

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: P1210680

Luminaire Tested: **ARCH3-40-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

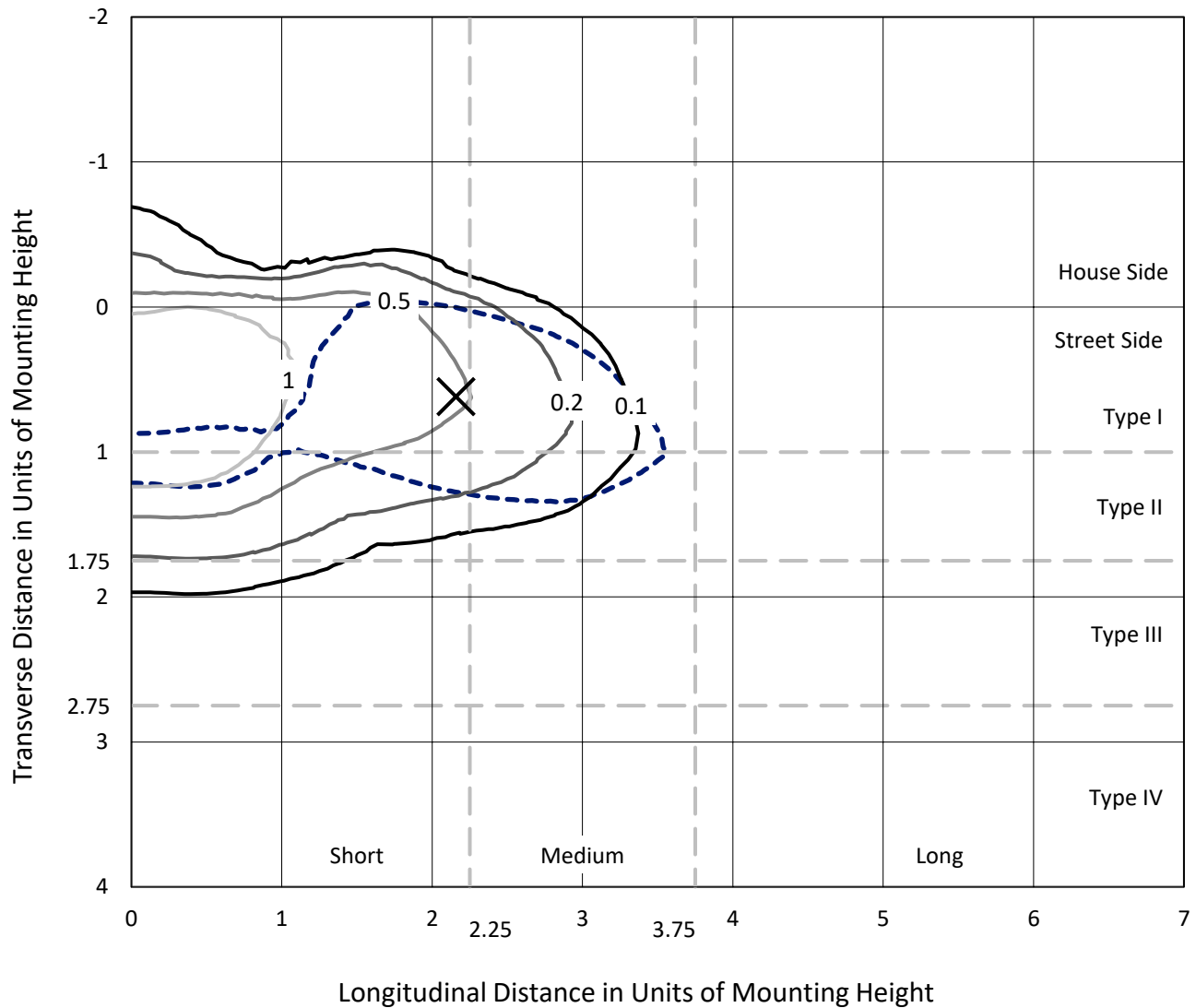
Input Watts (W): 43.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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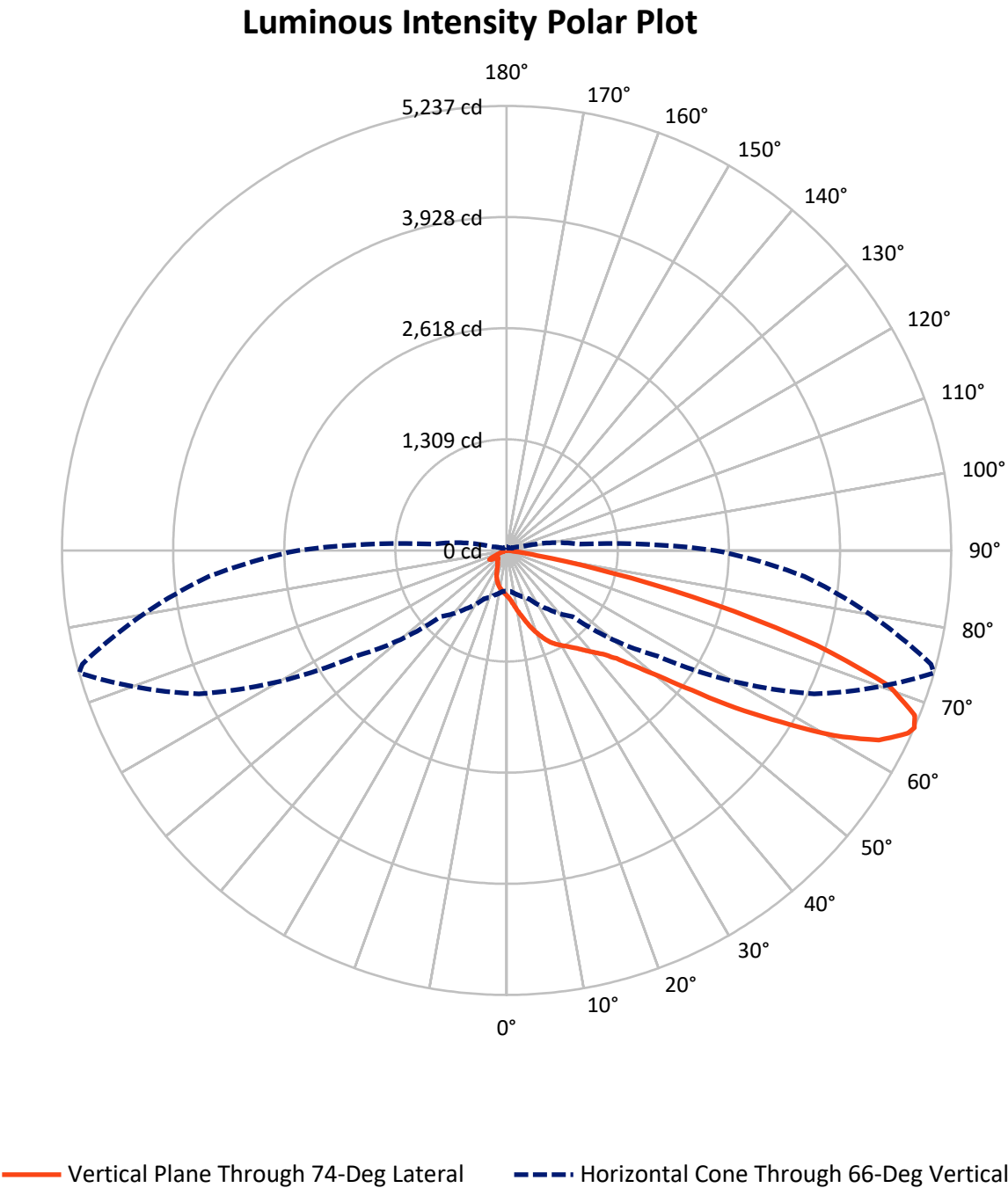
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	478.5	0.0	478.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4402.5	0.0	4402.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	4881.0	0.0	4881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.1
10°-20°	166.7	3.4
20°-30°	318.2	6.5
30°-40°	557.7	11.4
40°-50°	956.3	19.6
50°-60°	1243.7	25.5
60°-70°	1125.9	23.1
70°-80°	434.4	8.9
80°-90°	26.1	0.5
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°	4881.0	100.0
0°-180°	4881.0	100.0

Coefficient of Utilization



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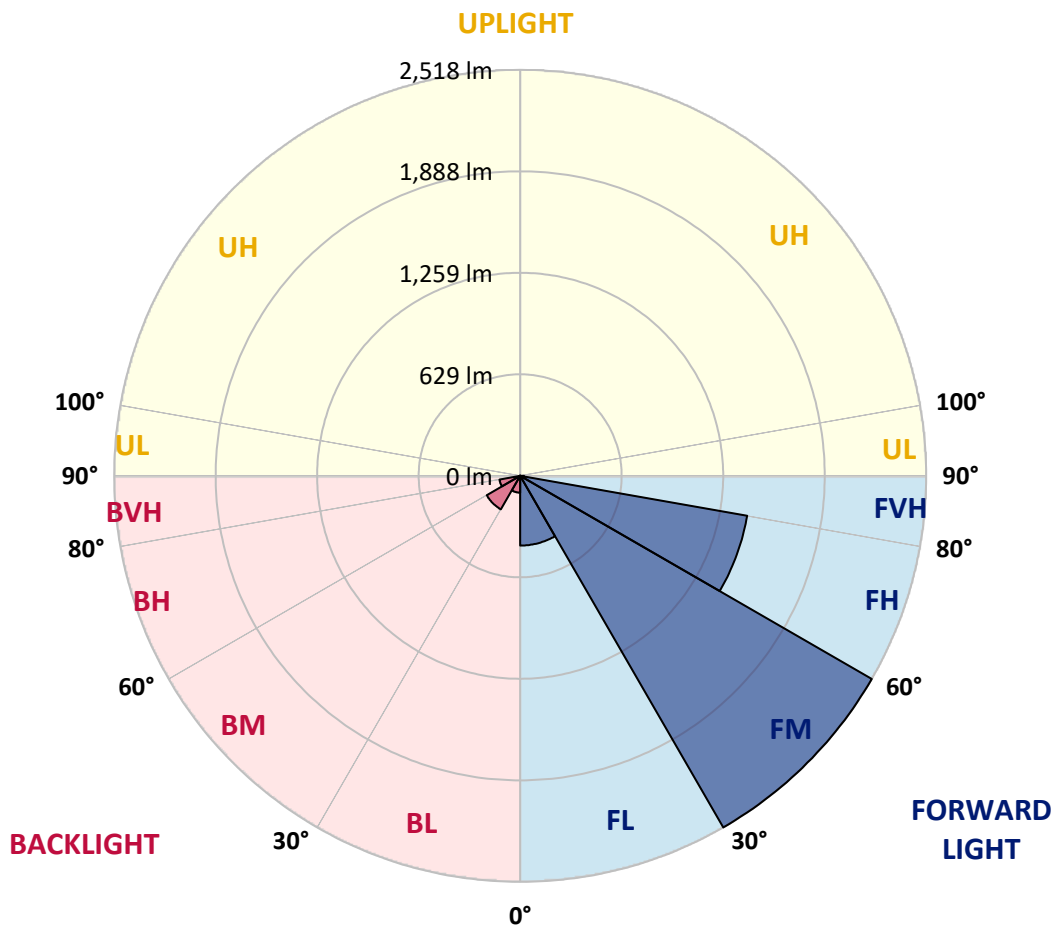
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.5	8.9			
FM	(30°-60°)	2517.9	51.6			
FH	(60°-80°)	1429.5	29.3			G1/1800
FVH	(80°-90°)	22.6	0.5			G1/100
BL	(0°-30°)	104.4	2.1	B0/110		
BM	(30°-60°)	239.8	4.9	B1/1000		
BH	(60°-80°)	130.8	2.7	B1/500		G1/500
BVH	(80°-90°)	3.5	0.1			G0/10
