

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: P841235

Luminaire Tested: **ARCH4-150-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841235
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: ARCH4-150-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA 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: 17162 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

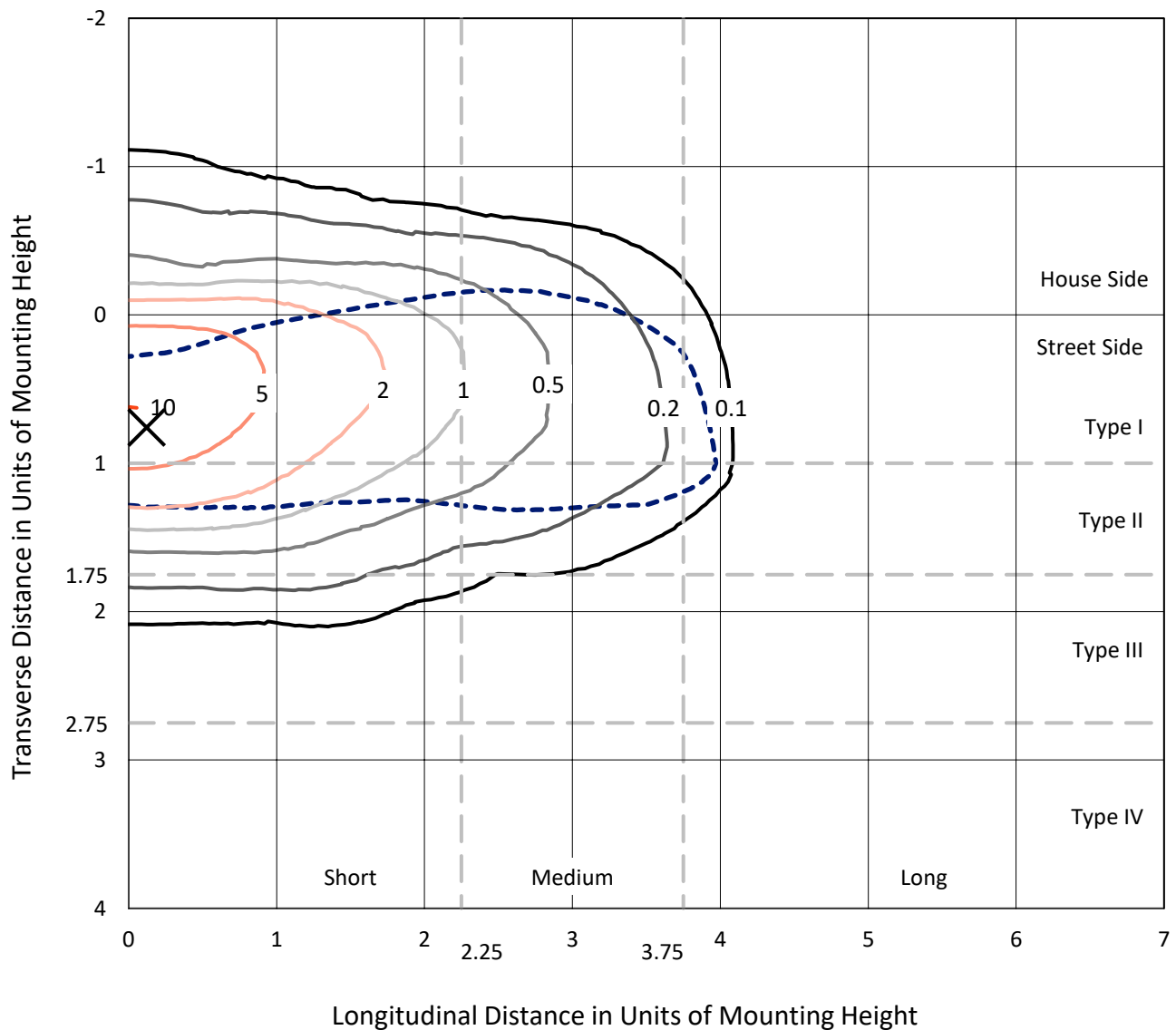
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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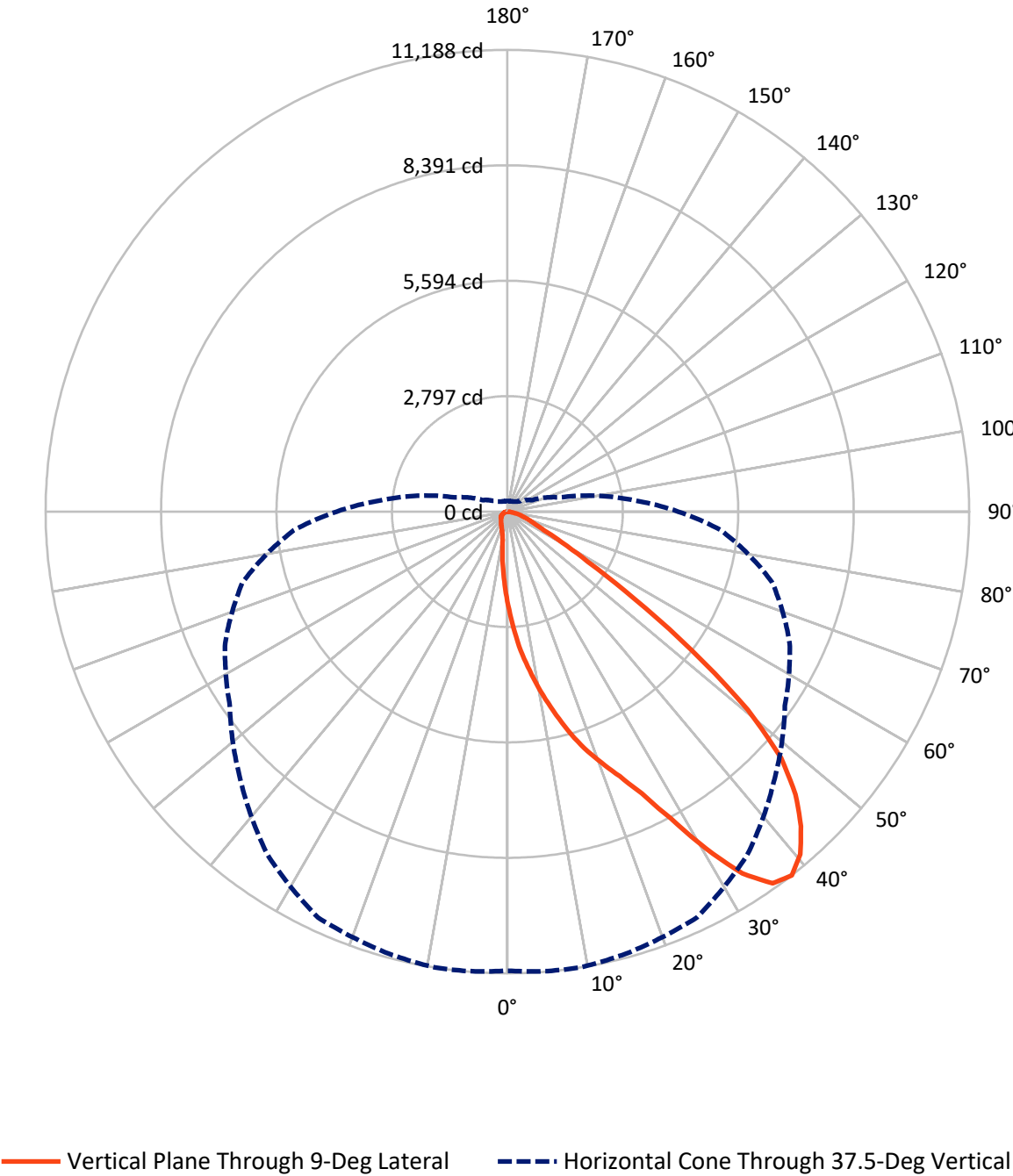
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.2	0.0	2087.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15074.8	0.0	15074.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	17162.0	0.0	17162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.3
10°-20°	792.6	4.6
20°-30°	1628.5	9.5
30°-40°	2878.5	16.8
40°-50°	3823.9	22.3
50°-60°	3626.7	21.1
60°-70°	2766.9	16.1
70°-80°	1341.4	7.8
80°-90°	75.5	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°	17162.0	100.0
0°-180°	17162.0	100.0

Coefficient of Utilization



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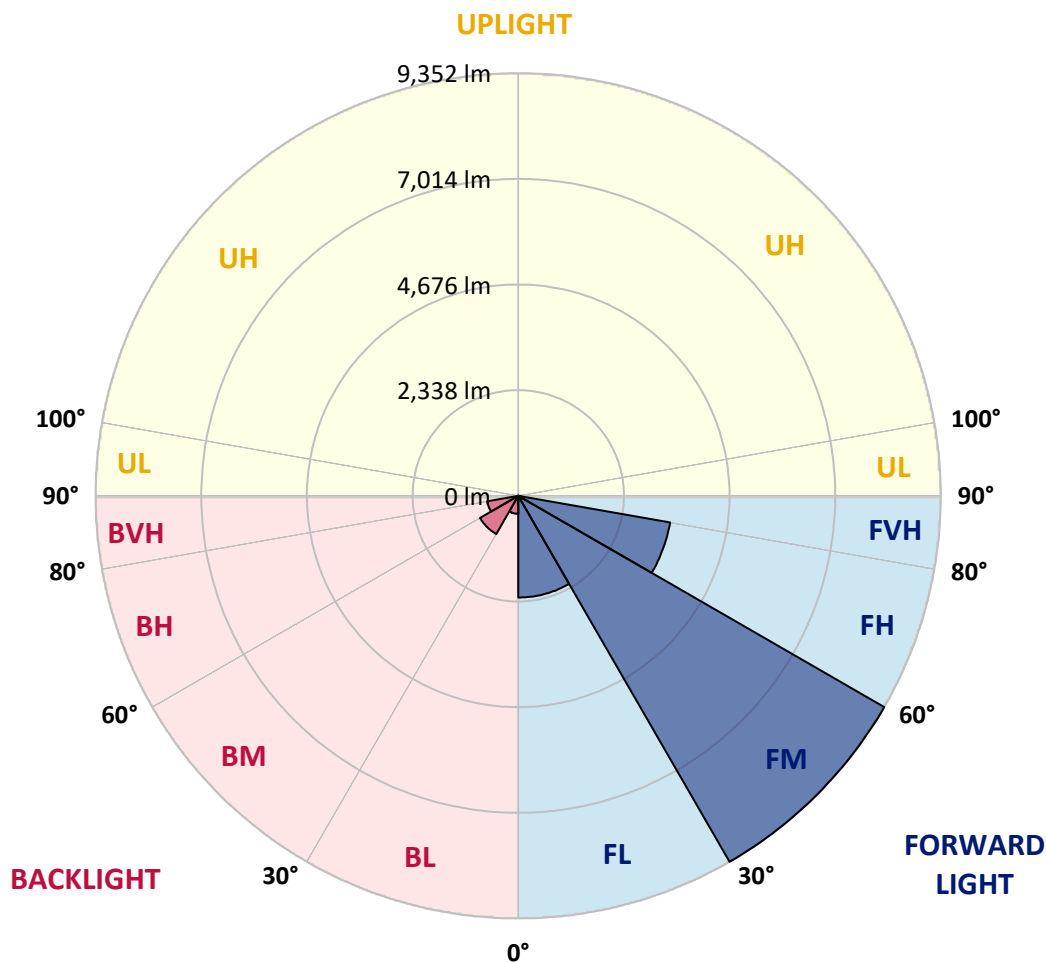
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2250.8	13.1			
FM	(30°-60°)	9352.5	54.5			
FH	(60°-80°)	3411.7	19.9			G2/5000
FVH	(80°-90°)	59.8	0.3			G1/100
BL	(0°-30°)	398.3	2.3	B1/500		
