

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: P842531

Luminaire Tested: **ARCH4-60-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842531
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: ARCH4-60-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA 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: 7704 lumens
Efficiency: N/A
Efficacy: 122.3 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): 63
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

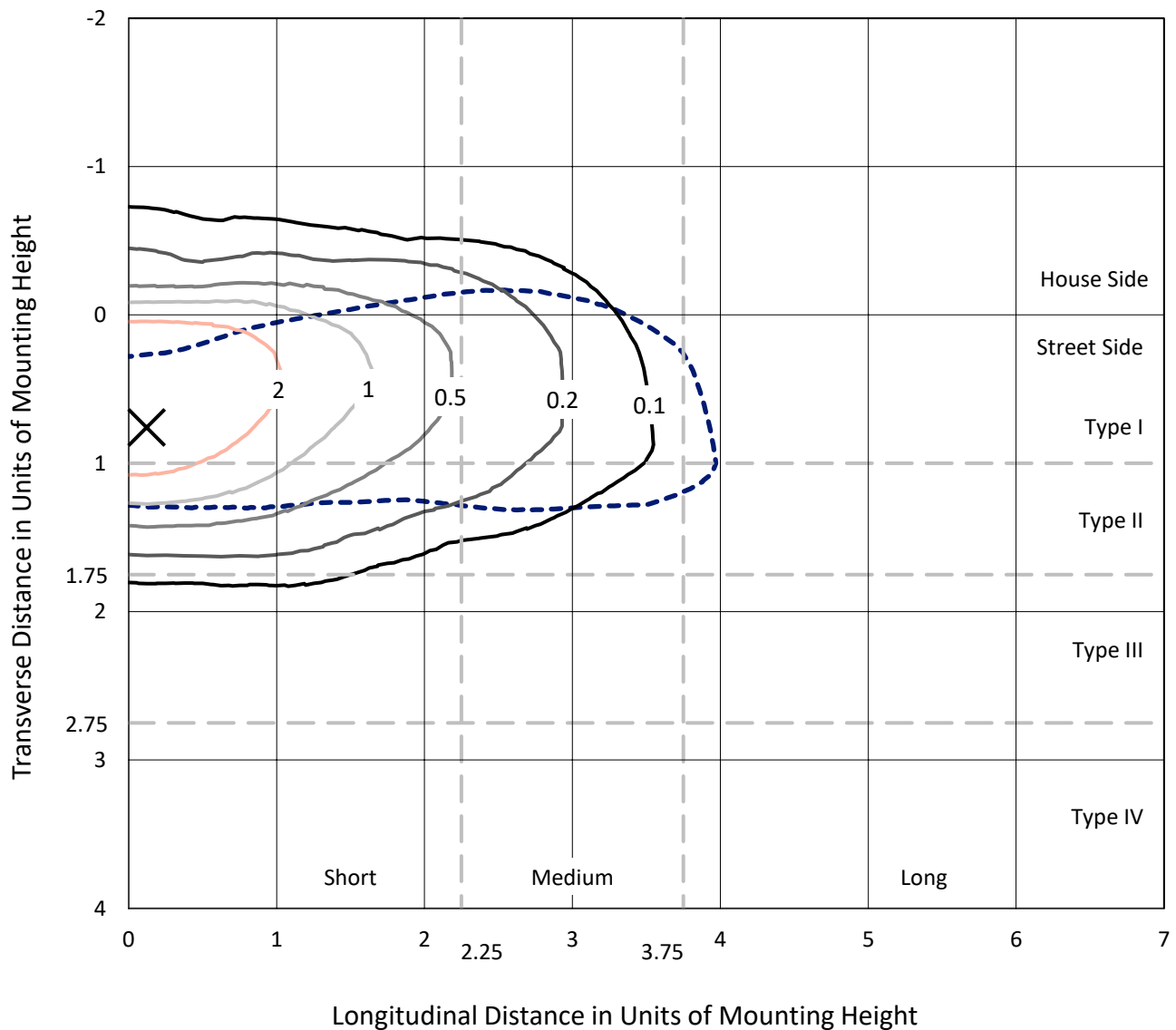


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