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°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	639.7	634.5	624.8	623.9	616.1	606.4	589.8	572.2	560.0	558.2	543.3
5°	765.9	763.3	753.6	747.5	732.6	709.8	671.3	632.7	600.3	596.8	563.5
7.5°	799.2	801.0	802.7	808.8	803.6	793.1	764.2	709.8	659.0	651.1	593.3
10°	804.5	802.7	802.7	810.6	825.5	840.4	836.9	790.4	724.7	715.1	634.5
12.5°	861.4	864.1	857.9	854.4	851.8	859.7	886.0	865.8	793.9	786.1	684.4
15°	935.0	934.2	925.4	925.4	917.5	904.4	921.0	935.9	877.2	867.6	741.4
17.5°	988.5	992.0	991.1	996.4	993.7	976.2	967.5	998.1	963.1	950.8	806.2
20°	1031.4	1041.1	1044.6	1061.2	1069.1	1056.8	1034.1	1053.3	1045.5	1034.1	871.9
22.5°	1077.0	1084.9	1091.0	1119.9	1141.8	1139.2	1110.3	1105.9	1125.2	1114.7	936.8
25°	1122.6	1126.1	1144.5	1179.5	1214.6	1223.3	1193.5	1159.4	1197.1	1187.4	994.6
27.5°	1172.5	1174.3	1196.2	1239.1	1288.2	1306.6	1282.9	1219.8	1252.3	1252.3	1047.2
30°	1263.7	1281.2	1289.9	1328.5	1371.4	1396.9	1368.8	1283.8	1301.3	1309.2	1102.4
32.5°	1460.0	1462.6	1460.0	1476.6	1485.4	1500.3	1467.8	1355.7	1351.3	1360.1	1156.7
35°	1759.7	1749.1	1721.1	1696.6	1645.7	1617.7	1575.6	1447.7	1412.6	1424.9	1210.2
37.5°	2123.3	2108.4	2044.5	1969.1	1860.4	1748.3	1695.7	1559.9	1490.6	1506.4	1268.0
40°	2470.3	2460.7	2384.5	2291.6	2105.8	1913.9	1802.6	1654.5	1577.4	1583.5	1326.8
42.5°	2756.0	2754.3	2690.3	2593.0	2354.7	2092.7	1928.8	1747.4	1668.5	1678.2	1388.1
