

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: P842585

Luminaire Tested: **ARCH4-70-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7813 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.8
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

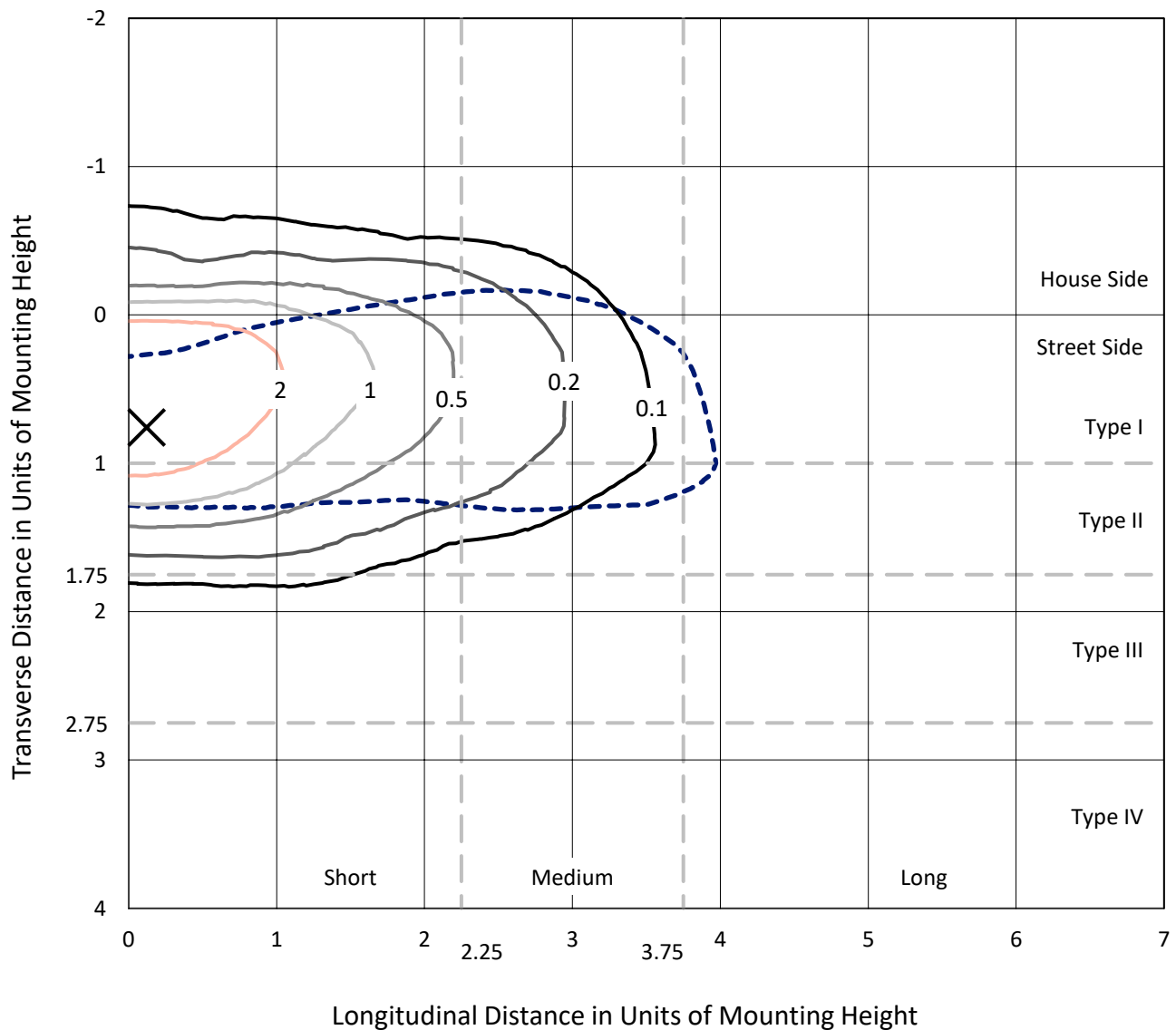


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

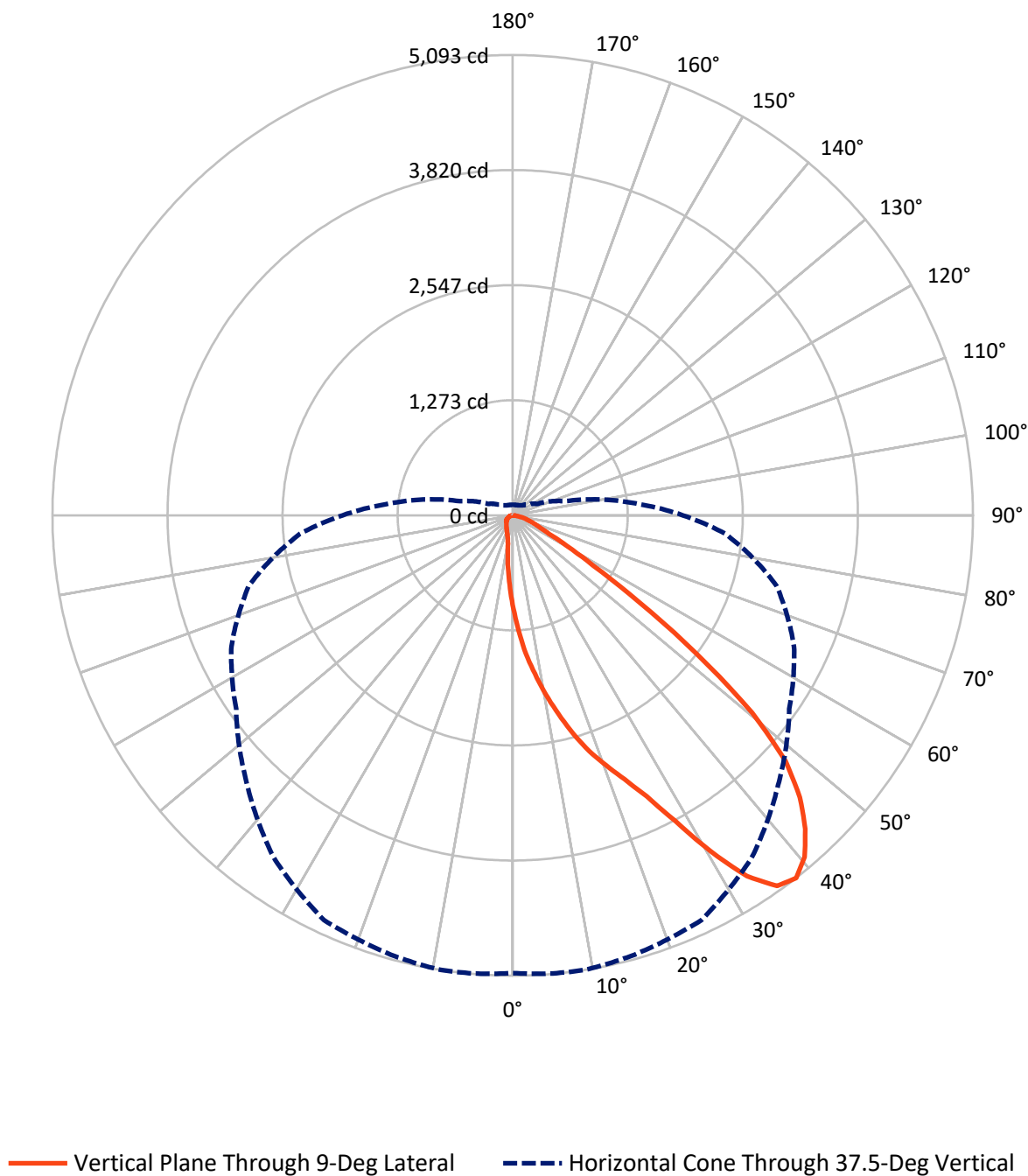


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.2	0.0	950.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6862.8	0.0	6862.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	7813.0	0.0	7813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.3
10°-20°	360.8	4.6
20°-30°	741.4	9.5
30°-40°	1310.5	16.8
40°-50°	1740.8	22.3
50°-60°	1651.1	21.1
60°-70°	1259.6	16.1
70°-80°	610.7	7.8
80°-90°	34.4	0.4
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°	7813.0	100.0
0°-180°	7813.0	100.0

Coefficient of Utilization



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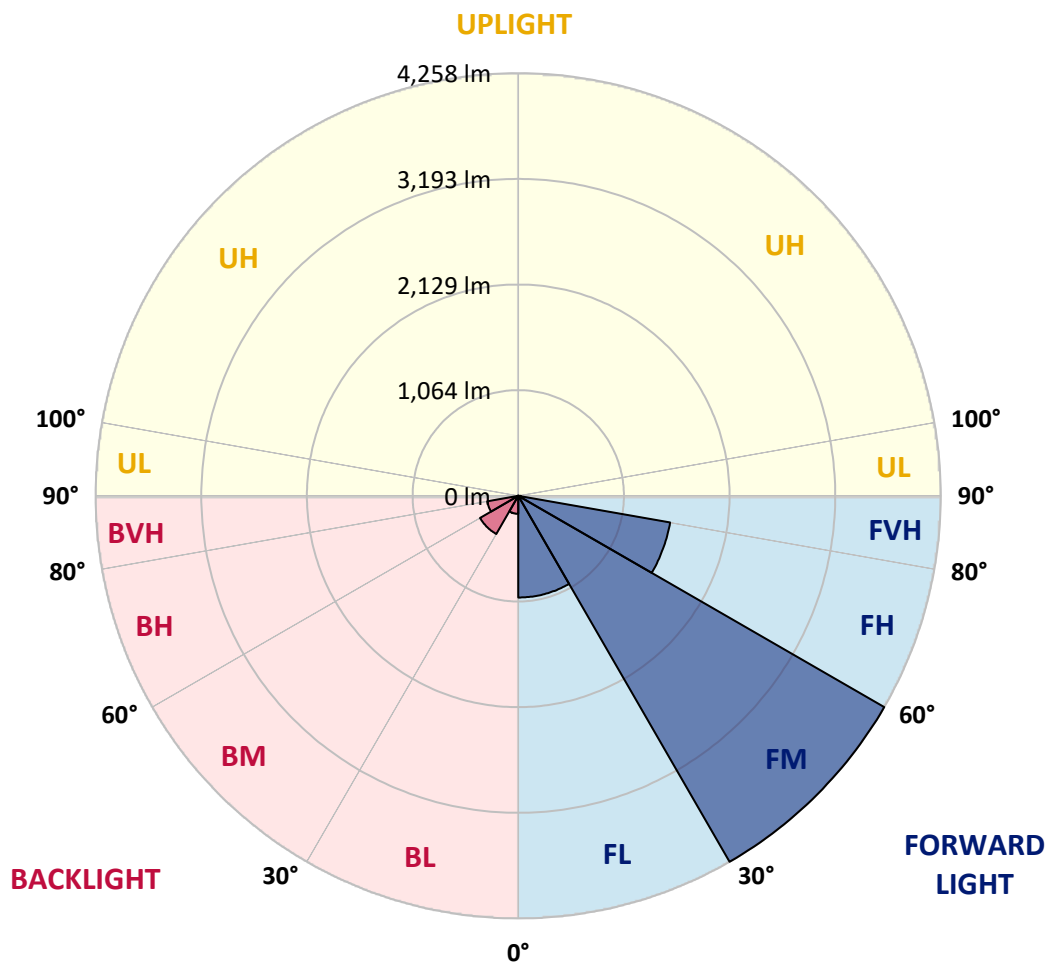
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.7	13.1			
FM	(30°-60°)	4257.7	54.5			
FH	(60°-80°)	1553.2	19.9			G1/1800
FVH	(80°-90°)	27.2	0.3			G1/100
BL	(0°-30°)	181.3	2.3	B1/500		
BM	(30°-60°)	444.6	5.7	B1/1000		
BH	(60°-80°)	317.1	4.1	B1/500		G1/500