BM	(30°-60°)	976.7	5.7	B1/1000		
BH	(60°-80°)	696.5	4.1	B2/1000		G2/1000
BVH	(80°-90°)	15.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2.5°	2811.1	2761.8	2818.1	2811.1	2761.8	2730.1	2631.4	2599.7	2483.5	2398.9	2325.0
5°	3388.8	3339.5	3388.8	3374.7	3304.3	3226.8	3064.7	2959.1	2751.2	2568.0	2402.5
7.5°	3867.9	3867.9	3889.0	3892.6	3808.0	3688.3	3487.5	3328.9	3036.6	2754.7	2490.5
10°	4385.7	4389.3	4435.1	4403.4	4290.6	4128.6	3875.0	3674.2	3321.9	2952.0	2575.1
12.5°	4938.8	4942.3	4956.4	4942.3	4808.5	4600.6	4294.2	4030.0	3624.8	3177.5	2691.3
15°	5491.9	5495.4	5513.0	5488.3	5340.4	5097.3	4748.6	4424.5	3945.4	3431.1	2832.2
17.5°	6009.7	6016.7	6030.8	5999.1	5844.1	5555.3	5199.5	4808.5	4287.1	3702.3	2990.8
20°	6474.7	6481.7	6492.3	6450.0	6295.0	6006.2	5622.2	5213.6	4635.9	3980.6	3163.4
22.5°	6943.2	6950.3	6967.9	6911.5	6738.9	6407.8	6030.8	5608.1	5005.7	4287.1	3364.2
25°	7542.1	7549.1	7563.2	7482.2	7246.2	6858.7	6460.6	6027.3	5407.3	4632.3	3610.8
27.5°	8419.2	8412.2	8412.2	8264.2	7859.1	7355.4	6893.9	6453.6	5840.6	5002.2	3882.0
30°	9504.2	9486.6	9476.0	9275.2	8697.5	7915.5	7337.8	6851.6	6256.3	5393.2	4174.4
32.5°	10476.5	10476.5	10455.3	10244.0	9631.0	8669.3	7809.8	7239.1	6657.9	5787.8	4477.3
35°	11050.7	11075.3	11064.8	10906.2	10458.8	9479.5	8447.4	7704.1	7080.6	6199.9	4840.2
37.5°	11128.2	11177.5	11188.0	11092.9	10856.9	10141.8	9155.5	8207.9	7545.6	6643.8	5192.4
