

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: P800278

Luminaire Tested: **ARCH2-90-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800278
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: ARCH2-90-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA 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: 8258 lumens
Efficiency: N/A
Efficacy: 88.1 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): 93.7
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



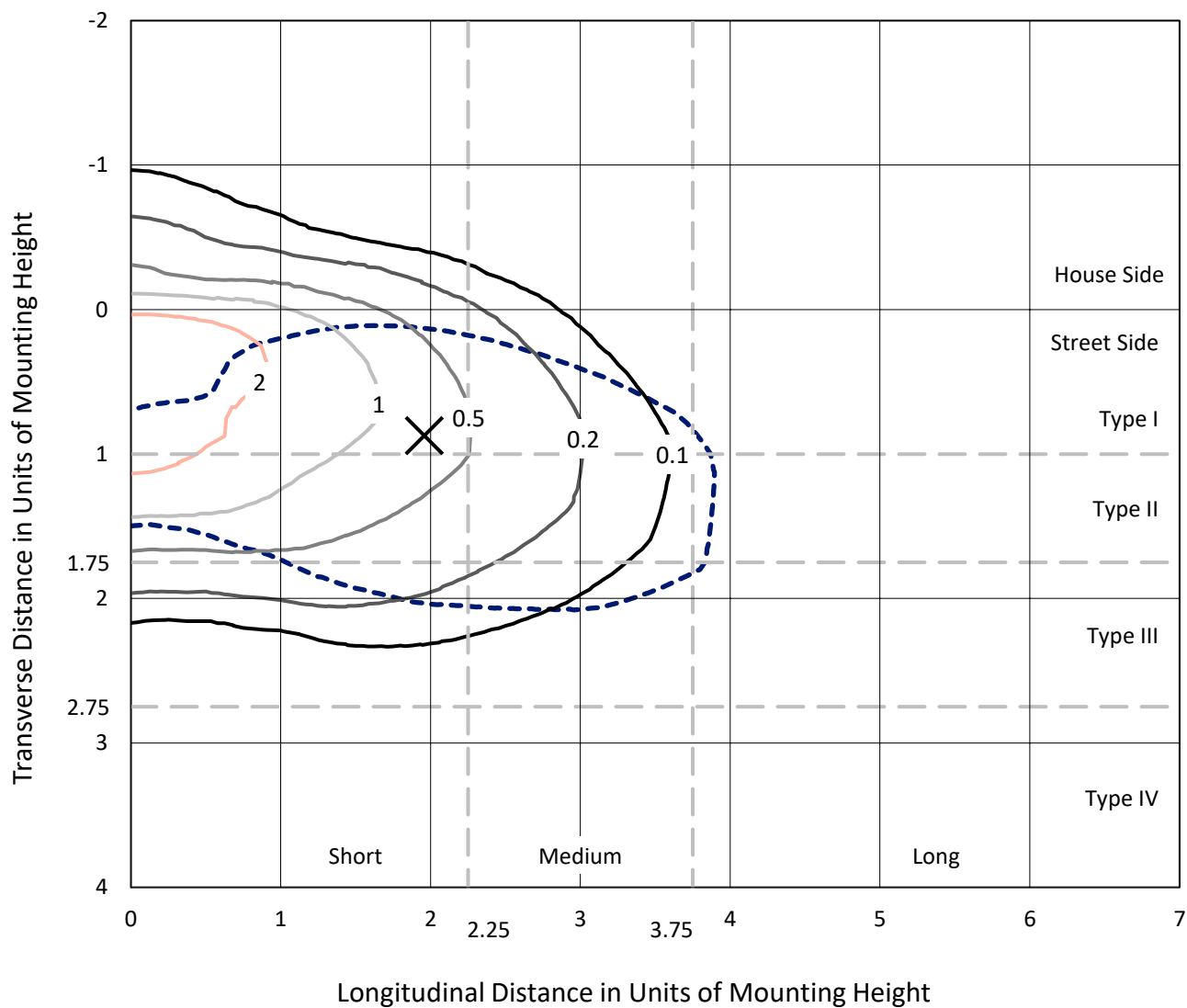
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

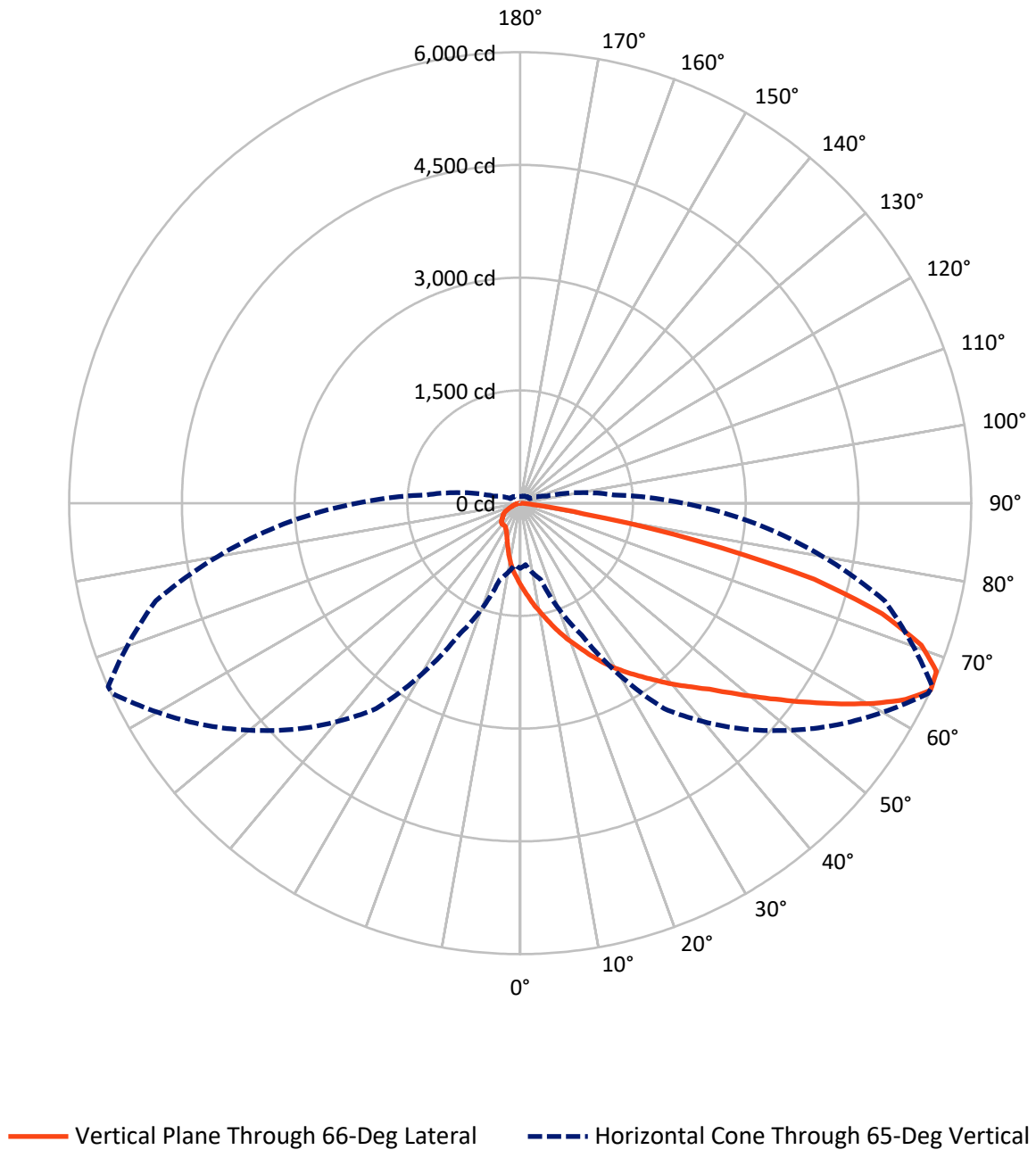


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	873.5	0.0	873.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7384.5	0.0	7384.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	8258.0	0.0	8258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.3
10°-20°	351.6	4.3
20°-30°	636.1	7.7
30°-40°	994.7	12.0
40°-50°	1509.0	18.3
50°-60°	1917.2	23.2
60°-70°	1791.4	21.7
70°-80°	890.3	10.8
80°-90°	59.8	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°	8258.0	100.0
0°-180°	8258.0	100.0

Coefficient of Utilization



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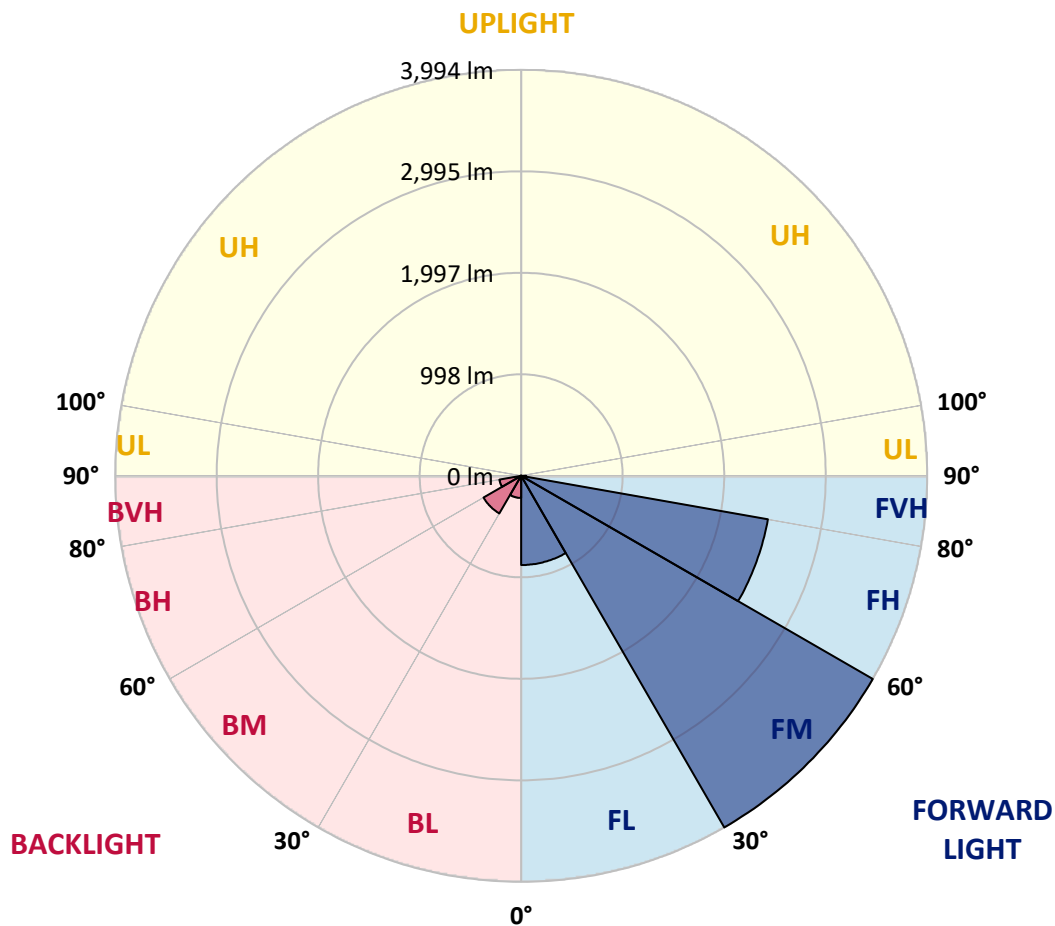
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	877.4	10.6			
FM	(30°-60°)	3993.7	48.4			
FH	(60°-80°)	2464.2	29.8			G2/5000