BVH	(80°-90°)	7.2	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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1279.8	1257.3	1283.0	1279.8	1257.3	1242.9	1198.0	1183.5	1130.6	1092.1	1058.4
5°	1542.8	1520.3	1542.8	1536.3	1504.3	1469.0	1395.2	1347.1	1252.5	1169.1	1093.7
7.5°	1760.9	1760.9	1770.5	1772.1	1733.6	1679.1	1587.7	1515.5	1382.4	1254.1	1133.8
10°	1996.6	1998.2	2019.1	2004.6	1953.3	1879.5	1764.1	1672.7	1512.3	1343.9	1172.3
12.5°	2248.4	2250.0	2256.4	2250.0	2189.1	2094.4	1954.9	1834.6	1650.2	1446.5	1225.2
15°	2500.2	2501.8	2509.8	2498.6	2431.2	2320.6	2161.8	2014.2	1796.1	1562.0	1289.4
17.5°	2735.9	2739.1	2745.5	2731.1	2660.5	2529.0	2367.1	2189.1	1951.7	1685.5	1361.5
20°	2947.6	2950.8	2955.6	2936.4	2865.8	2734.3	2559.5	2373.5	2110.5	1812.2	1440.1
22.5°	3160.9	3164.1	3172.1	3146.5	3067.9	2917.1	2745.5	2553.1	2278.9	1951.7	1531.5
25°	3433.5	3436.7	3443.1	3406.3	3298.8	3122.4	2941.2	2743.9	2461.7	2108.9	1643.8
27.5°	3832.8	3829.6	3829.6	3762.3	3577.9	3348.5	3138.4	2938.0	2658.9	2277.3	1767.3
30°	4326.8	4318.8	4314.0	4222.5	3959.5	3603.5	3340.5	3119.2	2848.2	2455.3	1900.4
32.5°	4769.4	4769.4	4759.8	4663.6	4384.5	3946.7	3555.4	3295.6	3031.0	2634.9	2038.3
35°	5030.8	5042.0	5037.2	4965.1	4761.4	4315.6	3845.7	3507.3	3223.4	2822.5	2203.5
37.5°	5066.1	5088.5	5093.4	5050.1	4942.6	4617.1	4168.0	3736.6	3435.1	3024.6	2363.9
40°	4923.4	4971.5	4971.5	4965.1	4926.6	4759.8	4439.0	4002.8	3653.2	3234.7	2525.8
