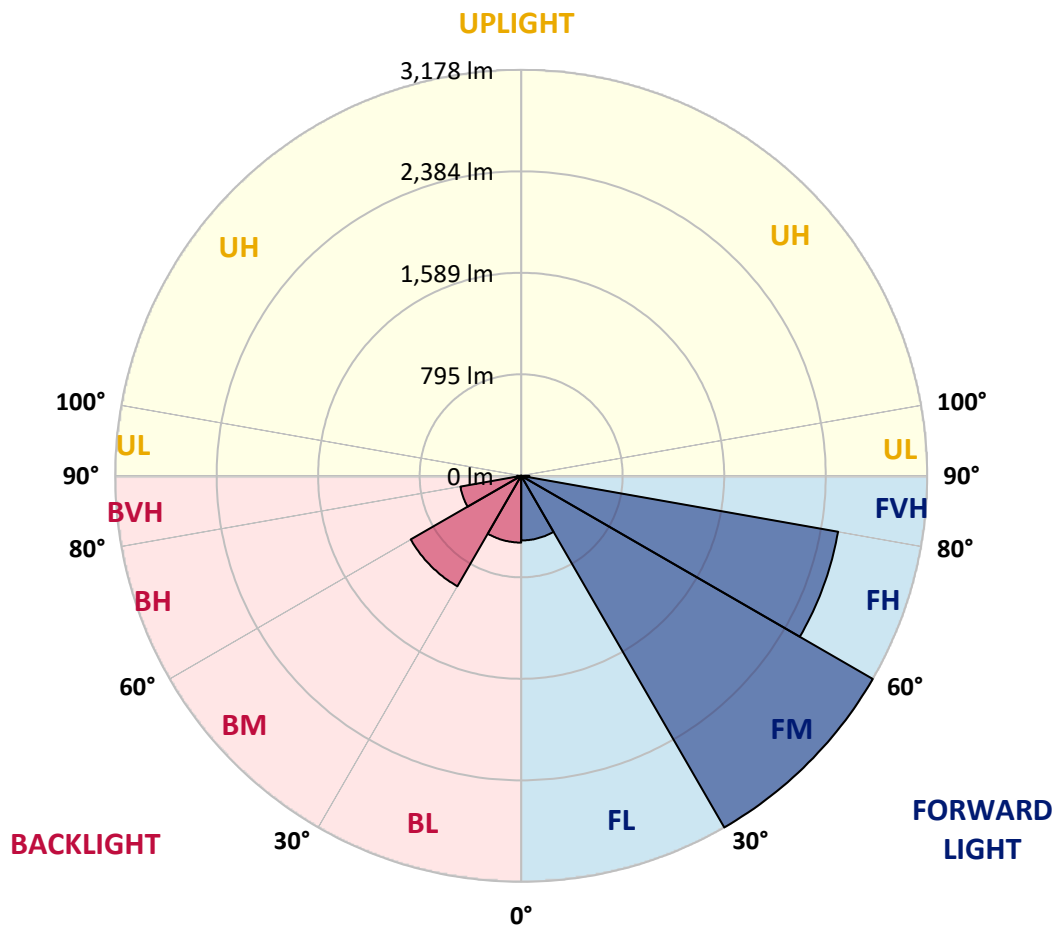
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.2	6.1			
FM	(30°-60°)	3178.3	38.3			
FH	(60°-80°)	2519.2	30.3			G2/5000
FVH	(80°-90°)	63.8	0.8			G1/100
BL	(0°-30°)	523.0	6.3	B2/1000		
BM	(30°-60°)	998.5	12.0	B1/1000		
BH	(60°-80°)	483.2	5.8	B1/500		G1/500
BVH	(80°-90°)	31.0	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°	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0
2.5°	926.1	924.0	929.3	934.7	946.5	960.4	979.7	995.7	997.9	1027.8	1051.4
5°	871.5	868.3	873.7	880.1	885.4	902.6	922.9	946.5	956.1	1000.0	1050.3
7.5°	876.9	875.8	877.9	875.8	875.8	883.3	897.2	920.8	931.5	983.9	1055.7
10°	907.9	910.1	911.1	904.7	898.3	895.1	899.4	915.4	922.9	985.0	1079.2
12.5°	959.3	962.5	963.6	951.8	943.3	929.3	921.8	928.3	933.6	995.7	1112.4
15°	1028.9	1031.0	1023.5	1016.1	994.6	977.5	959.3	954.0	956.1	1018.2	1149.9
17.5°	1110.3	1107.1	1107.1	1088.9	1061.0	1034.3	1004.3	1000.0	1000.0	1054.6	1203.4
20°	1199.1	1202.3	1192.7	1168.1	1140.3	1098.5	1068.5	1049.2	1051.4	1096.4	1268.7
22.5°	1327.6	1333.0	1307.3	1271.9	1229.1	1180.9	1138.1	1107.1	1108.1	1151.0	1336.2
25°	1465.7	1467.9	1451.8	1404.7	1346.9	1278.4	1221.6	1182.0	1180.9	1212.0	1422.9
27.5°	1607.1	1616.7	1584.6	1539.6	1486.1	1400.4	1325.5	1271.9	1263.4	1305.1	1531.0
30°	1752.7	1764.4	1733.4	1689.5	1623.1	1550.3	1461.4	1399.4	1394.0	1449.7	1675.6
32.5°	1899.3	1902.6	1877.9	1841.5	1781.6	1713.1	1641.3	1572.8	1567.4	1658.4	1862.9
35°	2019.3	2028.9	2011.8	2003.2	1959.3	1896.1	1826.5	1786.9	1800.8	1917.5	2106.0
37.5°	2163.8	2173.4	2154.2	2152.0	2138.1	2083.5	2035.3	2038.5	2052.5	2210.9	2361.9
40°	2372.6	2383.3	2334.0	2312.6	2312.6	2259.1	2243.0	2319.0	2337.2	2500.0	2628.5
42.5°	2549.2	2566.4	2537.5	2523.5	2481.8	2444.3	2463.6	2570.7	2601.7	2776.2	2860.8
45°	2634.9	2647.7	2682.0	2722.7	2682.0	2616.7	2689.5	2810.5	2854.4	3031.0	3093.1
47.5°	2680.9	2692.7	2732.3	2841.5	2869.4	2814.8	2917.5	3068.5	3098.5	3283.7	3314.8
50°	2687.4	2724.8	2776.2	2885.4	3012.8	3020.3	3146.7	3330.8	3366.1	3532.1	3509.6
