

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: P799862

Luminaire Tested: **ARCH2-60-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799862
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: ARCH2-60-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 485mA 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: 5415 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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

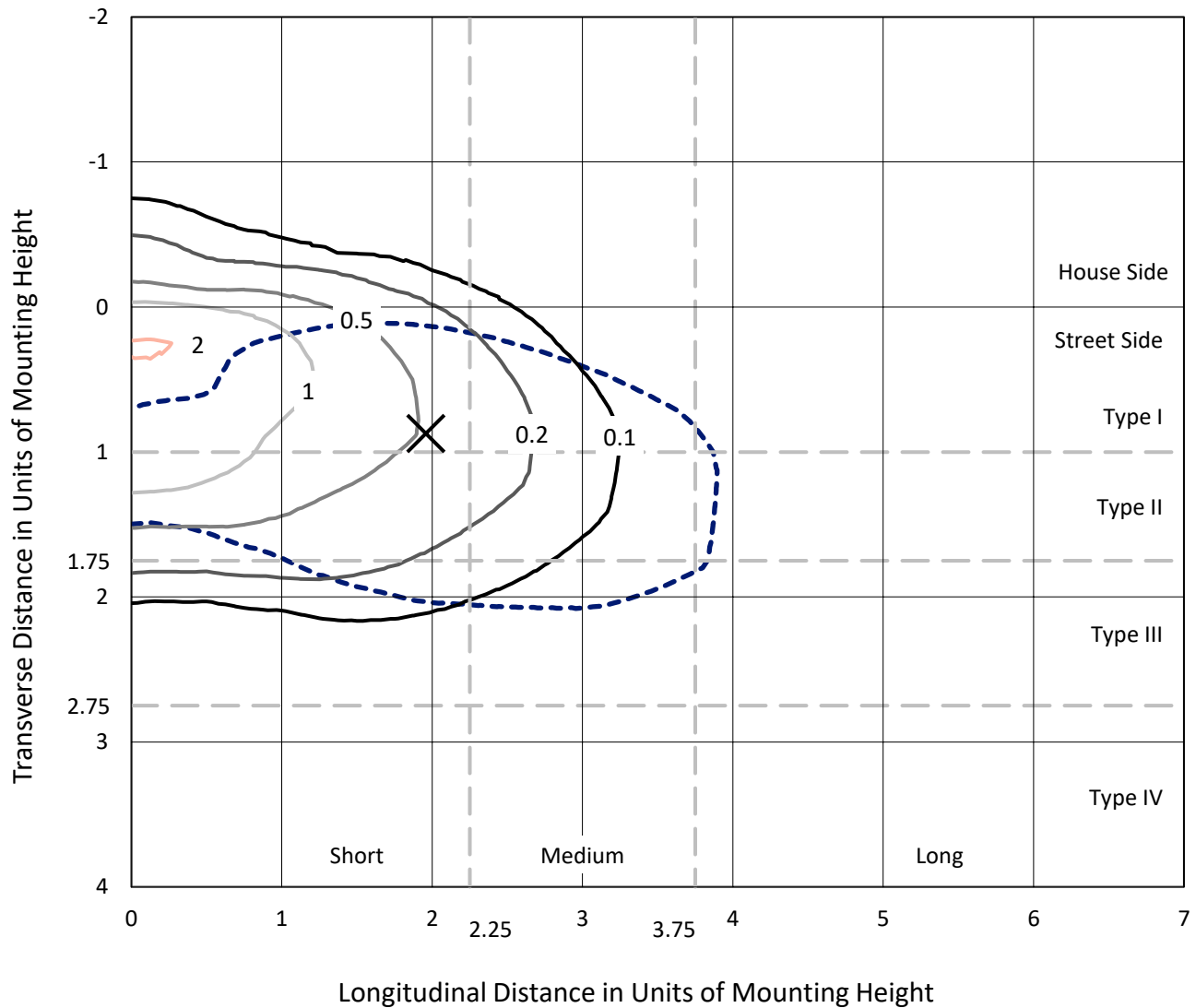


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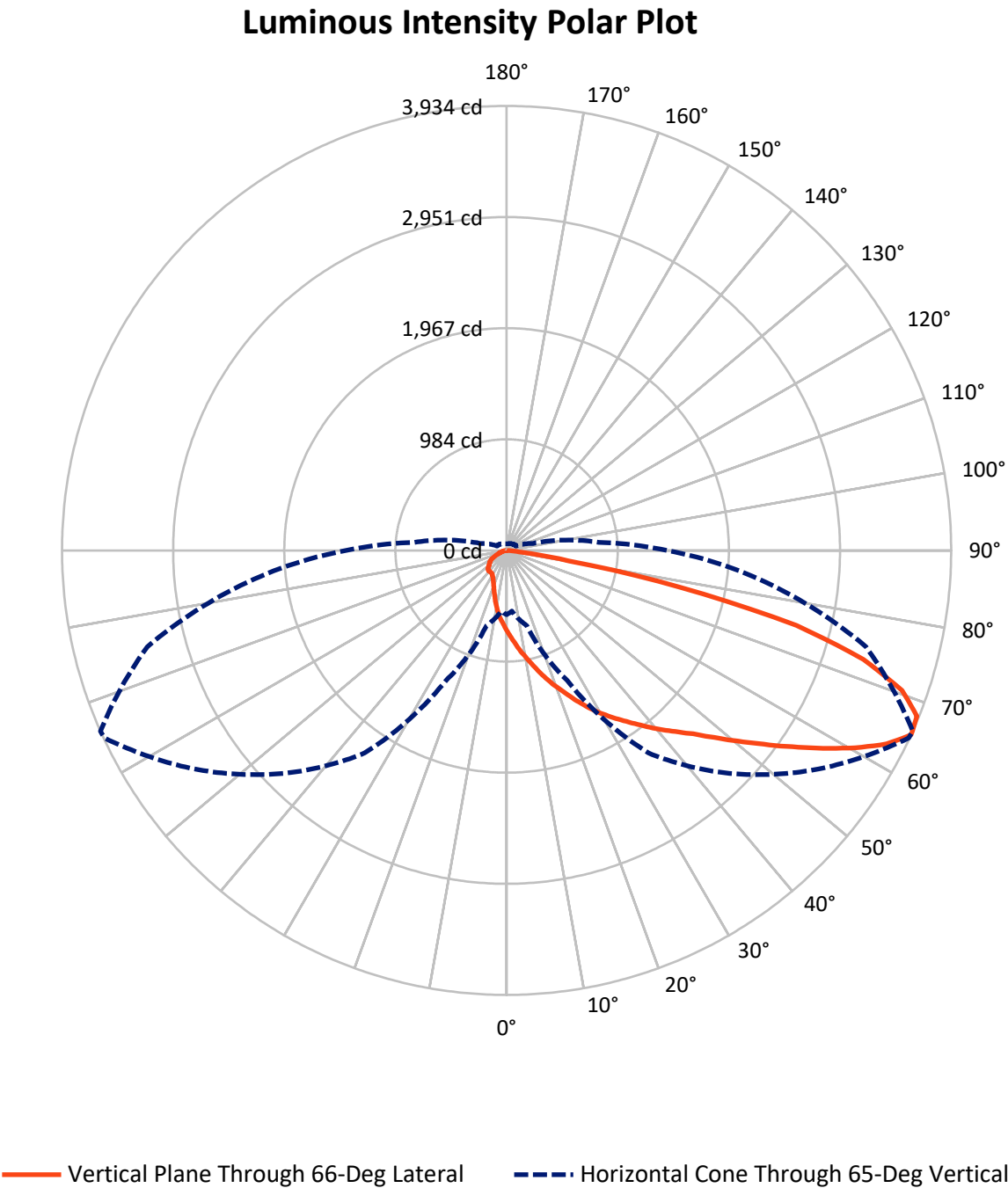
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	572.8	0.0	572.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4842.2	0.0	4842.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	5415.0	0.0	5415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.3
10°-20°	230.5	4.3
20°-30°	417.1	7.7
30°-40°	652.3	12.0
40°-50°	989.5	18.3
50°-60°	1257.2	23.2
60°-70°	1174.7	21.7
70°-80°	583.8	10.8
80°-90°	39.2	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°	5415.0	100.0
0°-180°	5415.0	100.0

Coefficient of Utilization



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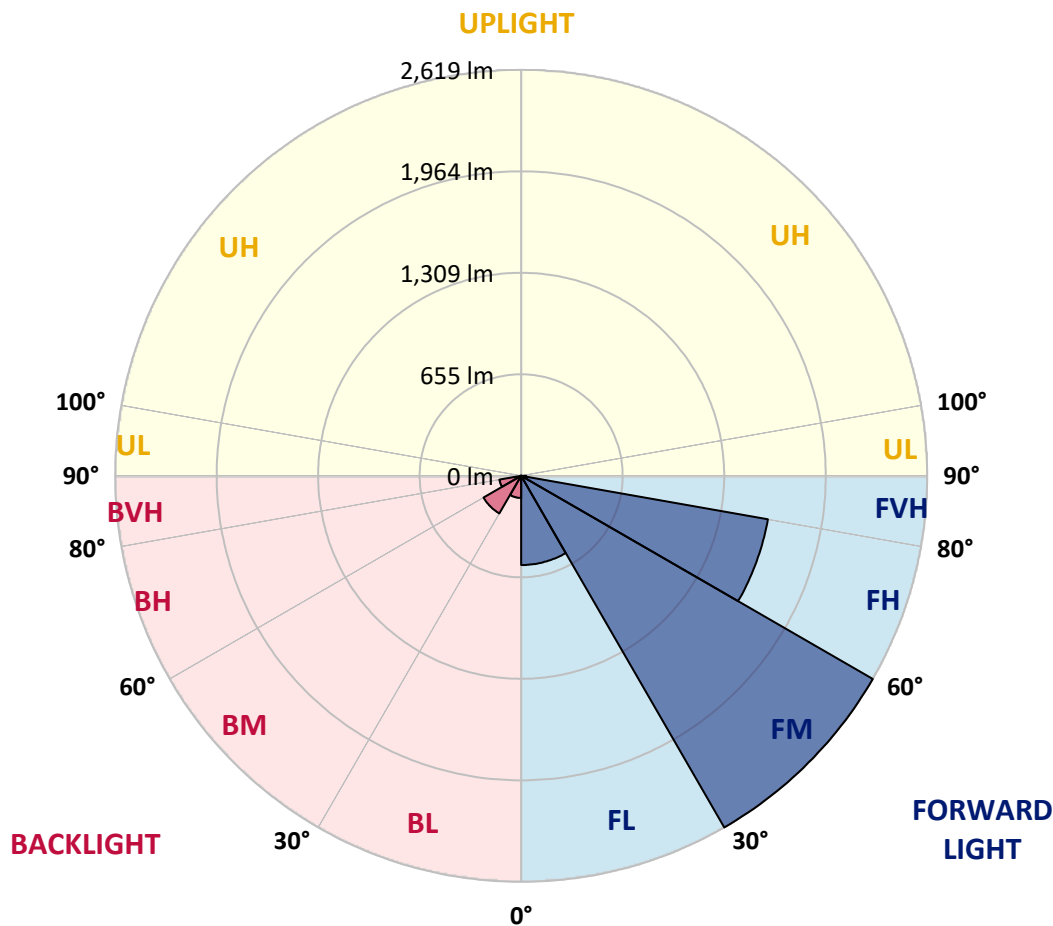
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.3	10.6			
FM	(30°-60°)	2618.8	48.4			
FH	(60°-80°)	1615.9	29.8			G1/1800
FVH	(80°-90°)	32.3	0.6			G1/100
