

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: P800134

Luminaire Tested: **ARCH2-80-727-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7386 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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

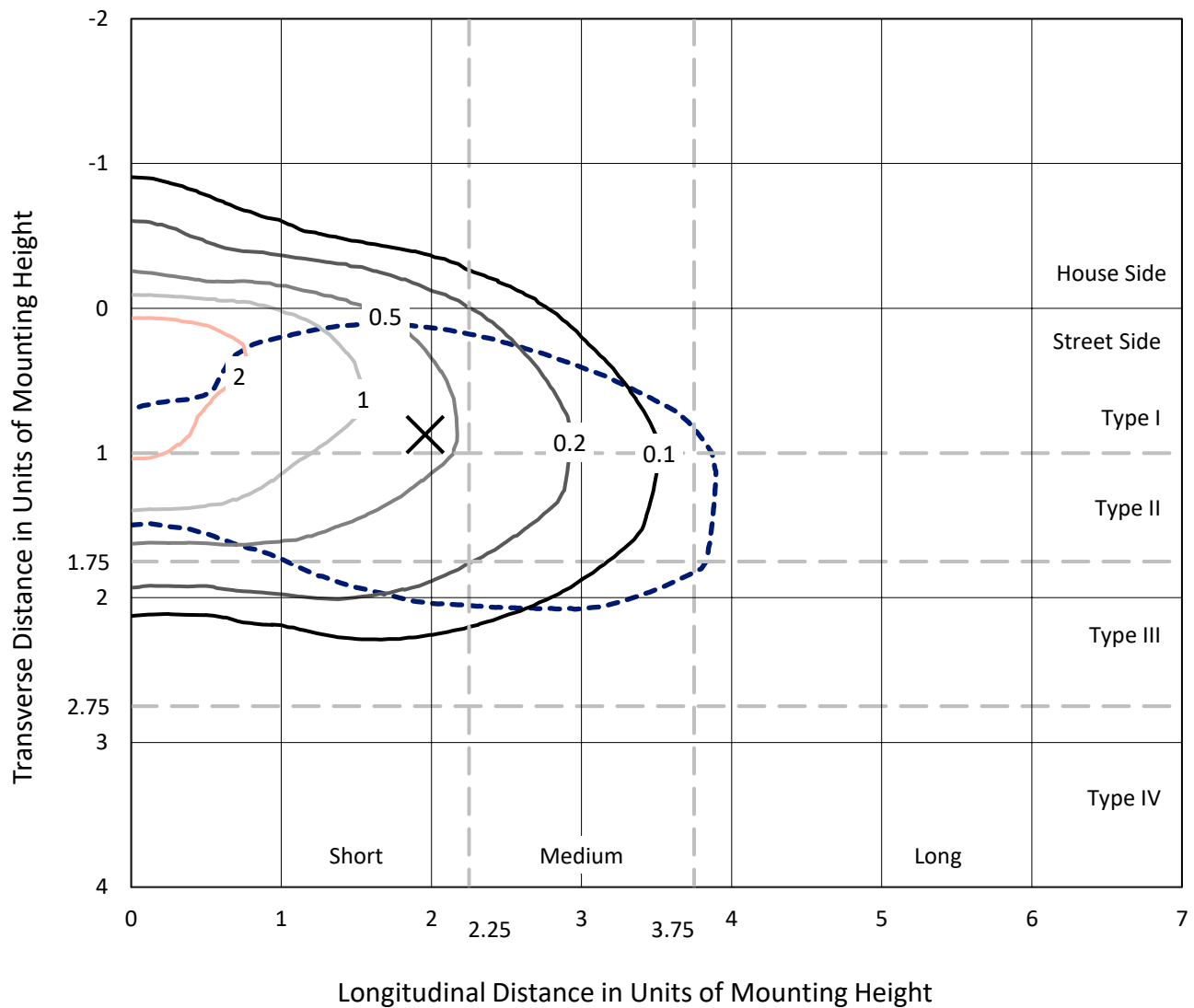


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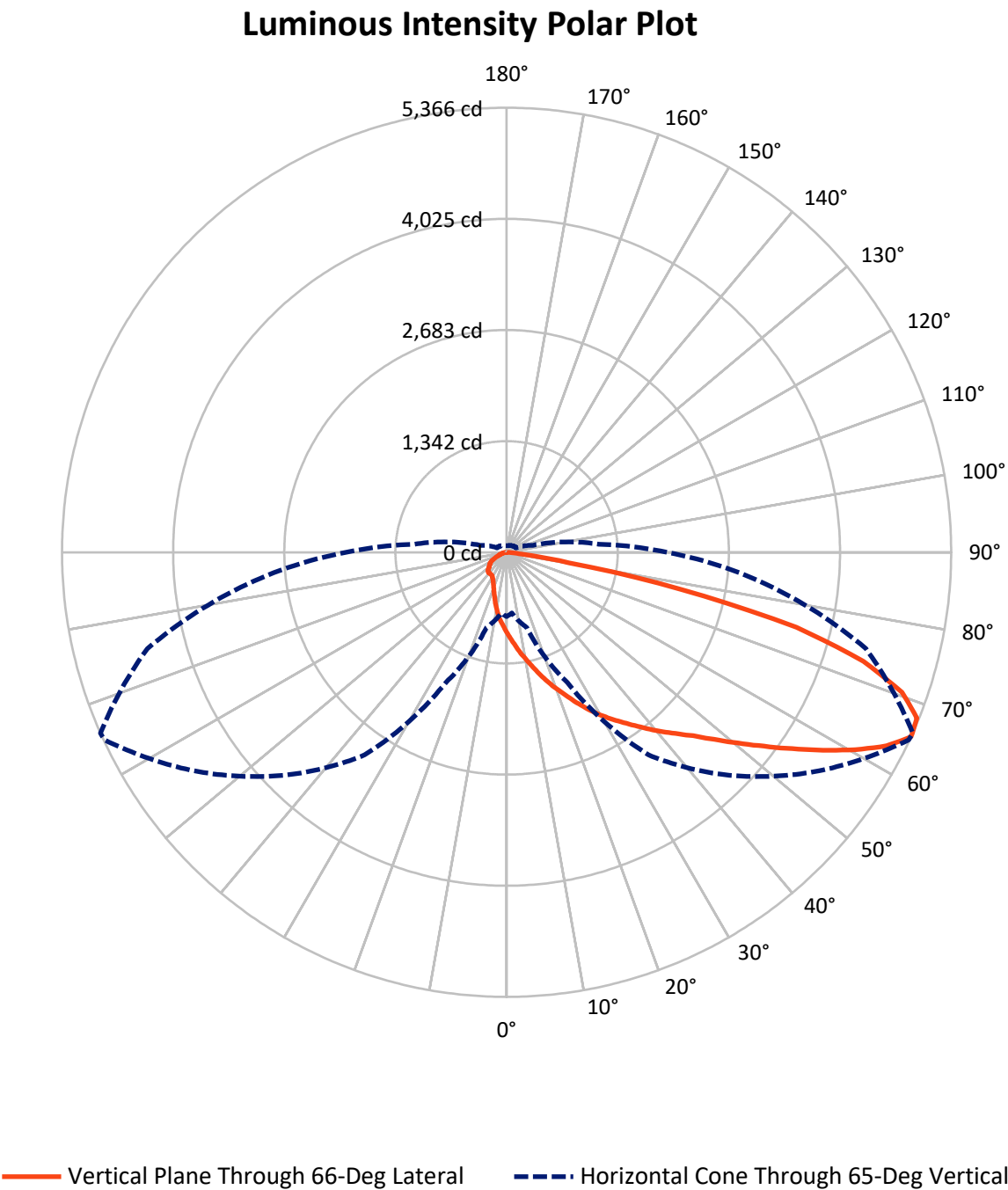
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.2	0.0	781.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6604.8	0.0	6604.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	7386.0	0.0	7386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	1.3
10°-20°	314.5	4.3
20°-30°	568.9	7.7
30°-40°	889.7	12.0
40°-50°	1349.6	18.3
50°-60°	1714.8	23.2
60°-70°	1602.3	21.7
70°-80°	796.3	10.8
80°-90°	53.5	0.7
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°	7386.0	100.0
0°-180°	7386.0	100.0

Coefficient of Utilization



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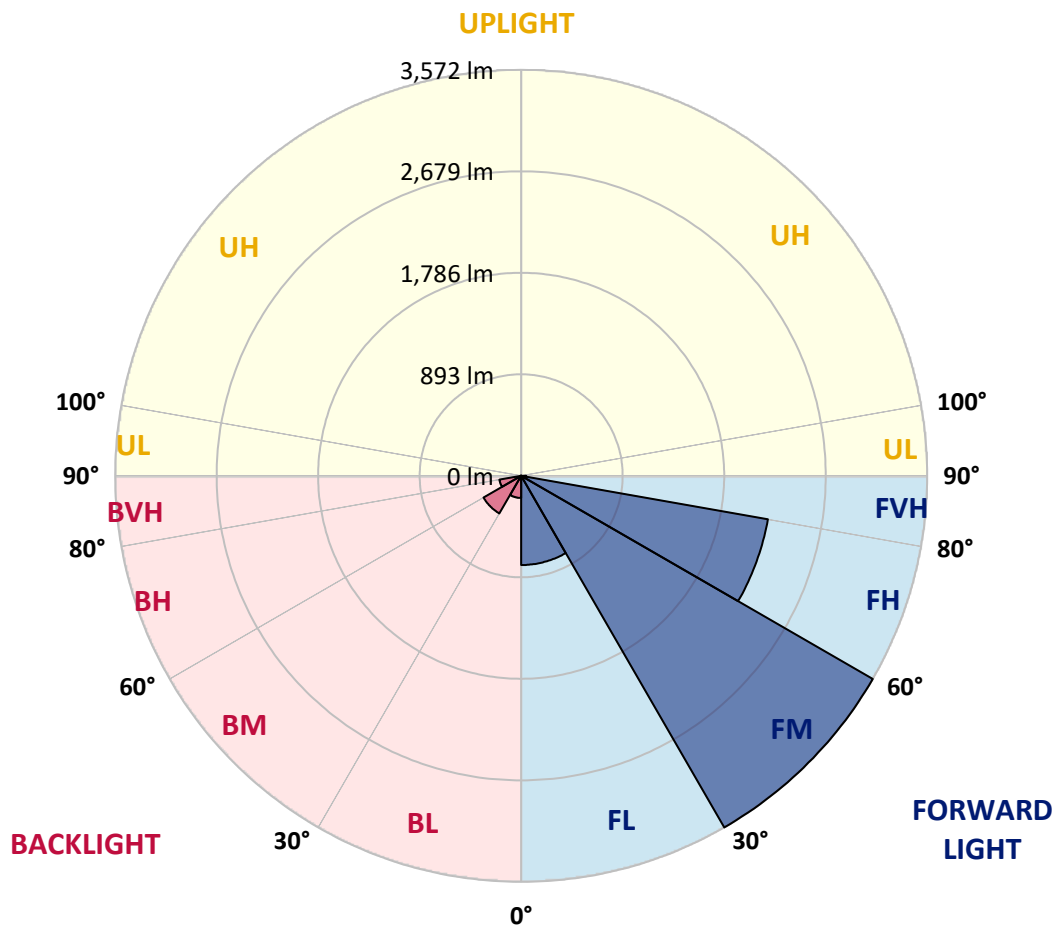
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	784.8	10.6			
FM	(30°-60°)	3572.0	48.4			
FH	(60°-80°)	2204.0	29.8			G2/5000
FVH	(80°-90°)	44.0	0.6			G1/100
BL	(0°-30°)	195.1	2.6	B1/500		
BM	(30°-60°)	382.1	5.2	B1/1000		
BH	(60°-80°)	194.6	2.6	B1/500		G1/500
BVH	(80°-90°)	9.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5