42.5°	4703.7	4753.4	4747.0	4771.0	4761.4	4726.1	4591.4	4251.4	3871.3	3451.2	2673.4
45°	4416.6	4467.9	4455.1	4498.4	4517.6	4556.1	4575.4	4424.6	4086.2	3686.9	2838.6
47.5°	3956.3	4042.9	4062.2	4139.2	4219.3	4339.6	4431.0	4487.2	4286.7	3940.3	3018.2
50°	3276.4	3398.2	3436.7	3598.7	3818.4	4067.0	4214.5	4410.2	4427.8	4200.1	3212.2
52.5°	2346.2	2487.3	2546.7	2812.9	3265.1	3698.1	3964.4	4240.2	4482.3	4448.7	3422.3
55°	1517.1	1637.4	1695.1	1945.3	2546.7	3226.6	3669.3	4020.5	4451.9	4676.4	3662.9
57.5°	935.0	1003.9	1042.4	1257.3	1810.6	2622.1	3282.8	3818.4	4358.9	4873.7	3913.0
60°	630.3	670.3	689.6	790.6	1230.0	1959.7	2752.0	3606.7	4237.0	5006.8	4140.8
62.5°	418.6	431.4	450.6	513.2	811.5	1376.0	2113.7	3228.3	4145.6	5014.8	4309.1
65°	323.9	330.4	338.4	365.6	500.4	962.2	1486.6	2615.6	4009.3	4844.8	4362.1
67.5°	255.0	261.4	271.0	285.5	362.4	652.7	1011.9	1916.4	3730.2	4578.6	4275.5
70°	200.5	205.3	211.7	224.5	282.3	473.1	668.7	1273.3	3167.3	4325.2	4002.8
72.5°	158.8	163.6	170.0	182.8	229.3	346.4	458.7	793.8	2442.4	4015.7	3478.4
75°	125.1	128.3	133.1	145.9	184.4	269.4	311.1	474.7	1659.8	3449.6	2710.3
77.5°	62.5	77.0	88.2	101.0	134.7	186.0	206.9	263.0	700.8	1770.5	1292.6
80°	36.9	44.9	48.1	56.1	88.2	112.3	112.3	105.8	221.3	680.0	527.6
82.5°	20.8	28.9	30.5	32.1	52.9	64.1	51.3	38.5	44.9	227.7	154.0