BL	(0°-30°)	143.0	2.6	B1/500		
BM	(30°-60°)	280.1	5.2	B1/1000		
BH	(60°-80°)	142.6	2.6	B1/500		G1/500
BVH	(80°-90°)	6.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6
2.5°	837.0	843.8	847.3	848.4	822.3	810.9	799.6	773.4	767.8	753.0	733.7
5°	984.7	993.8	991.5	986.9	955.1	918.8	889.3	840.4	832.5	797.3	754.1
7.5°	1130.1	1138.0	1135.7	1118.7	1083.5	1032.4	983.5	912.0	900.6	843.8	774.6
10°	1251.6	1258.4	1257.3	1240.2	1198.2	1135.7	1076.7	981.3	967.6	887.0	791.6
12.5°	1351.5	1360.6	1359.5	1348.1	1310.6	1242.5	1175.5	1060.8	1043.7	939.2	815.5
15°	1429.9	1441.2	1441.2	1436.7	1410.6	1353.8	1277.7	1148.2	1127.8	999.4	845.0
17.5°	1477.6	1486.7	1494.6	1502.6	1484.4	1441.2	1372.0	1235.7	1214.1	1058.5	875.6
20°	1502.6	1511.7	1517.3	1534.4	1537.8	1516.2	1461.7	1322.0	1299.3	1125.5	910.9
22.5°	1543.5	1551.4	1552.5	1567.3	1574.1	1579.8	1545.7	1407.2	1389.0	1199.3	950.6
25°	1611.6	1620.7	1617.3	1624.1	1625.2	1632.0	1628.6	1504.8	1486.7	1283.4	998.3
27.5°	1699.1	1710.4	1708.1	1701.3	1691.1	1685.4	1700.2	1603.7	1586.6	1367.4	1047.1
30°	1793.3	1806.9	1803.5	1789.9	1762.7	1738.8	1759.2	1696.8	1680.9	1453.7	1101.7
32.5°	1888.7	1904.6	1903.5	1880.8	1834.2	1793.3	1824.0	1784.2	1772.9	1546.9	1160.7
35°	1951.2	1971.6	1969.4	1955.7	1895.5	1860.3	1897.8	1874.0	1866.0	1660.4	1245.9
37.5°	2052.3	2073.8	2054.5	2020.5	1951.2	1933.0	1978.4	1975.0	1969.4	1780.8	1335.6