40°	10814.6	10920.3	10920.3	10906.2	10821.7	10455.3	9750.8	8792.6	8024.7	7105.3	5548.2
42.5°	10332.0	10441.2	10427.1	10480.0	10458.8	10381.4	10085.4	9338.6	8503.8	7580.8	5872.3
45°	9701.5	9814.2	9786.0	9881.1	9923.4	10007.9	10050.2	9719.1	8975.8	8098.7	6235.2
47.5°	8690.5	8880.7	8923.0	9092.0	9268.2	9532.4	9733.2	9856.5	9416.1	8655.2	6629.7
50°	7196.8	7464.6	7549.1	7904.9	8387.5	8933.5	9257.6	9687.4	9726.1	9225.9	7055.9
52.5°	5153.7	5463.7	5594.0	6178.8	7172.2	8123.3	8708.1	9314.0	9845.9	9771.9	7517.4
55°	3332.5	3596.7	3723.5	4273.0	5594.0	7087.6	8059.9	8831.4	9779.0	10272.1	8045.8
57.5°	2053.7	2205.2	2289.7	2761.8	3977.1	5759.6	7210.9	8387.5	9574.7	10705.4	8595.3
60°	1384.4	1472.5	1514.8	1736.7	2701.9	4304.7	6044.9	7922.5	9306.9	10997.8	9095.6
62.5°	919.4	947.6	989.9	1127.3	1782.5	3022.5	4642.9	7091.2	9106.1	11015.4	9465.5
65°	711.6	725.7	743.3	803.2	1099.1	2113.6	3265.5	5745.5	8806.7	10642.0	9581.7
67.5°	560.1	574.2	595.3	627.0	796.1	1433.7	2222.8	4209.6	8193.8	10057.3	9391.5
70°	440.3	450.9	465.0	493.2	620.0	1039.2	1469.0	2797.0	6957.3	9500.7	8792.6
72.5°	348.7	359.3	373.4	401.6	503.7	760.9	1007.5	1743.7	5365.0	8820.8	7640.7
75°	274.8	281.8	292.4	320.6	405.1	591.8	683.4	1042.7	3646.0	7577.3	5953.3
77.5°	137.4	169.1	193.7	221.9	295.9	408.6	454.4	577.7	1539.4	3889.0	2839.3
80°	81.0	98.6	105.7	123.3	193.7	246.6	246.6	232.5	486.1	1493.6	1159.0
82.5°	45.8	63.4	66.9	70.5	116.2	140.9	112.7	84.5	98.6	500.2	338.2
