

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: P799350

Luminaire Tested: **ARCH2-110-722-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799350
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: ARCH2-110-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA 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: 7975 lumens
Efficiency: N/A
Efficacy: 72.8 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): 109.5
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

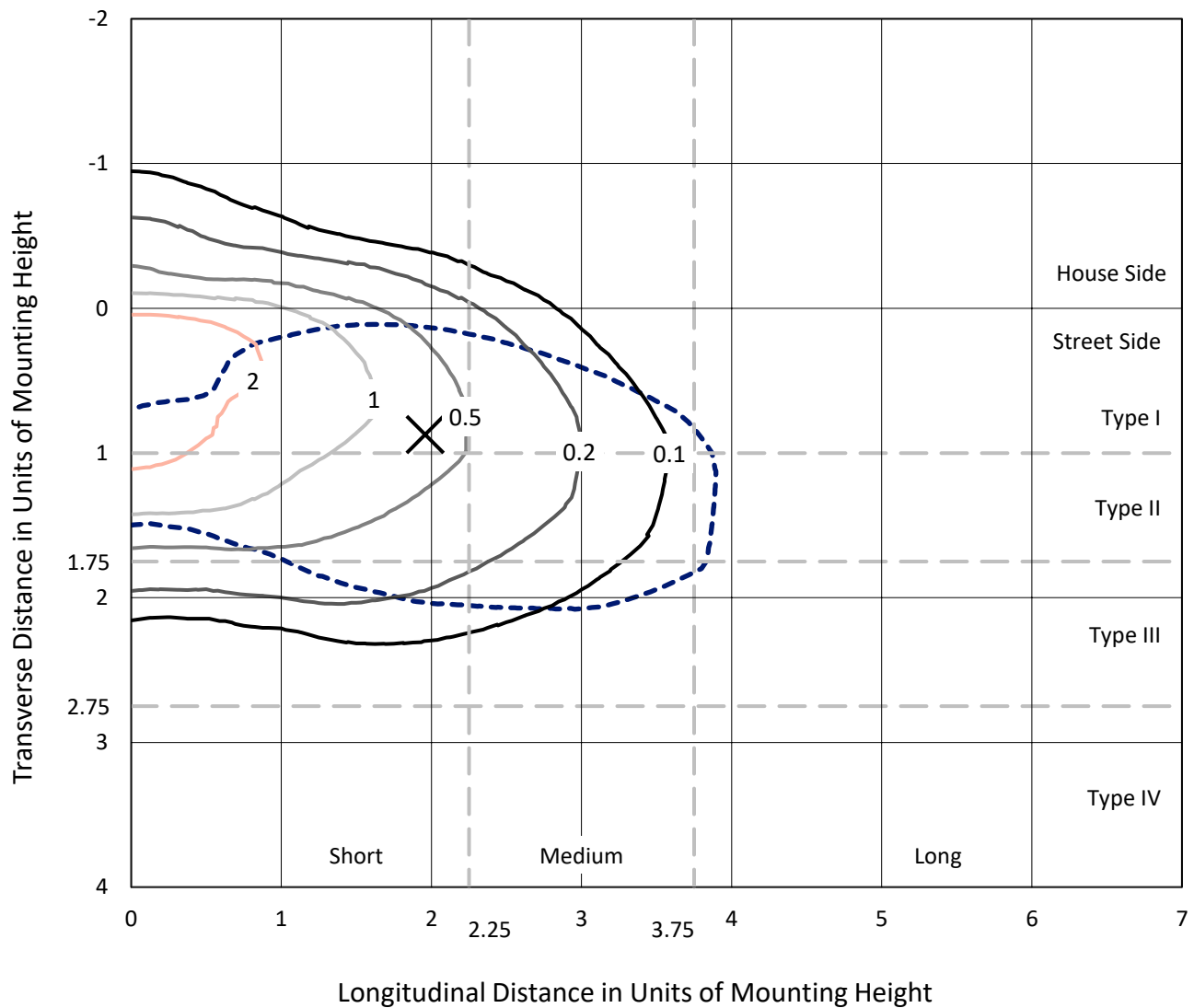


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

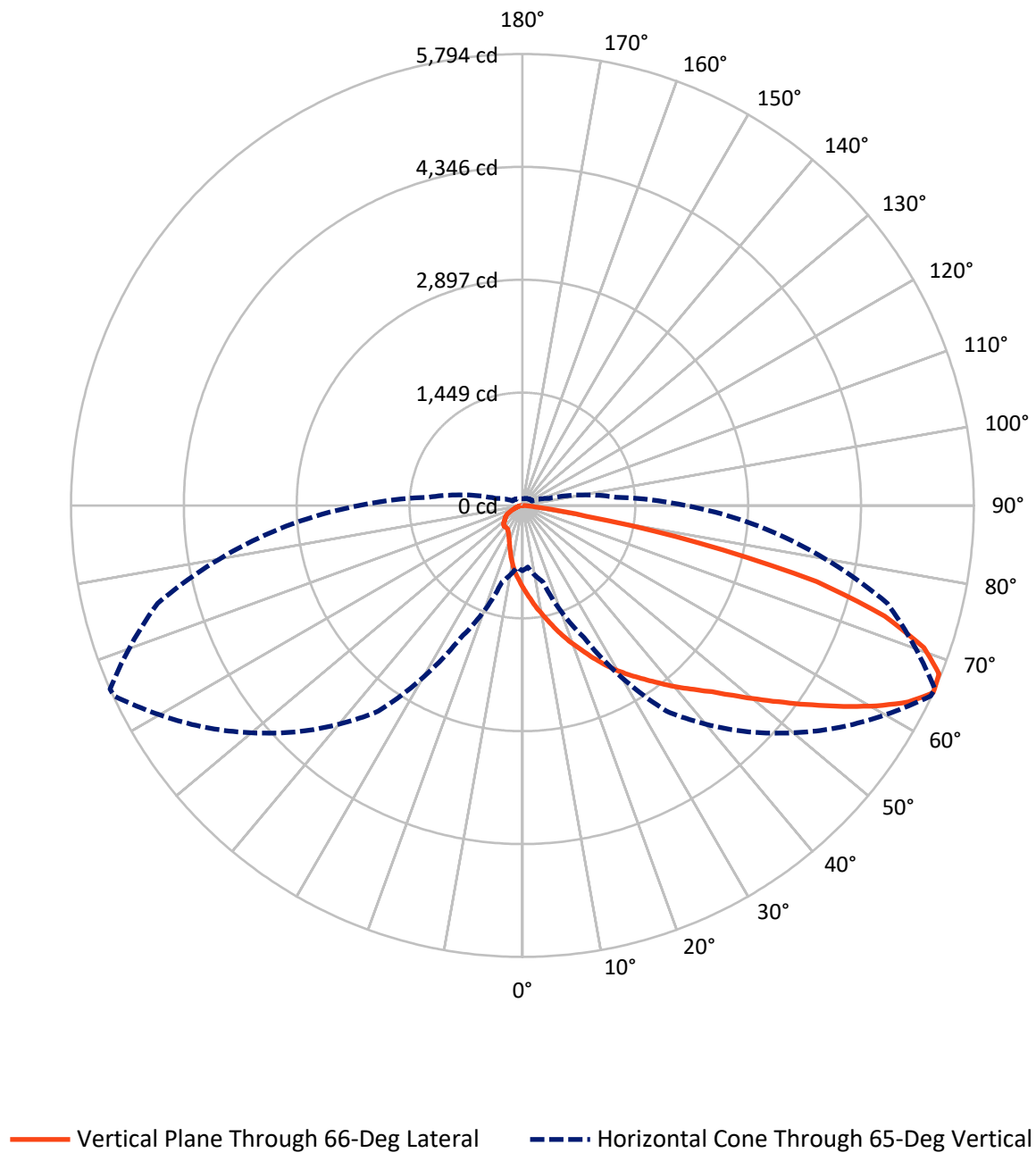


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.5	0.0	843.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7131.5	0.0	7131.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	7975.0	0.0	7975.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.3
10°-20°	339.5	4.3
20°-30°	614.3	7.7
30°-40°	960.6	12.0
40°-50°	1457.3	18.3
50°-60°	1851.5	23.2
60°-70°	1730.0	21.7
70°-80°	859.8	10.8
80°-90°	57.8	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°	7975.0	100.0
0°-180°	7975.0	100.0

Coefficient of Utilization



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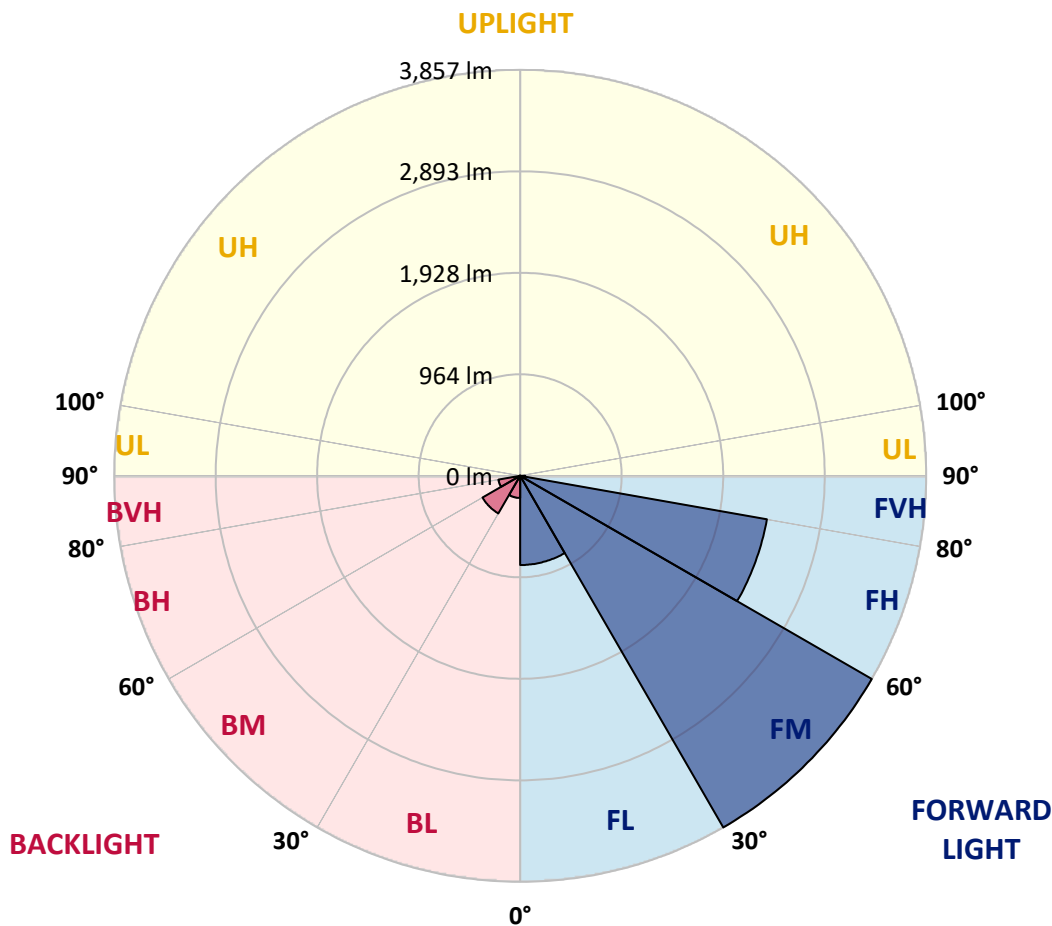
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	847.3	10.6			
FM	(30°-60°)	3856.8	48.4			
FH	(60°-80°)	2379.8	29.8			G2/5000
FVH	(80°-90°)	47.5	0.6			G1/100