40°	2297.6	2329.4	2278.3	2138.6	2025.0	2009.1	2073.8	2087.5	2081.8	1900.1	1416.3
42.5°	2554.3	2602.0	2522.5	2329.4	2159.0	2101.1	2178.3	2197.6	2190.8	2002.3	1488.9
45°	2709.9	2730.3	2650.8	2500.9	2396.4	2212.4	2289.6	2321.4	2315.8	2125.0	1582.1
47.5°	2837.1	2829.1	2738.2	2637.2	2656.5	2369.1	2415.7	2478.2	2473.6	2260.1	1684.3
50°	2864.3	2846.1	2809.8	2746.2	2797.3	2528.1	2548.6	2656.5	2651.9	2410.0	1787.6
52.5°	2672.4	2648.5	2747.3	2800.7	2783.7	2644.0	2695.1	2851.8	2849.5	2572.4	1886.4
55°	2193.1	2173.8	2439.5	2715.5	2768.9	2725.8	2857.5	3055.1	3067.6	2745.1	1976.2
57.5°	1725.2	1704.7	1965.9	2502.0	2714.4	2800.7	3047.2	3287.9	3303.8	2932.5	2061.3
60°	1375.4	1344.7	1544.6	2165.8	2612.2	2858.6	3230.0	3543.5	3545.7	3103.9	2113.6
62.5°	934.7	900.6	1122.1	1739.9	2440.7	2867.7	3370.8	3763.8	3772.9	3232.3	2122.7
65°	567.9	539.5	689.4	1270.9	2187.4	2790.5	3373.1	3926.2	3934.2	3291.3	2068.2
67.5°	329.4	318.0	394.1	791.6	1767.2	2582.6	3231.2	3901.2	3916.0	3266.4	1944.4
70°	191.9	190.8	219.2	391.8	1247.0	2170.4	2914.3	3691.1	3712.7	3135.8	1754.7
72.5°	140.8	143.1	154.5	210.1	722.3	1562.8	2467.9	3268.6	3301.6	2880.2	1484.4
75°	111.3	112.4	122.7	143.1	379.3	883.6	1849.0	2623.5	2649.7	2424.8	1159.6
77.5°	82.9	85.2	93.1	101.1	176.0	405.5	1040.3	1616.1	1573.0	1331.1	559.9
80°	60.2	65.9	69.3	72.7	93.1	156.7	312.3	563.3	558.8	581.5	264.6