85°	14.1	21.1	24.7	28.2	38.7	42.3	38.7	35.2	28.2	49.3	31.7
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	7.0	7.0	10.6	10.6	10.6
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°	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6	2268.6
2.5°	2282.7	2236.9	2148.8	2067.8	1990.3	1934.0	1881.1	1831.8	1796.6	1768.4	1764.9
5°	2314.4	2222.8	2053.7	1895.2	1750.8	1631.0	1528.8	1447.8	1387.9	1345.7	1342.1
7.5°	2356.7	2215.8	1958.6	1722.6	1507.7	1335.1	1187.1	1077.9	1000.4	968.7	944.1
10°	2391.9	2208.7	1863.5	1550.0	1268.2	1049.8	873.6	764.4	708.1	686.9	676.4
12.5°	2451.8	2215.8	1782.5	1391.5	1060.3	803.2	669.3	609.4	584.8	567.2	563.6
15°	2539.9	2247.5	1705.0	1236.5	849.0	648.2	570.7	531.9	507.3	503.7	500.2
17.5°	2627.9	2275.7	1634.5	1077.9	704.5	563.6	510.8	479.1	461.5	457.9	457.9
20°	2730.1	2310.9	1557.0	926.5	602.4	507.3	465.0	440.3	419.2	415.7	415.7
22.5°	2849.9	2360.2	1483.1	792.6	535.4	465.0	429.8	401.6	384.0	380.4	380.4
25°	3011.9	2434.2	1423.2	694.0	489.7	429.8	398.1	373.4	359.3	352.3	352.3
27.5°	3191.6	2536.3	1380.9	634.1	457.9	401.6	369.9	348.7	334.7	327.6	327.6
30°	3392.3	2649.1	1352.7	609.4	440.3	376.9	348.7	327.6	310.0	306.5	306.5
32.5°	3614.3	2779.4	1335.1	612.9	436.8	359.3	327.6	306.5	292.4	285.3	285.3
35°	3860.9	2923.8	1324.5	634.1	443.9	345.2	310.0	288.9	274.8	267.7	267.7
37.5°	4135.6	3092.9	1324.5	655.2	461.5	341.7	292.4	271.2	260.7	253.6	253.6