52.5°	2634.9	2649.9	2755.9	2940.0	3081.4	3209.8	3396.1	3582.4	3608.1	3765.5	3682.0
55°	2549.2	2570.7	2676.6	2927.2	3147.7	3389.7	3649.9	3829.7	3858.7	3992.5	3841.5
57.5°	2472.2	2482.9	2596.3	2889.7	3214.1	3569.6	3875.8	4087.8	4107.0	4191.6	3959.3
60°	2386.5	2398.3	2511.8	2809.4	3263.4	3705.5	4111.3	4347.9	4365.1	4401.5	4096.3
62.5°	2164.9	2195.9	2338.3	2676.6	3250.5	3860.8	4362.9	4604.9	4626.3	4586.7	4204.5
65°	1758.0	1801.9	1976.4	2375.8	3130.6	3961.4	4568.5	4841.5	4877.9	4725.9	4233.4
67.5°	1365.1	1396.1	1536.4	1885.4	2709.8	3911.1	4701.3	5004.3	5015.0	4703.4	4072.8
68°	1294.4	1325.5	1459.3	1782.6	2593.1	3851.2	4698.0	5008.5	5032.1	4678.8	4010.7
70°	990.4	1025.7	1153.1	1412.2	2089.9	3470.0	4502.1	4905.8	4902.5	4381.1	3625.2
72.5°	618.8	639.2	727.0	890.8	1382.2	2640.2	3821.2	4326.5	4335.1	3571.7	2780.5
75°	392.9	392.9	388.6	431.5	708.8	1504.3	2840.5	3330.8	3337.2	2501.1	1752.7
77.5°	341.5	331.9	285.9	242.0	282.7	584.6	1680.9	2151.0	2115.6	1346.9	831.9
80°	288.0	271.9	234.5	194.9	182.0	183.1	645.6	1092.1	1045.0	485.0	276.2
82.5°	207.7	193.8	176.7	153.1	140.3	109.2	134.9	315.8	308.3	140.3	89.9
85°	112.4	101.7	99.6	100.6	84.6	67.5	56.7	69.6	69.6	61.0	51.4
87.5°	39.6	28.9	34.3	38.5	33.2	27.8	22.5	26.8	27.8	26.8	24.6
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°	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0	1061.0
2.5°	1065.3	1076.0	1101.7	1124.2	1140.3	1154.2	1161.7	1164.9	1172.4	1173.4	1171.3
5°	1073.9	1101.7	1140.3	1173.4	1191.6	1199.1	1201.3	1202.3	1199.1	1201.3	1199.1
7.5°	1096.4	1131.7	1186.3	1215.2	1218.4	1206.6	1207.7	1203.4	1207.7	1212.0	1212.0
10°	1130.6	1175.6	1227.0	1237.7	1223.8	1217.3	1230.2	1255.9	1264.4	1276.2	1276.2
12.5°	1175.6	1229.1	1265.5	1255.9	1243.0	1264.4	1301.9	1327.6	1336.2	1340.5	1337.3
15°	1227.0	1284.8	1303.0	1270.9	1294.4	1340.5	1353.3	1338.3	1316.9	1307.3	1312.6
17.5°	1292.3	1340.5	1329.8	1308.3	1361.9	1368.3	1326.5	1278.4	1244.1	1231.3	1239.8
20°	1360.8	1402.6	1353.3	1362.9	1396.1	1327.6	1248.4	1186.3	1156.3	1151.0	1159.5
22.5°	1433.6	1460.4	1376.9	1426.1	1376.9	1237.7	1142.4	1110.3	1102.8	1111.3	1118.8