82.5°	38.6	43.2	46.6	48.8	55.7	75.0	93.1	126.1	136.3	226.0	105.6
85°	17.0	19.3	21.6	26.1	23.9	26.1	38.6	25.0	21.6	34.1	19.3
87.5°	0.0	0.0	3.4	5.7	4.5	2.3	6.8	4.5	3.4	3.4	3.4
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°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6
2.5°	723.5	711.0	684.8	659.9	645.1	625.8	608.8	592.9	591.7	587.2	579.2
5°	732.5	708.7	659.9	613.3	578.1	540.6	508.8	483.8	474.7	467.9	458.8
7.5°	741.6	704.2	631.5	563.3	507.7	455.4	417.9	383.9	373.7	364.6	358.9
10°	745.0	696.2	598.5	507.7	435.0	379.3	339.6	314.6	305.5	301.0	297.6
12.5°	755.3	691.7	567.9	455.4	371.4	320.3	291.9	277.1	273.7	270.3	266.9
15°	768.9	691.7	537.2	404.3	321.4	280.5	263.5	253.3	251.0	249.9	247.6
17.5°	783.7	691.7	507.7	361.2	285.1	254.4	241.9	236.2	235.1	234.0	232.8
20°	804.1	692.8	475.9	323.7	258.9	235.1	224.9	218.1	216.9	215.8	215.8
22.5°	824.5	695.1	445.2	295.3	241.9	220.3	207.8	201.0	198.8	198.8	198.8
25°	850.7	701.9	416.8	271.4	227.1	206.7	190.8	185.1	184.0	184.0	182.9
27.5°	881.3	709.8	391.8	253.3	212.4	190.8	174.9	169.2	167.0	167.0	165.8
30°	914.3	717.8	371.4	239.6	197.6	174.9	160.1	153.3	151.1	152.2	151.1
32.5°	950.6	729.1	355.5	230.6	184.0	161.3	147.6	139.7	138.6	138.6	137.4
35°	1011.9	760.9	353.2	226.0	172.6	151.1	137.4	129.5	128.3	128.3	127.2
37.5°	1077.8	797.3	363.4	223.7	163.5	142.0	129.5	121.5	120.4	120.4	120.4