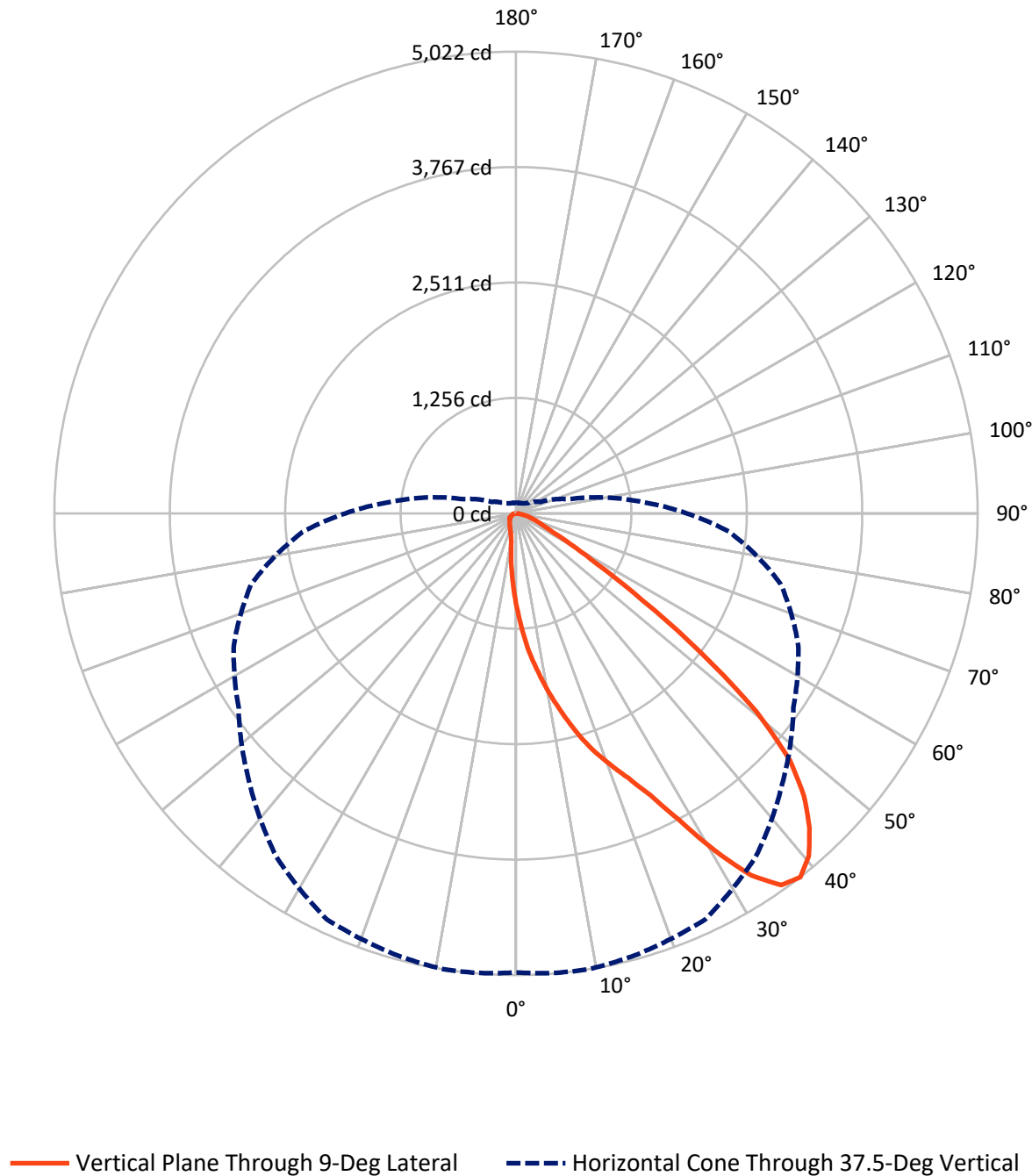


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

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	936.9	0.0	936.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6767.1	0.0	6767.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	7704.0	0.0	7704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.3
10°-20°	355.8	4.6
20°-30°	731.0	9.5
30°-40°	1292.2	16.8
40°-50°	1716.5	22.3
50°-60°	1628.0	21.1
60°-70°	1242.0	16.1
70°-80°	602.1	7.8
80°-90°	33.9	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°	7704.0	100.0
0°-180°	7704.0	100.0