45°	2972.5	2955.8	2908.5	2838.4	2595.7	2278.4	2081.3	1888.5	1814.9	1826.3	1480.1
47.5°	2972.5	2975.1	3005.8	2998.8	2763.9	2452.8	2247.8	2066.4	2031.3	2041.8	1631.7
50°	2730.6	2755.2	2891.9	3006.7	2851.5	2588.7	2427.4	2289.0	2324.9	2340.7	1896.4
52.5°	2252.1	2293.3	2530.8	2792.8	2786.7	2657.0	2613.2	2572.0	2733.2	2761.3	2287.2
55°	1711.5	1738.6	2048.0	2392.4	2504.5	2600.9	2775.3	2931.3	3273.9	3267.8	2684.2
57.5°	1278.6	1304.0	1570.4	1952.4	2100.5	2358.2	2858.6	3342.3	3810.2	3833.9	3056.6
60°	940.3	959.6	1186.5	1500.3	1714.1	1986.6	2825.3	3747.1	4428.1	4400.9	3385.2
62.5°	695.8	706.3	870.2	1074.4	1358.3	1618.6	2615.8	4024.1	4921.4	4866.2	3568.4
65°	538.1	541.6	626.6	735.2	987.6	1258.4	2303.8	4066.1	5194.0	5135.2	3564.9
66°	479.3	482.0	544.2	628.3	840.4	1101.5	2167.1	3998.7	5236.9	5174.7	3521.1
67.5°	402.2	400.5	437.3	492.5	631.0	850.0	1924.4	3801.5	5186.1	5154.5	3380.8
70°	297.9	298.8	317.2	330.4	368.9	470.6	1389.8	3297.6	4779.5	4777.7	2996.1
72.5°	220.8	223.5	237.5	240.1	230.5	255.0	801.0	2622.8	3823.4	3824.3	2239.9
75°	165.6	170.0	174.4	176.1	167.4	161.2	361.9	1764.9	2515.0	2496.6	1268.0
77.5°	126.2	127.9	131.4	128.8	127.1	111.3	150.7	860.5	1241.7	1131.3	411.0
80°	92.0	92.0	95.5	92.0	91.1	79.7	82.4	276.0	364.5	303.2	88.5
82.5°	57.8	57.0	59.6	58.7	57.0	50.8	48.2	77.1	84.1	75.4	42.9