40°	4392.8	3272.6	1338.6	679.9	479.1	341.7	278.3	260.7	246.6	239.5	239.5
42.5°	4593.6	3374.7	1349.2	704.5	489.7	338.2	264.2	246.6	236.0	229.0	229.0
45°	4822.6	3483.9	1328.1	715.1	489.7	331.1	253.6	236.0	225.5	218.4	218.4
47.5°	5076.2	3617.8	1324.5	722.2	479.1	317.0	243.1	225.5	218.4	211.4	211.4
50°	5333.3	3765.7	1331.6	718.6	465.0	295.9	229.0	218.4	207.8	200.8	200.8
52.5°	5625.7	3920.7	1345.7	711.6	433.3	271.2	218.4	207.8	197.3	190.2	186.7
55°	5949.8	4089.8	1373.8	697.5	391.0	246.6	207.8	197.3	183.2	176.1	172.6
57.5°	6323.2	4297.7	1405.6	669.3	345.2	225.5	197.3	183.2	162.0	151.5	148.0
60°	6679.0	4533.7	1440.8	602.4	299.4	204.3	186.7	165.6	144.4	137.4	133.9
62.5°	7013.7	4766.2	1458.4	482.6	253.6	186.7	176.1	151.5	130.3	123.3	119.8
65°	7228.5	5019.8	1419.6	327.6	207.8	172.6	162.0	140.9	119.8	109.2	109.2
67.5°	7242.6	5139.6	1285.8	214.9	169.1	155.0	148.0	126.8	105.7	98.6	95.1
70°	6886.8	4959.9	982.8	169.1	140.9	133.9	133.9	112.7	91.6	84.5	81.0
72.5°	6069.6	4392.8	627.0	137.4	119.8	112.7	112.7	95.1	81.0	70.5	66.9
75°	4790.9	3388.8	334.7	112.7	98.6	95.1	88.1	77.5	66.9	59.9	56.4
77.5°	2201.7	1493.6	155.0	81.0	74.0	74.0	66.9	56.4	52.8	45.8	45.8
80°	870.1	507.3	77.5	52.8	49.3	49.3	49.3	38.7	38.7	31.7	28.2
82.5°	239.5	105.7	38.7	31.7	31.7	31.7	28.2	24.7	24.7	21.1	21.1
85°	24.7	17.6	17.6	17.6	17.6	14.1	14.1	10.6	7.0	7.0	7.0
87.5°	10.6	10.6	10.6	10.6	10.6	7.0	3.5	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)