BL	(0°-30°)	210.7	2.6	B1/500		
BM	(30°-60°)	412.6	5.2	B1/1000		
BH	(60°-80°)	210.1	2.6	B1/500		G1/500
BVH	(80°-90°)	10.2	0.1			G1/100
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°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1232.7	1242.8	1247.8	1249.5	1211.0	1194.3	1177.6	1139.1	1130.7	1109.0	1080.5
5°	1450.2	1463.6	1460.2	1453.5	1406.7	1353.2	1309.7	1237.8	1226.1	1174.2	1110.6
7.5°	1664.3	1676.0	1672.7	1647.6	1595.7	1520.4	1448.5	1343.1	1326.4	1242.8	1140.8
10°	1843.3	1853.3	1851.6	1826.5	1764.7	1672.7	1585.7	1445.2	1425.1	1306.3	1165.8
12.5°	1990.5	2003.8	2002.2	1985.4	1930.2	1829.9	1731.2	1562.3	1537.2	1383.3	1201.0
15°	2105.9	2122.6	2122.6	2115.9	2077.4	1993.8	1881.7	1691.1	1660.9	1471.9	1244.5
17.5°	2176.1	2189.5	2201.2	2212.9	2186.2	2122.6	2020.6	1819.9	1788.1	1558.9	1289.6
20°	2212.9	2226.3	2234.7	2259.8	2264.8	2233.0	2152.7	1947.0	1913.5	1657.6	1341.5
22.5°	2273.1	2284.9	2286.5	2308.3	2318.3	2326.7	2276.5	2072.4	2045.7	1766.3	1400.0
25°	2373.5	2386.9	2381.9	2391.9	2393.6	2403.6	2398.6	2216.3	2189.5	1890.1	1470.3
27.5°	2502.3	2519.0	2515.7	2505.6	2490.6	2482.2	2504.0	2361.8	2336.7	2013.9	1542.2
30°	2641.1	2661.2	2656.2	2636.1	2596.0	2560.8	2590.9	2499.0	2475.5	2141.0	1622.5
32.5°	2781.6	2805.0	2803.4	2769.9	2701.3	2641.1	2686.3	2627.7	2611.0	2278.2	1709.5
35°	2873.6	2903.7	2900.4	2880.3	2791.7	2739.8	2795.0	2759.9	2748.2	2445.4	1834.9