FVH	(80°-90°)	49.2	0.6			G1/100
BL	(0°-30°)	218.1	2.6	B1/500		
BM	(30°-60°)	427.2	5.2	B1/1000		
BH	(60°-80°)	217.5	2.6	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1276.5	1286.9	1292.1	1293.8	1254.0	1236.7	1219.3	1179.5	1170.8	1148.3	1118.9
5°	1501.7	1515.5	1512.0	1505.1	1456.6	1401.2	1356.2	1281.7	1269.6	1215.9	1150.1
7.5°	1723.4	1735.5	1732.0	1706.0	1652.3	1574.4	1499.9	1390.8	1373.5	1286.9	1181.2
10°	1908.7	1919.1	1917.3	1891.4	1827.3	1732.0	1641.9	1496.5	1475.7	1352.7	1207.2
12.5°	2061.1	2075.0	2073.2	2055.9	1998.7	1894.8	1792.6	1617.7	1591.7	1432.4	1243.6
15°	2180.6	2197.9	2197.9	2191.0	2151.2	2064.6	1948.5	1751.1	1719.9	1524.2	1288.6
17.5°	2253.4	2267.2	2279.3	2291.5	2263.7	2197.9	2092.3	1884.4	1851.5	1614.2	1335.4
20°	2291.5	2305.3	2314.0	2340.0	2345.1	2312.2	2229.1	2016.1	1981.4	1716.4	1389.1
22.5°	2353.8	2365.9	2367.7	2390.2	2400.6	2409.2	2357.3	2146.0	2118.3	1829.0	1449.7
25°	2457.7	2471.6	2466.4	2476.8	2478.5	2488.9	2483.7	2294.9	2267.2	1957.2	1522.4
27.5°	2591.1	2608.4	2604.9	2594.6	2579.0	2570.3	2592.8	2445.6	2419.6	2085.3	1596.9
30°	2734.9	2755.6	2750.4	2729.7	2688.1	2651.7	2682.9	2587.6	2563.4	2217.0	1680.1
32.5°	2880.3	2904.6	2902.9	2868.2	2797.2	2734.9	2781.6	2721.0	2703.7	2359.0	1770.1
35°	2975.6	3006.8	3003.3	2982.5	2890.7	2837.0	2894.2	2857.8	2845.7	2532.2	1900.0
37.5°	3129.7	3162.7	3133.2	3081.3	2975.6	2947.9	3017.2	3012.0	3003.3	2715.8	2036.8