85°	32.4	31.5	30.7	29.8	27.2	22.8	26.3	28.9	38.6	39.4	30.7
87.5°	11.4	11.4	10.5	9.6	7.9	7.9	9.6	9.6	14.0	14.0	15.8
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°	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8	532.8
2.5°	536.3	526.7	512.6	494.2	481.1	468.0	453.9	446.0	434.7	432.0	435.5
5°	545.9	528.4	493.4	454.8	421.5	391.7	363.7	347.0	330.4	324.2	326.9
7.5°	566.1	536.3	476.7	414.5	359.3	314.6	281.3	262.0	247.1	241.0	242.7
10°	595.9	550.3	460.9	368.9	297.9	250.6	222.6	210.3	201.6	198.0	198.9
12.5°	631.8	570.5	440.8	323.4	245.4	204.2	191.0	188.4	186.7	184.9	185.8
15°	672.1	588.0	417.1	278.7	204.2	181.4	177.0	176.1	175.3	175.3	175.3
17.5°	714.2	603.8	390.8	236.6	177.9	167.4	164.7	164.7	164.7	165.6	165.6
20°	753.6	616.1	360.2	198.9	163.0	154.2	152.5	152.5	153.4	154.2	154.2
22.5°	792.2	621.3	324.2	172.6	150.7	142.8	140.2	140.2	140.2	141.1	141.1
25°	825.5	621.3	288.3	156.0	140.2	132.3	128.8	127.9	128.8	128.8	128.8
27.5°	853.5	618.7	253.3	144.6	129.7	121.8	118.3	117.4	119.2	120.1	120.1
30°	883.3	615.2	225.2	134.1	120.9	113.0	109.5	109.5	112.2	115.7	115.7
32.5°	912.3	617.8	203.3	125.3	112.2	106.0	102.5	103.4	108.7	113.9	113.9
35°	942.9	623.1	190.2	119.2	106.0	99.9	97.3	99.9	105.2	110.4	110.4
37.5°	973.6	629.2	182.3	113.9	100.8	94.6	92.9	96.4	102.5	107.8	108.7