85°	6.4	9.6	11.2	12.8	17.6	19.2	17.6	16.0	12.8	22.5	14.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	3.2	3.2	4.8	4.8	4.8
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°	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8	1032.8
2.5°	1039.2	1018.4	978.3	941.4	906.1	880.4	856.4	833.9	817.9	805.1	803.5
5°	1053.6	1011.9	935.0	862.8	797.0	742.5	696.0	659.1	631.9	612.6	611.0
7.5°	1072.9	1008.7	891.7	784.2	686.4	607.8	540.4	490.7	455.5	441.0	429.8
10°	1088.9	1005.5	848.4	705.6	577.3	477.9	397.7	348.0	322.3	312.7	307.9
12.5°	1116.2	1008.7	811.5	633.5	482.7	365.6	304.7	277.4	266.2	258.2	256.6
15°	1156.3	1023.2	776.2	562.9	386.5	295.1	259.8	242.2	230.9	229.3	227.7
17.5°	1196.4	1036.0	744.1	490.7	320.7	256.6	232.5	218.1	210.1	208.5	208.5
20°	1242.9	1052.0	708.8	421.8	274.2	230.9	211.7	200.5	190.8	189.2	189.2
22.5°	1297.4	1074.5	675.2	360.8	243.8	211.7	195.7	182.8	174.8	173.2	173.2
25°	1371.2	1108.2	647.9	315.9	222.9	195.7	181.2	170.0	163.6	160.4	160.4
27.5°	1453.0	1154.7	628.7	288.7	208.5	182.8	168.4	158.8	152.4	149.1	149.1
30°	1544.4	1206.0	615.8	277.4	200.5	171.6	158.8	149.1	141.1	139.5	139.5
32.5°	1645.4	1265.3	607.8	279.0	198.9	163.6	149.1	139.5	133.1	129.9	129.9
35°	1757.7	1331.1	603.0	288.7	202.1	157.2	141.1	131.5	125.1	121.9	121.9
37.5°	1882.7	1408.1	603.0	298.3	210.1	155.6	133.1	123.5	118.7	115.5	115.5
