

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: P841230

Luminaire Tested: **ARCH4-150-727-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16140 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - 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

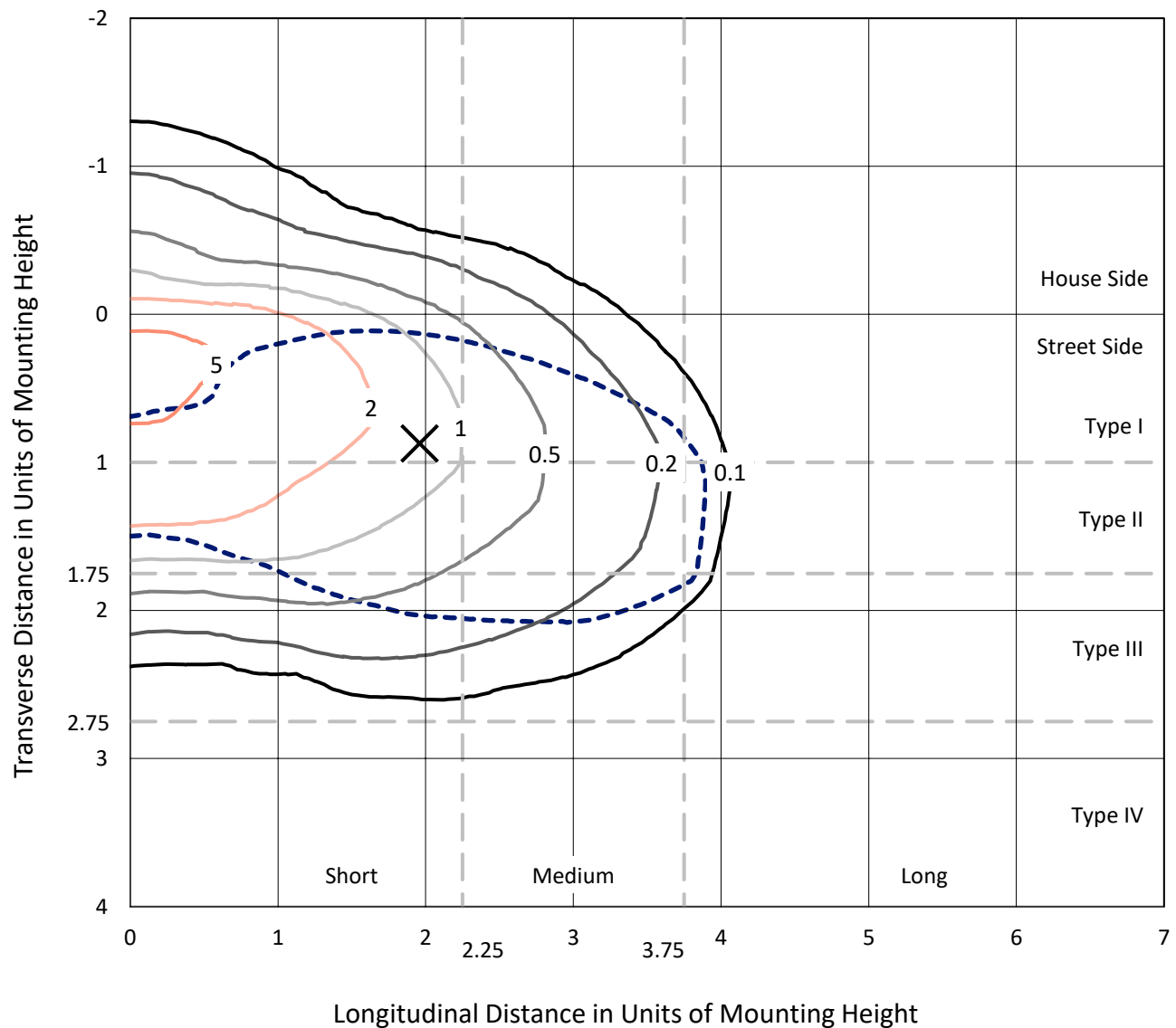


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

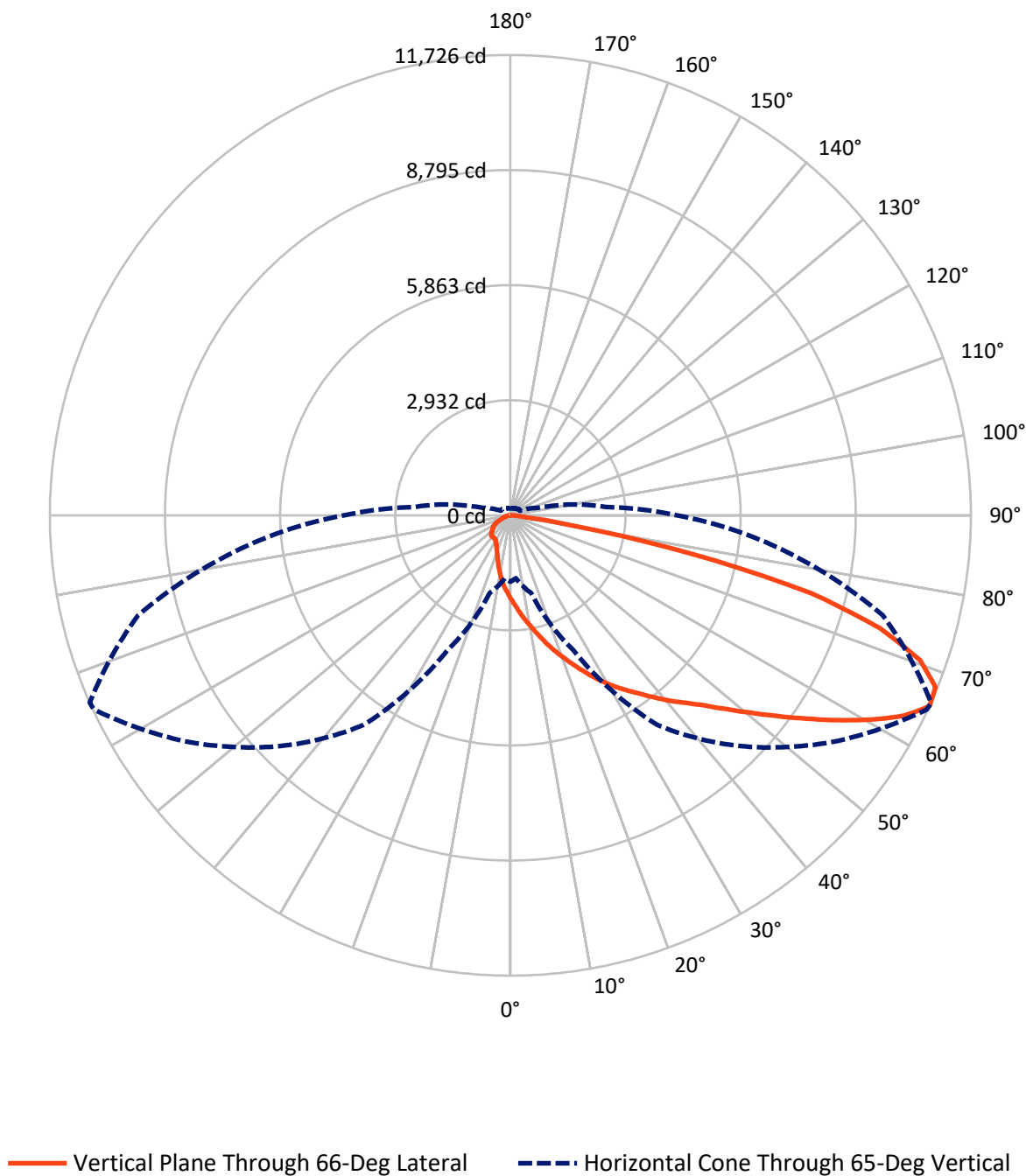


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc

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	1707.2	0.0	1707.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14432.8	0.0	14432.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	16140.0	0.0	16140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	1.3
10°-20°	687.1	4.3
20°-30°	1243.3	7.7
30°-40°	1944.1	12.0
40°-50°	2949.2	18.3
50°-60°	3747.1	23.2
60°-70°	3501.3	21.7
70°-80°	1740.1	10.8
80°-90°	116.9	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°	16140.0	100.0
0°-180°	16140.0	100.0