40°	1006.0	634.5	173.5	108.7	97.3	90.3	89.4	92.9	100.8	106.0	106.9
42.5°	1046.3	645.0	163.0	104.3	93.8	85.0	85.9	88.5	96.4	104.3	105.2
45°	1125.2	678.3	152.5	99.9	89.4	82.4	80.6	82.4	91.1	99.9	101.7
47.5°	1273.3	753.6	141.1	95.5	85.0	80.6	73.6	75.4	83.3	92.9	93.8
50°	1557.2	914.0	135.0	91.1	81.5	74.5	66.6	66.6	72.7	81.5	81.5
52.5°	1999.8	1201.4	138.5	87.6	77.1	68.4	60.5	59.6	63.1	69.2	69.2
55°	2477.4	1516.9	151.6	84.1	71.9	64.8	56.1	51.7	54.3	57.8	57.8
57.5°	2855.9	1675.5	187.5	82.4	65.7	62.2	50.8	44.7	47.3	50.8	50.8
60°	3022.4	1582.6	227.8	84.1	61.3	57.8	45.6	39.4	43.8	47.3	48.2
62.5°	2887.5	1303.1	244.5	79.7	55.2	51.7	44.7	36.8	42.1	44.7	45.6
65°	2595.7	990.2	191.0	69.2	50.8	44.7	40.3	35.1	39.4	42.1	42.1
66°	2457.2	863.2	163.0	64.0	49.1	42.1	38.6	35.1	38.6	40.3	41.2
67.5°	2242.5	680.9	120.9	56.1	45.6	38.6	35.9	33.3	36.8	38.6	38.6
70°	1753.5	405.7	72.7	43.8	39.4	34.2	32.4	30.7	33.3	34.2	34.2
72.5°	1098.0	192.8	46.4	32.4	33.3	32.4	27.2	28.9	29.8	30.7	30.7
75°	531.9	76.2	31.5	23.7	27.2	30.7	21.9	25.4	26.3	28.0	27.2
77.5°	148.1	36.8	20.2	17.5	23.7	23.7	16.7	20.2	23.7	29.8	27.2
80°	42.9	23.7	13.1	13.1	16.7	16.7	11.4	14.0	15.8	17.5	18.4
82.5°	29.8	15.8	8.8	9.6	9.6	10.5	7.0	7.0	8.8	8.8	9.6
85°	23.7	7.0	5.3	6.1	4.4	5.3	3.5	3.5	4.4	3.5	3.5
87.5°	9.6	3.5	3.5	3.5	2.6	2.6	1.8	0.9	0.9	0.9	0.9
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)