2.5°	1141.7	1151.0	1155.6	1157.2	1121.6	1106.1	1090.6	1055.0	1047.2	1027.1	1000.7
5°	1343.1	1355.5	1352.4	1346.2	1302.8	1253.2	1213.0	1146.4	1135.5	1087.5	1028.6
7.5°	1541.4	1552.2	1549.1	1525.9	1477.9	1408.2	1341.5	1243.9	1228.5	1151.0	1056.5
10°	1707.1	1716.4	1714.9	1691.6	1634.3	1549.1	1468.6	1338.4	1319.9	1209.9	1079.7
12.5°	1843.5	1855.8	1854.3	1838.8	1787.7	1694.7	1603.3	1446.9	1423.6	1281.1	1112.3
15°	1950.3	1965.8	1965.8	1959.6	1924.0	1846.6	1742.8	1566.2	1538.3	1363.2	1152.5
17.5°	2015.4	2027.8	2038.6	2049.5	2024.7	1965.8	1871.3	1685.4	1656.0	1443.8	1194.4
20°	2049.5	2061.9	2069.6	2092.9	2097.5	2068.1	1993.7	1803.2	1772.2	1535.2	1242.4
22.5°	2105.3	2116.1	2117.7	2137.8	2147.1	2154.8	2108.4	1919.4	1894.6	1635.9	1296.6
25°	2198.2	2210.6	2206.0	2215.2	2216.8	2226.1	2221.4	2052.6	2027.8	1750.5	1361.7
27.5°	2317.5	2333.0	2329.9	2320.6	2306.6	2298.9	2319.0	2187.4	2164.1	1865.1	1428.3
30°	2446.1	2464.7	2460.0	2441.4	2404.2	2371.7	2399.6	2314.4	2292.7	1982.9	1502.6
32.5°	2576.2	2597.9	2596.3	2565.3	2501.8	2446.1	2487.9	2433.7	2418.2	2109.9	1583.2
35°	2661.4	2689.3	2686.2	2667.6	2585.5	2537.5	2588.6	2556.1	2545.2	2264.8	1699.4
37.5°	2799.3	2828.7	2802.4	2755.9	2661.4	2636.6	2698.6	2693.9	2686.2	2429.0	1821.8
40°	3133.9	3177.3	3107.5	2917.0	2762.1	2740.4	2828.7	2847.3	2839.5	2591.7	1931.8