Coefficient of Utilization



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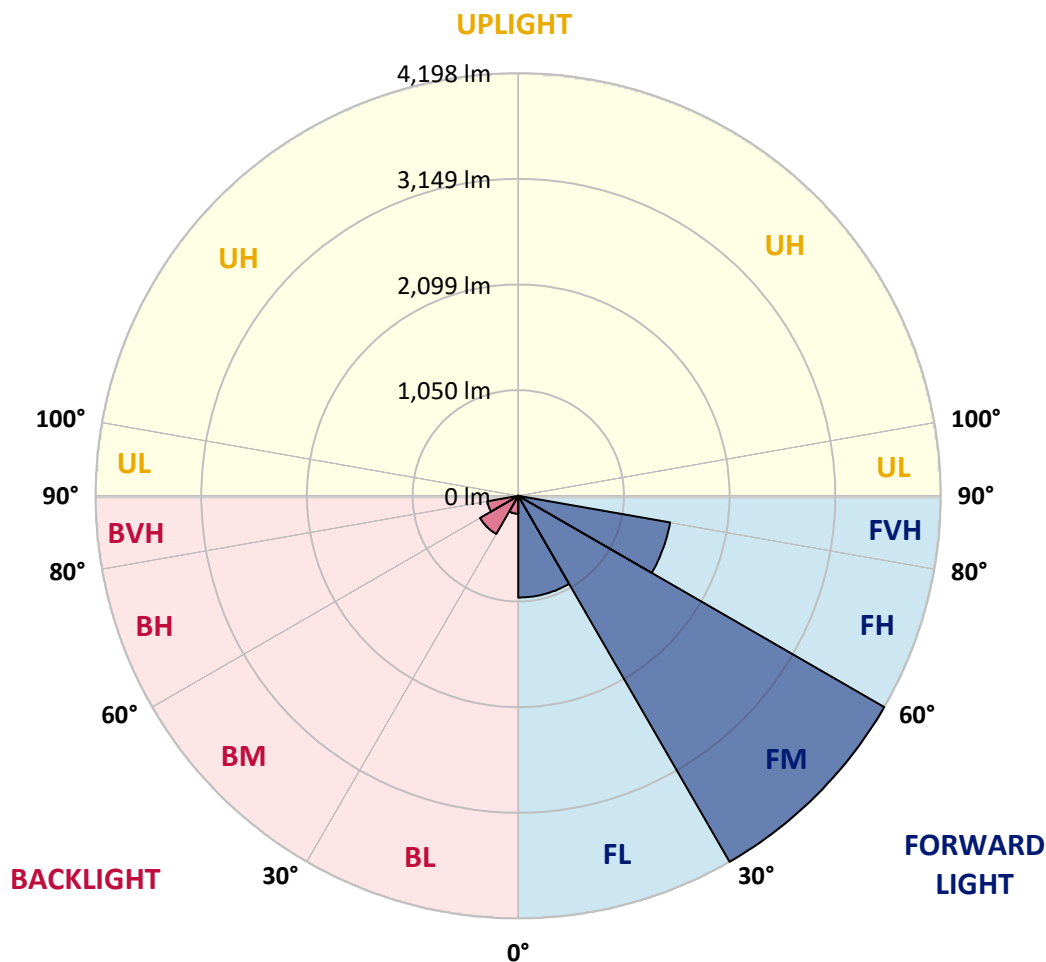
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.4	13.1			
FM	(30°-60°)	4198.3	54.5			
FH	(60°-80°)	1531.5	19.9			G1/1800
FVH	(80°-90°)	26.8	0.3			G1/100
BL	(0°-30°)	178.8	2.3	B1/500		
BM	(30°-60°)	438.4	5.7	B1/1000		
BH	(60°-80°)	312.7	4.1	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1261.9	1239.8	1265.1	1261.9	1239.8	1225.5	1181.3	1167.0	1114.8	1076.9	1043.7
5°	1521.2	1499.1	1521.2	1514.9	1483.3	1448.5	1375.8	1328.3	1235.0	1152.8	1078.5
7.5°	1736.3	1736.3	1745.8	1747.4	1709.4	1655.7	1565.5	1494.4	1363.1	1236.6	1118.0
10°	1968.8	1970.3	1990.9	1976.7	1926.1	1853.3	1739.5	1649.3	1491.2	1325.2	1156.0
12.5°	2217.0	2218.6	2224.9	2218.6	2158.5	2065.2	1927.6	1809.0	1627.2	1426.4	1208.1
15°	2465.3	2466.9	2474.8	2463.7	2397.3	2288.2	2131.6	1986.1	1771.1	1540.2	1271.4
17.5°	2697.7	2700.9	2707.2	2693.0	2623.4	2493.8	2334.0	2158.5	1924.5	1662.0	1342.5
20°	2906.5	2909.6	2914.4	2895.4	2825.8	2696.2	2523.8	2340.4	2081.0	1786.9	1420.0
22.5°	3116.8	3120.0	3127.9	3102.6	3025.1	2876.4	2707.2	2517.5	2247.1	1924.5	1510.2
25°	3385.6	3388.8	3395.1	3358.7	3252.8	3078.8	2900.2	2705.7	2427.3	2079.4	1620.9
27.5°	3779.4	3776.2	3776.2	3709.8	3527.9	3301.8	3094.7	2897.0	2621.8	2245.5	1742.6
30°	4266.4	4258.5	4253.8	4163.6	3904.3	3553.2	3293.9	3075.7	2808.4	2421.0	1873.9
32.5°	4702.9	4702.9	4693.4	4598.5	4323.4	3891.6	3505.8	3249.6	2988.7	2598.1	2009.9
35°	4960.6	4971.7	4967.0	4895.8	4695.0	4255.4	3792.0	3458.4	3178.5	2783.1	2172.7
37.5°	4995.4	5017.6	5022.3	4979.6	4873.7	4552.6	4109.9	3684.5	3387.2	2982.4	2330.9
40°	4854.7	4902.1	4902.1	4895.8	4857.8	4693.4	4377.1	3947.0	3602.3	3189.5	2490.6
42.5°	4638.0	4687.1	4680.7	4704.5	4695.0	4660.2	4527.3	4192.1	3817.3	3403.0	2636.1
45°	4355.0	4405.6	4392.9	4435.6	4454.6	4492.6	4511.5	4362.9	4029.2	3635.5	2799.0