25°	1516.1	1512.8	1417.6	1445.4	1305.1	1127.4	1070.7	1068.5	1068.5	1073.9	1084.6
27.5°	1609.2	1558.9	1458.2	1419.7	1180.9	1036.4	1025.7	1026.8	1023.5	1024.6	1030.0
30°	1717.3	1621.0	1503.2	1335.1	1041.8	967.9	963.6	960.4	952.9	950.7	952.9
32.5°	1853.3	1686.3	1549.2	1195.9	919.7	897.2	895.1	877.9	859.7	857.6	865.1
35°	2025.7	1805.1	1572.8	1021.4	819.1	818.0	810.5	783.7	760.2	760.2	754.8
37.5°	2222.7	1958.2	1582.4	851.2	735.5	740.9	719.5	685.2	667.0	656.3	659.5
40°	2424.0	2132.8	1581.4	702.4	662.7	663.8	647.7	606.0	561.0	534.3	540.7
42.5°	2617.8	2291.2	1553.5	623.1	603.9	600.6	587.8	531.0	493.6	472.2	473.2
45°	2773.0	2455.0	1510.7	576.0	550.3	555.7	526.8	492.5	458.2	439.0	437.9
47.5°	2928.3	2579.2	1442.2	547.1	510.7	501.1	489.3	465.7	440.0	418.6	419.7
50°	3069.6	2685.2	1377.9	527.8	474.3	449.7	451.8	437.9	415.4	396.1	395.1
52.5°	3169.1	2754.8	1342.6	517.1	430.4	403.6	411.1	403.6	382.2	368.3	367.2
55°	3268.7	2808.3	1354.4	503.2	382.2	360.8	373.7	371.5	359.7	355.5	356.5
57.5°	3349.0	2849.0	1396.1	477.5	336.2	323.3	344.8	338.3	329.8	330.8	330.8
60°	3427.2	2901.5	1445.4	418.6	296.6	297.6	318.0	306.2	300.9	310.5	311.6
62.5°	3508.5	2958.2	1404.7	333.0	262.3	269.8	293.4	283.7	285.9	299.8	304.1
65°	3498.9	2952.9	1144.5	273.0	232.3	247.3	282.7	279.4	280.5	285.9	288.0
67.5°	3301.9	2764.4	786.9	232.3	210.9	229.1	274.1	261.2	262.3	259.1	260.2
68°	3235.5	2698.1	693.8	225.9	206.6	224.8	269.8	258.0	259.1	255.9	254.8
70°	2873.6	2310.5	439.0	199.1	191.6	213.1	248.4	244.1	243.0	240.9	240.9
72.5°	2190.6	1705.6	231.3	172.4	174.5	194.9	221.6	230.2	224.8	225.9	232.3
75°	1450.7	1025.7	160.6	147.8	153.1	167.0	197.0	214.1	208.8	212.0	208.8
77.5°	767.7	552.5	128.5	125.3	125.3	134.9	162.7	189.5	189.5	187.4	184.2
80°	251.6	194.9	102.8	98.5	100.6	106.0	130.6	155.2	158.5	154.2	152.0
82.5°	84.6	89.9	77.1	71.7	73.9	78.2	98.5	118.8	119.9	111.3	109.2
85°	52.5	60.0	48.2	47.1	47.1	48.2	60.0	65.3	60.0	53.5	55.7
87.5°	24.6	30.0	22.5	19.3	16.1	13.9	10.7	4.3	4.3	2.1	2.1
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)