42.5°	3484.0	3549.0	3440.6	3177.3	2944.9	2865.9	2971.2	2997.6	2988.3	2731.1	2030.9
45°	3696.2	3724.1	3615.7	3411.2	3268.6	3017.7	3123.0	3166.4	3158.7	2898.4	2157.9
47.5°	3869.7	3858.9	3734.9	3597.1	3623.4	3231.5	3295.0	3380.2	3374.0	3082.8	2297.3
50°	3906.9	3882.1	3832.5	3745.8	3815.5	3448.3	3476.2	3623.4	3617.2	3287.2	2438.3
52.5°	3645.1	3612.6	3747.3	3820.1	3796.9	3606.4	3676.1	3889.8	3886.7	3508.8	2573.1
55°	2991.4	2965.0	3327.5	3704.0	3776.8	3717.9	3897.6	4167.1	4184.2	3744.2	2695.5
57.5°	2353.1	2325.2	2681.5	3412.7	3702.4	3820.1	4156.3	4484.7	4506.4	3999.8	2811.7
60°	1876.0	1834.2	2106.8	2954.2	3563.0	3899.1	4405.7	4833.3	4836.4	4233.8	2882.9
62.5°	1274.9	1228.5	1530.5	2373.3	3329.1	3911.5	4597.8	5133.8	5146.2	4408.8	2895.3
65°	774.6	735.8	940.3	1733.5	2983.6	3806.2	4600.9	5355.3	5366.2	4489.4	2821.0
67.5°	449.2	433.8	537.5	1079.7	2410.4	3522.7	4407.3	5321.2	5341.4	4455.3	2652.1
70°	261.8	260.3	299.0	534.4	1700.9	2960.4	3975.0	5034.6	5064.1	4277.1	2393.4
72.5°	192.1	195.2	210.7	286.6	985.2	2131.6	3366.2	4458.4	4503.3	3928.6	2024.7
75°	151.8	153.4	167.3	195.2	517.4	1205.2	2522.0	3578.5	3614.1	3307.4	1581.7
77.5°	113.1	116.2	127.0	137.9	240.1	553.0	1419.0	2204.4	2145.5	1815.6	763.7
80°	82.1	89.8	94.5	99.1	127.0	213.8	426.0	768.4	762.2	793.2	360.9
82.5°	52.7	58.9	63.5	66.6	75.9	102.2	127.0	172.0	185.9	308.3	144.1