47.5°	3901.1	3986.5	4005.5	4081.4	4160.5	4279.1	4369.2	4424.6	4226.9	3885.3	2976.1
50°	3230.7	3350.8	3388.8	3548.5	3765.1	4010.2	4155.7	4348.7	4366.0	4141.5	3167.4
52.5°	2313.5	2452.6	2511.1	2773.7	3219.6	3646.5	3909.0	4181.0	4419.8	4386.6	3374.6
55°	1495.9	1614.5	1671.5	1918.2	2511.1	3181.6	3618.1	3964.4	4389.8	4611.2	3611.8
57.5°	921.9	989.9	1027.9	1239.8	1785.3	2585.5	3237.0	3765.1	4298.1	4805.7	3858.4
60°	621.5	661.0	680.0	779.6	1212.9	1932.4	2713.6	3556.4	4177.9	4936.9	4083.0
62.5°	412.7	425.4	444.4	506.0	800.2	1356.8	2084.2	3183.2	4087.7	4944.8	4249.0
65°	319.4	325.8	333.7	360.5	493.4	948.8	1465.9	2579.1	3953.3	4777.2	4301.2
67.5°	251.4	257.8	267.2	281.5	357.4	643.6	997.8	1889.7	3678.2	4514.7	4215.8
70°	197.7	202.4	208.7	221.4	278.3	466.5	659.4	1255.6	3123.1	4264.8	3947.0
72.5°	156.6	161.3	167.6	180.3	226.1	341.6	452.3	782.8	2408.4	3959.6	3429.9
75°	123.3	126.5	131.3	143.9	181.9	265.7	306.8	468.1	1636.7	3401.4	2672.4
77.5°	61.7	75.9	87.0	99.6	132.8	183.4	204.0	259.3	691.0	1745.8	1274.6
80°	36.4	44.3	47.4	55.3	87.0	110.7	110.7	104.4	218.2	670.5	520.3
82.5°	20.6	28.5	30.0	31.6	52.2	63.3	50.6	38.0	44.3	224.5	151.8
85°	6.3	9.5	11.1	12.7	17.4	19.0	17.4	15.8	12.7	22.1	14.2
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	3.2	3.2	4.7	4.7	4.7
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°	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4	1018.4
2.5°	1024.7	1004.1	964.6	928.2	893.5	868.1	844.4	822.3	806.5	793.8	792.2
5°	1038.9	997.8	921.9	850.8	785.9	732.2	686.3	649.9	623.0	604.1	602.5
7.5°	1057.9	994.7	879.2	773.3	676.8	599.3	532.9	483.9	449.1	434.9	423.8
10°	1073.7	991.5	836.5	695.8	569.3	471.2	392.2	343.1	317.8	308.4	303.6
12.5°	1100.6	994.7	800.2	624.6	476.0	360.5	300.5	273.6	262.5	254.6	253.0
15°	1140.1	1008.9	765.4	555.0	381.1	291.0	256.2	238.8	227.7	226.1	224.5
17.5°	1179.7	1021.5	733.7	483.9	316.3	253.0	229.3	215.1	207.2	205.6	205.6