37.5°	3022.5	3054.3	3025.8	2975.7	2873.6	2846.9	2913.8	2908.8	2900.4	2622.7	1967.0
40°	3383.8	3430.6	3355.4	3149.6	2982.4	2958.9	3054.3	3074.3	3066.0	2798.4	2085.8
42.5°	3761.8	3832.1	3715.0	3430.6	3179.7	3094.4	3208.2	3236.6	3226.6	2948.9	2192.9
45°	3991.0	4021.1	3904.0	3683.2	3529.3	3258.3	3372.1	3418.9	3410.6	3129.5	2330.0
47.5°	4178.3	4166.6	4032.8	3883.9	3912.3	3489.2	3557.7	3649.7	3643.1	3328.6	2480.6
50°	4218.4	4191.7	4138.2	4044.5	4119.8	3723.3	3753.4	3912.3	3905.7	3549.4	2632.8
52.5°	3935.8	3900.6	4046.2	4124.8	4099.7	3893.9	3969.2	4200.0	4196.7	3788.6	2778.3
55°	3229.9	3201.5	3592.9	3999.3	4077.9	4014.4	4208.4	4499.5	4517.9	4042.8	2910.4
57.5°	2540.8	2510.7	2895.4	3684.9	3997.7	4124.8	4487.7	4842.3	4865.8	4318.8	3035.9
60°	2025.6	1980.4	2274.8	3189.8	3847.1	4210.1	4757.0	5218.7	5222.0	4571.4	3112.8
62.5°	1376.6	1326.4	1652.6	2562.5	3594.5	4223.5	4964.5	5543.2	5556.6	4760.4	3126.2
65°	836.3	794.5	1015.3	1871.7	3221.5	4109.7	4967.8	5782.4	5794.1	4847.4	3045.9
67.5°	485.1	468.3	580.4	1165.8	2602.7	3803.6	4758.7	5745.6	5767.3	4810.6	2863.6
70°	282.7	281.0	322.8	577.1	1836.6	3196.5	4292.0	5436.1	5467.9	4618.2	2584.3
72.5°	207.4	210.8	227.5	309.4	1063.8	2301.6	3634.7	4813.9	4862.4	4241.9	2186.2
75°	163.9	165.6	180.6	210.8	558.7	1301.3	2723.1	3863.8	3902.3	3571.1	1707.8
77.5°	122.1	125.4	137.2	148.9	259.3	597.1	1532.2	2380.2	2316.6	1960.4	824.6
80°	88.7	97.0	102.0	107.1	137.2	230.8	460.0	829.6	822.9	856.4	389.7