40°	3503.9	3552.4	3474.4	3261.4	3088.2	3063.9	3162.7	3183.4	3174.8	2897.7	2159.8
42.5°	3895.3	3968.0	3846.8	3552.4	3292.6	3204.2	3322.0	3351.4	3341.1	3053.5	2270.7
45°	4132.6	4163.8	4042.5	3813.9	3654.6	3374.0	3491.7	3540.2	3531.6	3240.6	2412.7
47.5°	4326.6	4314.4	4175.9	4021.7	4051.2	3613.0	3684.0	3779.3	3772.3	3446.7	2568.6
50°	4368.1	4340.4	4285.0	4188.0	4266.0	3855.5	3886.6	4051.2	4044.3	3675.3	2726.2
52.5°	4075.4	4039.1	4189.7	4271.1	4245.2	4032.1	4110.1	4349.1	4345.6	3923.0	2876.9
55°	3344.5	3315.1	3720.4	4141.2	4222.7	4156.8	4357.7	4659.1	4678.2	4186.3	3013.7
57.5°	2630.9	2599.8	2998.1	3815.6	4139.5	4271.1	4647.0	5014.2	5038.4	4472.1	3143.6
60°	2097.5	2050.7	2355.5	3303.0	3983.6	4359.5	4925.8	5403.9	5407.3	4733.6	3223.3
62.5°	1425.4	1373.5	1711.2	2653.4	3722.1	4373.3	5140.6	5739.9	5753.8	4929.3	3237.1
65°	866.0	822.7	1051.3	1938.1	3335.9	4255.6	5144.1	5987.6	5999.7	5019.4	3154.0
67.5°	502.3	485.0	601.0	1207.2	2695.0	3938.6	4927.6	5949.5	5972.0	4981.3	2965.2
70°	292.7	291.0	334.3	597.5	1901.8	3309.9	4444.3	5629.0	5662.0	4782.1	2676.0
72.5°	214.8	218.2	235.6	320.4	1101.6	2383.3	3763.7	4984.7	5035.0	4392.4	2263.7
75°	169.7	171.5	187.1	218.2	578.5	1347.5	2819.7	4001.0	4040.8	3697.9	1768.4
77.5°	126.4	129.9	142.0	154.1	268.5	618.3	1586.5	2464.7	2398.8	2029.9	853.9
80°	91.8	100.5	105.7	110.8	142.0	239.0	476.3	859.1	852.2	886.8	403.6