20°	1225.5	1037.4	698.9	415.9	270.4	227.7	208.7	197.7	188.2	186.6	186.6
22.5°	1279.3	1059.5	665.7	355.8	240.4	208.7	192.9	180.3	172.4	170.8	170.8
25°	1352.0	1092.7	638.9	311.5	219.8	192.9	178.7	167.6	161.3	158.1	158.1
27.5°	1432.7	1138.6	619.9	284.6	205.6	180.3	166.0	156.6	150.2	147.1	147.1
30°	1522.8	1189.2	607.2	273.6	197.7	169.2	156.6	147.1	139.2	137.6	137.6
32.5°	1622.4	1247.7	599.3	275.2	196.1	161.3	147.1	137.6	131.3	128.1	128.1
35°	1733.1	1312.5	594.6	284.6	199.2	155.0	139.2	129.7	123.3	120.2	120.2
37.5°	1856.5	1388.4	594.6	294.1	207.2	153.4	131.3	121.8	117.0	113.9	113.9
40°	1971.9	1469.1	600.9	305.2	215.1	153.4	124.9	117.0	110.7	107.5	107.5
42.5°	2062.1	1514.9	605.6	316.3	219.8	151.8	118.6	110.7	105.9	102.8	102.8
45°	2164.8	1563.9	596.2	321.0	219.8	148.6	113.9	105.9	101.2	98.0	98.0
47.5°	2278.7	1624.0	594.6	324.2	215.1	142.3	109.1	101.2	98.0	94.9	94.9
50°	2394.1	1690.4	597.7	322.6	208.7	132.8	102.8	98.0	93.3	90.1	90.1
52.5°	2525.4	1760.0	604.1	319.4	194.5	121.8	98.0	93.3	88.6	85.4	83.8
55°	2670.9	1835.9	616.7	313.1	175.5	110.7	93.3	88.6	82.2	79.1	77.5
57.5°	2838.5	1929.2	631.0	300.5	155.0	101.2	88.6	82.2	72.7	68.0	66.4
60°	2998.2	2035.2	646.8	270.4	134.4	91.7	83.8	74.3	64.8	61.7	60.1
62.5°	3148.4	2139.5	654.7	216.6	113.9	83.8	79.1	68.0	58.5	55.3	53.8
65°	3244.9	2253.4	637.3	147.1	93.3	77.5	72.7	63.3	53.8	49.0	49.0
67.5°	3251.2	2307.2	577.2	96.5	75.9	69.6	66.4	56.9	47.4	44.3	42.7
70°	3091.5	2226.5	441.2	75.9	63.3	60.1	60.1	50.6	41.1	38.0	36.4
72.5°	2724.6	1971.9	281.5	61.7	53.8	50.6	50.6	42.7	36.4	31.6	30.0
75°	2150.6	1521.2	150.2	50.6	44.3	42.7	39.5	34.8	30.0	26.9	25.3
77.5°	988.3	670.5	69.6	36.4	33.2	33.2	30.0	25.3	23.7	20.6	20.6
80°	390.6	227.7	34.8	23.7	22.1	22.1	22.1	17.4	17.4	14.2	12.7
82.5°	107.5	47.4	17.4	14.2	14.2	14.2	12.7	11.1	11.1	9.5	9.5
85°	11.1	7.9	7.9	7.9	7.9	6.3	6.3	4.7	3.2	3.2	3.2
87.5°	4.7	4.7	4.7	4.7	4.7	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)