Coefficient of Utilization



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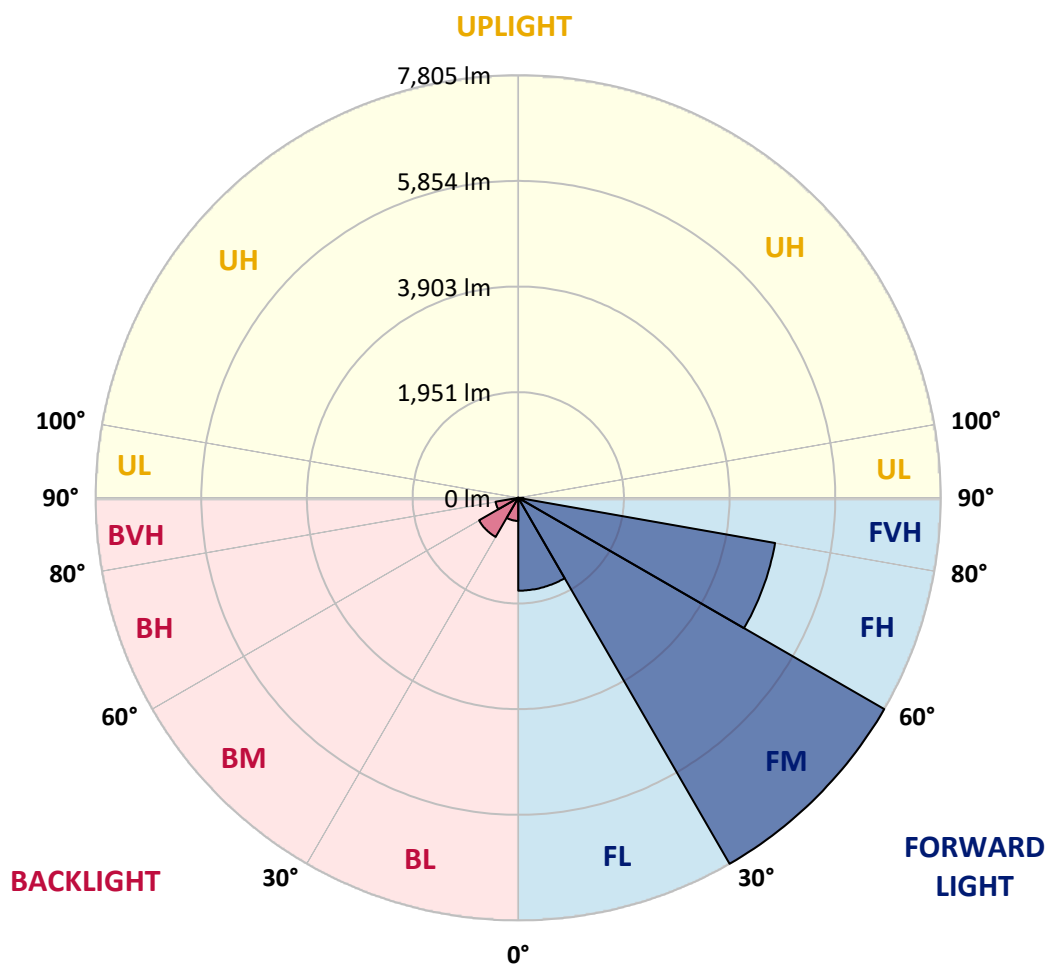
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.9	10.6			
FM	(30°-60°)	7805.5	48.4			
FH	(60°-80°)	4816.2	29.8			G2/5000
FVH	(80°-90°)	96.2	0.6			G1/100
BL	(0°-30°)	426.4	2.6	B1/500		
BM	(30°-60°)	835.0	5.2	B1/1000		
BH	(60°-80°)	425.2	2.6	B1/500		G1/500
BVH	(80°-90°)	20.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2494.9	2515.2	2525.3	2528.7	2450.9	2417.0	2383.2	2305.3	2288.4	2244.4	2186.8
5°	2934.9	2962.0	2955.3	2941.7	2846.9	2738.6	2650.6	2505.0	2481.3	2376.4	2247.8
7.5°	3368.2	3391.9	3385.2	3334.4	3229.4	3077.1	2931.6	2718.3	2684.4	2515.2	2308.7
10°	3730.5	3750.8	3747.4	3696.6	3571.4	3385.2	3209.1	2924.8	2884.2	2643.8	2359.5
12.5°	4028.3	4055.4	4052.0	4018.2	3906.5	3703.4	3503.6	3161.7	3111.0	2799.5	2430.5
15°	4261.9	4295.8	4295.8	4282.2	4204.4	4035.1	3808.3	3422.4	3361.5	2978.9	2518.6
17.5°	4404.1	4431.2	4454.9	4478.6	4424.4	4295.8	4089.3	3683.1	3618.7	3155.0	2610.0
20°	4478.6	4505.7	4522.6	4573.4	4583.5	4519.2	4356.7	3940.3	3872.6	3354.7	2714.9
22.5°	4600.4	4624.1	4627.5	4671.5	4691.8	4708.8	4607.2	4194.2	4140.1	3574.7	2833.4
25°	4803.6	4830.6	4820.5	4840.8	4844.2	4864.5	4854.3	4485.3	4431.2	3825.2	2975.6
27.5°	5064.2	5098.1	5091.3	5071.0	5040.5	5023.6	5067.6	4779.9	4729.1	4075.7	3121.1
30°	5345.2	5385.8	5375.6	5335.0	5253.8	5182.7	5243.6	5057.4	5010.0	4333.0	3283.6
32.5°	5629.5	5676.9	5673.5	5605.8	5467.0	5345.2	5436.6	5318.1	5284.2	4610.6	3459.6
35°	5815.7	5876.7	5869.9	5829.3	5649.8	5544.9	5656.6	5585.5	5561.8	4949.1	3713.5
37.5°	6117.0	6181.3	6123.8	6022.2	5815.7	5761.6	5897.0	5886.8	5869.9	5307.9	3981.0
40°	6848.2	6943.0	6790.6	6374.3	6035.8	5988.4	6181.3	6221.9	6205.0	5663.4	4221.3
42.5°	7613.2	7755.4	7518.5	6943.0	6435.2	6262.6	6492.8	6550.3	6530.0	5968.0	4438.0
45°	8077.0	8137.9	7901.0	7454.1	7142.7	6594.3	6824.5	6919.3	6902.4	6333.6	4715.5
47.5°	8456.1	8432.5	8161.6	7860.4	7917.9	7061.5	7200.3	7386.4	7372.9	6736.5	5020.2