82.5°	58.9	65.8	71.0	74.5	84.9	114.3	142.0	192.3	207.8	344.7	161.1
85°	26.0	29.4	32.9	39.8	36.4	39.8	58.9	38.1	32.9	52.0	29.4
87.5°	0.0	0.0	5.2	8.7	6.9	3.5	10.4	6.9	5.2	5.2	5.2
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°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1103.3	1084.2	1044.4	1006.3	983.8	954.3	928.4	904.1	902.4	895.5	883.3
5°	1117.1	1080.8	1006.3	935.3	881.6	824.4	775.9	737.8	724.0	713.6	699.7
7.5°	1131.0	1073.8	963.0	859.1	774.2	694.5	637.4	585.4	569.8	556.0	547.3
10°	1136.2	1061.7	912.8	774.2	663.4	578.5	517.9	479.8	465.9	459.0	453.8
12.5°	1151.8	1054.8	866.0	694.5	566.4	488.4	445.1	422.6	417.4	412.2	407.0
15°	1172.6	1054.8	819.2	616.6	490.2	427.8	401.8	386.2	382.8	381.0	377.6
17.5°	1195.1	1054.8	774.2	550.8	434.7	388.0	368.9	360.3	358.5	356.8	355.1
20°	1226.3	1056.5	725.7	493.6	394.9	358.5	342.9	332.5	330.8	329.1	329.1
22.5°	1257.4	1060.0	678.9	450.3	368.9	336.0	317.0	306.6	303.1	303.1	303.1
25°	1297.3	1070.4	635.6	414.0	346.4	315.2	291.0	282.3	280.6	280.6	278.9
27.5°	1344.0	1082.5	597.5	386.2	323.9	291.0	266.7	258.1	254.6	254.6	252.9
30°	1394.3	1094.6	566.4	365.5	301.4	266.7	244.2	233.8	230.4	232.1	230.4
32.5°	1449.7	1112.0	542.1	351.6	280.6	245.9	225.2	213.0	211.3	211.3	209.6
35°	1543.2	1160.4	538.7	344.7	263.3	230.4	209.6	197.4	195.7	195.7	194.0
37.5°	1643.7	1215.9	554.2	341.2	249.4	216.5	197.4	185.3	183.6	183.6	183.6