82.5°	56.9	63.6	68.6	71.9	82.0	110.4	137.2	185.7	200.7	332.9	155.6
85°	25.1	28.4	31.8	38.5	35.1	38.5	56.9	36.8	31.8	50.2	28.4
87.5°	0.0	0.0	5.0	8.4	6.7	3.3	10.0	6.7	5.0	5.0	5.0
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°	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4	1055.4
2.5°	1065.5	1047.1	1008.6	971.8	950.1	921.6	896.5	873.1	871.5	864.8	853.1
5°	1078.9	1043.7	971.8	903.2	851.4	796.2	749.4	712.6	699.2	689.1	675.8
7.5°	1092.2	1037.0	930.0	829.6	747.7	670.7	615.5	565.4	550.3	536.9	528.6
10°	1097.3	1025.3	881.5	747.7	640.6	558.7	500.1	463.3	449.9	443.3	438.2
12.5°	1112.3	1018.6	836.3	670.7	547.0	471.7	429.9	408.1	403.1	398.1	393.1
15°	1132.4	1018.6	791.2	595.5	473.4	413.1	388.1	373.0	369.7	368.0	364.6
17.5°	1154.1	1018.6	747.7	531.9	419.8	374.7	356.3	347.9	346.2	344.6	342.9
20°	1184.2	1020.3	700.8	476.7	381.4	346.2	331.2	321.2	319.5	317.8	317.8
22.5°	1214.4	1023.7	655.7	434.9	356.3	324.5	306.1	296.1	292.7	292.7	292.7
25°	1252.8	1033.7	613.9	399.8	334.5	304.4	281.0	272.6	271.0	271.0	269.3
27.5°	1298.0	1045.4	577.1	373.0	312.8	281.0	257.6	249.2	245.9	245.9	244.2
30°	1346.5	1057.1	547.0	352.9	291.0	257.6	235.8	225.8	222.5	224.1	222.5
32.5°	1400.0	1073.8	523.5	339.5	271.0	237.5	217.4	205.7	204.1	204.1	202.4
35°	1490.3	1120.7	520.2	332.9	254.2	222.5	202.4	190.7	189.0	189.0	187.3
37.5°	1587.4	1174.2	535.3	329.5	240.9	209.1	190.7	179.0	177.3	177.3	177.3