50°	8537.4	8483.2	8374.9	8185.3	8337.7	7535.4	7596.3	7917.9	7904.4	7183.3	5328.3
52.5°	7965.3	7894.2	8188.7	8347.8	8297.0	7880.7	8033.0	8500.2	8493.4	7667.4	5622.8
55°	6536.8	6479.2	7271.3	8093.9	8253.0	8124.4	8517.1	9106.1	9143.3	8181.9	5890.2
57.5°	5142.1	5081.1	5859.7	7457.5	8090.5	8347.8	9082.4	9800.1	9847.5	8740.5	6144.1
60°	4099.4	4008.0	4603.8	6455.5	7785.9	8520.5	9627.4	10561.7	10568.5	9251.7	6299.8
62.5°	2786.0	2684.4	3344.5	5186.1	7274.7	8547.5	10047.2	11218.4	11245.5	9634.2	6326.9
65°	1692.6	1608.0	2054.8	3788.0	6519.8	8317.4	10053.9	11702.5	11726.2	9810.2	6164.4
67.5°	981.7	947.8	1174.7	2359.5	5267.3	7697.9	9630.8	11628.0	11672.1	9735.7	5795.4
70°	572.1	568.7	653.3	1167.9	3716.9	6469.1	8686.3	11001.8	11066.1	9346.4	5230.1
72.5°	419.8	426.5	460.4	626.3	2153.0	4658.0	7356.0	9742.5	9840.7	8584.8	4424.4
75°	331.7	335.1	365.6	426.5	1130.6	2633.7	5511.1	7819.7	7897.6	7227.3	3456.3
77.5°	247.1	253.9	277.6	301.3	524.7	1208.5	3100.8	4817.1	4688.5	3967.4	1668.9
80°	179.4	196.3	206.5	216.7	277.6	467.2	930.9	1679.0	1665.5	1733.2	788.7
82.5°	115.1	128.6	138.8	145.6	165.9	223.4	277.6	375.8	406.2	673.6	314.8
85°	50.8	57.5	64.3	77.9	71.1	77.9	115.1	74.5	64.3	101.6	57.5
87.5°	0.0	0.0	10.2	16.9	13.5	6.8	20.3	13.5	10.2	10.2	10.2
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°	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0	2136.0
2.5°	2156.4	2119.1	2041.3	1966.8	1922.8	1865.2	1814.4	1767.1	1763.7	1750.1	1726.4
5°	2183.4	2112.3	1966.8	1828.0	1723.1	1611.3	1516.6	1442.1	1415.0	1394.7	1367.6
7.5°	2210.5	2098.8	1882.2	1679.0	1513.2	1357.5	1245.7	1144.2	1113.7	1086.6	1069.7
10°	2220.7	2075.1	1784.0	1513.2	1296.5	1130.6	1012.2	937.7	910.6	897.1	886.9
12.5°	2251.1	2061.6	1692.6	1357.5	1106.9	954.6	870.0	826.0	815.8	805.7	795.5
15°	2291.8	2061.6	1601.2	1205.1	958.0	836.1	785.4	754.9	748.1	744.7	738.0
17.5°	2335.8	2061.6	1513.2	1076.5	849.7	758.3	721.0	704.1	700.7	697.3	694.0
20°	2396.7	2065.0	1418.4	964.8	771.8	700.7	670.3	650.0	646.6	643.2	643.2