40°	1728.6	1257.4	571.6	341.2	240.7	204.4	187.1	176.7	176.7	176.7	176.7
42.5°	1785.7	1260.9	568.1	341.2	233.8	195.7	180.1	169.7	169.7	171.5	169.7
45°	1870.6	1278.2	554.2	336.0	228.6	188.8	173.2	164.5	162.8	164.5	164.5
47.5°	1971.0	1309.4	540.4	315.2	226.9	181.9	168.0	157.6	155.9	157.6	155.9
50°	2066.3	1337.1	533.5	287.5	223.4	174.9	161.1	150.7	149.0	150.7	149.0
52.5°	2146.0	1349.2	521.3	268.5	214.8	168.0	154.1	143.8	140.3	142.0	142.0
55°	2210.1	1345.8	504.0	252.9	199.2	161.1	145.5	136.8	131.6	131.6	129.9
57.5°	2268.9	1347.5	488.4	237.3	181.9	150.7	138.6	128.2	121.2	119.5	117.8
60°	2291.5	1338.8	460.7	216.5	164.5	142.0	129.9	117.8	110.8	109.1	107.4
62.5°	2260.3	1307.7	424.3	180.1	149.0	131.6	121.2	109.1	102.2	100.5	98.7
65°	2171.9	1248.8	368.9	142.0	135.1	119.5	110.8	102.2	93.5	90.1	88.3
67.5°	2021.3	1163.9	299.6	114.3	119.5	109.1	103.9	93.5	83.1	79.7	77.9
70°	1806.5	1051.3	225.2	97.0	105.7	97.0	93.5	83.1	74.5	71.0	69.3
72.5°	1505.1	869.5	157.6	83.1	91.8	84.9	81.4	74.5	65.8	60.6	60.6
75°	1137.9	623.5	103.9	71.0	76.2	72.7	67.5	62.4	57.2	53.7	52.0
77.5°	490.2	242.5	64.1	53.7	62.4	60.6	53.7	50.2	48.5	45.0	45.0
80°	211.3	98.7	39.8	39.8	45.0	43.3	41.6	38.1	38.1	36.4	34.6
82.5°	77.9	39.8	24.2	29.4	32.9	29.4	29.4	29.4	29.4	27.7	27.7
85°	19.1	12.1	12.1	17.3	19.1	17.3	19.1	17.3	17.3	17.3	15.6
87.5°	5.2	5.2	6.9	6.9	6.9	6.9	6.9	5.2	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)