40°	1999.8	1489.8	609.4	309.5	218.1	155.6	126.7	118.7	112.3	109.1	109.1
42.5°	2091.2	1536.3	614.2	320.7	222.9	154.0	120.3	112.3	107.4	104.2	104.2
45°	2195.5	1586.1	604.6	325.6	222.9	150.7	115.5	107.4	102.6	99.4	99.4
47.5°	2310.9	1647.0	603.0	328.8	218.1	144.3	110.7	102.6	99.4	96.2	96.2
50°	2428.0	1714.4	606.2	327.2	211.7	134.7	104.2	99.4	94.6	91.4	91.4
52.5°	2561.1	1784.9	612.6	323.9	197.3	123.5	99.4	94.6	89.8	86.6	85.0
55°	2708.7	1861.9	625.4	317.5	178.0	112.3	94.6	89.8	83.4	80.2	78.6
57.5°	2878.6	1956.5	639.9	304.7	157.2	102.6	89.8	83.4	73.8	69.0	67.4
60°	3040.6	2064.0	655.9	274.2	136.3	93.0	85.0	75.4	65.8	62.5	60.9
62.5°	3193.0	2169.8	663.9	219.7	115.5	85.0	80.2	69.0	59.3	56.1	54.5
65°	3290.8	2285.3	646.3	149.1	94.6	78.6	73.8	64.1	54.5	49.7	49.7
67.5°	3297.2	2339.8	585.4	97.8	77.0	70.6	67.4	57.7	48.1	44.9	43.3
70°	3135.2	2258.0	447.4	77.0	64.1	60.9	60.9	51.3	41.7	38.5	36.9
72.5°	2763.2	1999.8	285.5	62.5	54.5	51.3	51.3	43.3	36.9	32.1	30.5
75°	2181.0	1542.8	152.4	51.3	44.9	43.3	40.1	35.3	30.5	27.3	25.7
77.5°	1002.3	680.0	70.6	36.9	33.7	33.7	30.5	25.7	24.1	20.8	20.8
80°	396.1	230.9	35.3	24.1	22.5	22.5	22.5	17.6	17.6	14.4	12.8
82.5°	109.1	48.1	17.6	14.4	14.4	14.4	12.8	11.2	11.2	9.6	9.6
85°	11.2	8.0	8.0	8.0	8.0	6.4	6.4	4.8	3.2	3.2	3.2
87.5°	4.8	4.8	4.8	4.8	4.8	3.2	1.6	0.0	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)