22.5°	2457.6	2071.7	1327.0	880.1	721.0	656.7	619.5	599.2	592.4	592.4	592.4
25°	2535.5	2092.0	1242.4	809.1	677.0	616.1	568.7	551.8	548.4	548.4	545.0
27.5°	2626.9	2115.7	1167.9	754.9	633.0	568.7	521.3	504.4	497.6	497.6	494.2
30°	2725.1	2139.4	1106.9	714.3	589.0	521.3	477.3	457.0	450.2	453.6	450.2
32.5°	2833.4	2173.3	1059.6	687.2	548.4	480.7	440.1	416.4	413.0	413.0	409.6
35°	3016.2	2268.1	1052.8	673.6	514.5	450.2	409.6	385.9	382.5	382.5	379.1
37.5°	3212.5	2376.4	1083.3	666.9	487.5	423.1	385.9	362.2	358.8	358.8	358.8
40°	3378.4	2457.6	1117.1	666.9	470.5	399.4	365.6	345.3	345.3	345.3	345.3
42.5°	3490.1	2464.4	1110.3	666.9	457.0	382.5	352.1	331.7	331.7	335.1	331.7
45°	3656.0	2498.3	1083.3	656.7	446.8	369.0	338.5	321.6	318.2	321.6	321.6
47.5°	3852.3	2559.2	1056.2	616.1	443.5	355.4	328.4	308.1	304.7	308.1	304.7
50°	4038.5	2613.3	1042.6	561.9	436.7	341.9	314.8	294.5	291.1	294.5	291.1
52.5°	4194.2	2637.0	1018.9	524.7	419.8	328.4	301.3	281.0	274.2	277.6	277.6
55°	4319.5	2630.3	985.1	494.2	389.3	314.8	284.4	267.4	257.3	257.3	253.9
57.5°	4434.6	2633.7	954.6	463.8	355.4	294.5	270.8	250.5	237.0	233.6	230.2
60°	4478.6	2616.7	900.5	423.1	321.6	277.6	253.9	230.2	216.7	213.3	209.9
62.5°	4417.6	2555.8	829.4	352.1	291.1	257.3	237.0	213.3	199.7	196.3	193.0
65°	4245.0	2440.7	721.0	277.6	264.0	233.6	216.7	199.7	182.8	176.0	172.6
67.5°	3950.5	2274.8	585.6	223.4	233.6	213.3	203.1	182.8	162.5	155.7	152.3
70°	3530.7	2054.8	440.1	189.6	206.5	189.6	182.8	162.5	145.6	138.8	135.4
72.5°	2941.7	1699.4	308.1	162.5	179.4	165.9	159.1	145.6	128.6	118.5	118.5
75°	2224.1	1218.7	203.1	138.8	148.9	142.2	132.0	121.9	111.7	104.9	101.6
77.5°	958.0	473.9	125.3	104.9	121.9	118.5	104.9	98.2	94.8	88.0	88.0
80°	413.0	193.0	77.9	77.9	88.0	84.6	81.2	74.5	74.5	71.1	67.7
82.5°	152.3	77.9	47.4	57.5	64.3	57.5	57.5	57.5	57.5	54.2	54.2
85°	37.2	23.7	23.7	33.9	37.2	33.9	37.2	33.9	33.9	33.9	30.5
87.5°	10.2	10.2	13.5	13.5	13.5	13.5	13.5	10.2	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)