85°	23.2	26.3	29.4	35.6	32.5	35.6	52.7	34.1	29.4	46.5	26.3
87.5°	0.0	0.0	4.6	7.7	6.2	3.1	9.3	6.2	4.6	4.6	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5	977.5
2.5°	986.8	969.8	934.1	900.0	879.9	853.6	830.3	808.6	807.1	800.9	790.1
5°	999.2	966.7	900.0	836.5	788.5	737.4	694.0	659.9	647.5	638.2	625.8
7.5°	1011.6	960.5	861.3	768.4	692.5	621.2	570.1	523.6	509.7	497.3	489.5
10°	1016.2	949.6	816.4	692.5	593.3	517.4	463.2	429.1	416.7	410.5	405.9
12.5°	1030.2	943.4	774.6	621.2	506.6	436.9	398.1	378.0	373.3	368.7	364.0
15°	1048.8	943.4	732.7	551.5	438.4	382.6	359.4	345.5	342.4	340.8	337.7
17.5°	1068.9	943.4	692.5	492.6	388.8	347.0	330.0	322.2	320.7	319.1	317.6
20°	1096.8	945.0	649.1	441.5	353.2	320.7	306.7	297.4	295.9	294.3	294.3
22.5°	1124.7	948.1	607.3	402.8	330.0	300.5	283.5	274.2	271.1	271.1	271.1
25°	1160.3	957.4	568.5	370.2	309.8	281.9	260.3	252.5	251.0	251.0	249.4
27.5°	1202.1	968.2	534.4	345.5	289.7	260.3	238.6	230.8	227.7	227.7	226.2
30°	1247.0	979.0	506.6	326.9	269.5	238.6	218.4	209.1	206.0	207.6	206.0
32.5°	1296.6	994.5	484.9	314.5	251.0	220.0	201.4	190.5	189.0	189.0	187.4
35°	1380.3	1037.9	481.8	308.3	235.5	206.0	187.4	176.6	175.1	175.1	173.5
37.5°	1470.1	1087.5	495.7	305.2	223.1	193.6	176.6	165.8	164.2	164.2	164.2
40°	1546.0	1124.7	511.2	305.2	215.3	182.8	167.3	158.0	158.0	158.0	158.0