40°	1133.5	824.5	374.8	223.7	157.9	134.0	122.7	115.8	115.8	115.8	115.8
42.5°	1170.9	826.8	372.5	223.7	153.3	128.3	118.1	111.3	111.3	112.4	111.3
45°	1226.6	838.2	363.4	220.3	149.9	123.8	113.6	107.9	106.8	107.9	107.9
47.5°	1292.5	858.6	354.3	206.7	148.8	119.3	110.2	103.4	102.2	103.4	102.2
50°	1354.9	876.8	349.8	188.5	146.5	114.7	105.6	98.8	97.7	98.8	97.7
52.5°	1407.2	884.7	341.9	176.0	140.8	110.2	101.1	94.3	92.0	93.1	93.1
55°	1449.2	882.5	330.5	165.8	130.6	105.6	95.4	89.7	86.3	86.3	85.2
57.5°	1487.8	883.6	320.3	155.6	119.3	98.8	90.9	84.0	79.5	78.4	77.2
60°	1502.6	877.9	302.1	142.0	107.9	93.1	85.2	77.2	72.7	71.6	70.4
62.5°	1482.1	857.5	278.3	118.1	97.7	86.3	79.5	71.6	67.0	65.9	64.7
65°	1424.2	818.9	241.9	93.1	88.6	78.4	72.7	67.0	61.3	59.1	57.9
67.5°	1325.4	763.2	196.5	75.0	78.4	71.6	68.1	61.3	54.5	52.2	51.1
70°	1184.6	689.4	147.6	63.6	69.3	63.6	61.3	54.5	48.8	46.6	45.4
72.5°	986.9	570.1	103.4	54.5	60.2	55.7	53.4	48.8	43.2	39.8	39.8
75°	746.2	408.9	68.1	46.6	50.0	47.7	44.3	40.9	37.5	35.2	34.1
77.5°	321.4	159.0	42.0	35.2	40.9	39.8	35.2	32.9	31.8	29.5	29.5
80°	138.6	64.7	26.1	26.1	29.5	28.4	27.3	25.0	25.0	23.9	22.7
82.5°	51.1	26.1	15.9	19.3	21.6	19.3	19.3	19.3	19.3	18.2	18.2
85°	12.5	8.0	8.0	11.4	12.5	11.4	12.5	11.4	11.4	11.4	10.2
87.5°	3.4	3.4	4.5	4.5	4.5	4.5	4.5	3.4	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)