40°	1669.3	1214.4	552.0	329.5	232.5	197.4	180.6	170.6	170.6	170.6	170.6
42.5°	1724.5	1217.7	548.6	329.5	225.8	189.0	174.0	163.9	163.9	165.6	163.9
45°	1806.5	1234.4	535.3	324.5	220.8	182.3	167.3	158.9	157.2	158.9	158.9
47.5°	1903.5	1264.5	521.9	304.4	219.1	175.6	162.2	152.2	150.5	152.2	150.5
50°	1995.5	1291.3	515.2	277.7	215.8	168.9	155.6	145.5	143.8	145.5	143.8
52.5°	2072.4	1303.0	503.5	259.3	207.4	162.2	148.9	138.8	135.5	137.2	137.2
55°	2134.3	1299.7	486.7	244.2	192.4	155.6	140.5	132.1	127.1	127.1	125.4
57.5°	2191.2	1301.3	471.7	229.2	175.6	145.5	133.8	123.8	117.1	115.4	113.7
60°	2212.9	1293.0	444.9	209.1	158.9	137.2	125.4	113.7	107.1	105.4	103.7
62.5°	2182.8	1262.9	409.8	174.0	143.8	127.1	117.1	105.4	98.7	97.0	95.3
65°	2097.5	1206.0	356.3	137.2	130.5	115.4	107.1	98.7	90.3	87.0	85.3
67.5°	1952.0	1124.0	289.4	110.4	115.4	105.4	100.4	90.3	80.3	76.9	75.3
70°	1744.6	1015.3	217.4	93.7	102.0	93.7	90.3	80.3	71.9	68.6	66.9
72.5°	1453.5	839.7	152.2	80.3	88.7	82.0	78.6	71.9	63.6	58.5	58.5
75°	1098.9	602.2	100.4	68.6	73.6	70.3	65.2	60.2	55.2	51.9	50.2
77.5°	473.4	234.2	61.9	51.9	60.2	58.5	51.9	48.5	46.8	43.5	43.5
80°	204.1	95.3	38.5	38.5	43.5	41.8	40.1	36.8	36.8	35.1	33.5
82.5°	75.3	38.5	23.4	28.4	31.8	28.4	28.4	28.4	28.4	26.8	26.8
85°	18.4	11.7	11.7	16.7	18.4	16.7	18.4	16.7	16.7	16.7	15.1
87.5°	5.0	5.0	6.7	6.7	6.7	6.7	6.7	5.0	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)