42.5°	1597.1	1127.8	508.1	305.2	209.1	175.1	161.1	151.8	151.8	153.4	151.8
45°	1673.1	1143.3	495.7	300.5	204.5	168.9	154.9	147.2	145.6	147.2	147.2
47.5°	1762.9	1171.1	483.3	281.9	202.9	162.7	150.3	141.0	139.4	141.0	139.4
50°	1848.1	1195.9	477.1	257.2	199.8	156.5	144.1	134.8	133.2	134.8	133.2
52.5°	1919.4	1206.8	466.3	240.1	192.1	150.3	137.9	128.6	125.5	127.0	127.0
55°	1976.7	1203.7	450.8	226.2	178.1	144.1	130.1	122.4	117.7	117.7	116.2
57.5°	2029.4	1205.2	436.9	212.2	162.7	134.8	123.9	114.6	108.4	106.9	105.3
60°	2049.5	1197.5	412.1	193.6	147.2	127.0	116.2	105.3	99.1	97.6	96.0
62.5°	2021.6	1169.6	379.5	161.1	133.2	117.7	108.4	97.6	91.4	89.8	88.3
65°	1942.6	1116.9	330.0	127.0	120.8	106.9	99.1	91.4	83.7	80.6	79.0
67.5°	1807.8	1041.0	268.0	102.2	106.9	97.6	92.9	83.7	74.4	71.3	69.7
70°	1615.7	940.3	201.4	86.8	94.5	86.8	83.7	74.4	66.6	63.5	62.0
72.5°	1346.2	777.7	141.0	74.4	82.1	75.9	72.8	66.6	58.9	54.2	54.2
75°	1017.8	557.7	92.9	63.5	68.2	65.1	60.4	55.8	51.1	48.0	46.5
77.5°	438.4	216.9	57.3	48.0	55.8	54.2	48.0	44.9	43.4	40.3	40.3
80°	189.0	88.3	35.6	35.6	40.3	38.7	37.2	34.1	34.1	32.5	31.0
82.5°	69.7	35.6	21.7	26.3	29.4	26.3	26.3	26.3	26.3	24.8	24.8
85°	17.0	10.8	10.8	15.5	17.0	15.5	17.0	15.5	15.5	15.5	13.9
87.5°	4.6	4.6	6.2	6.2	6.2	6.2	6.2	4.6	0.0	0.0	0.0
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)