

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: P1211016

Luminaire Tested: **ARCH4-140-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-140-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17032 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

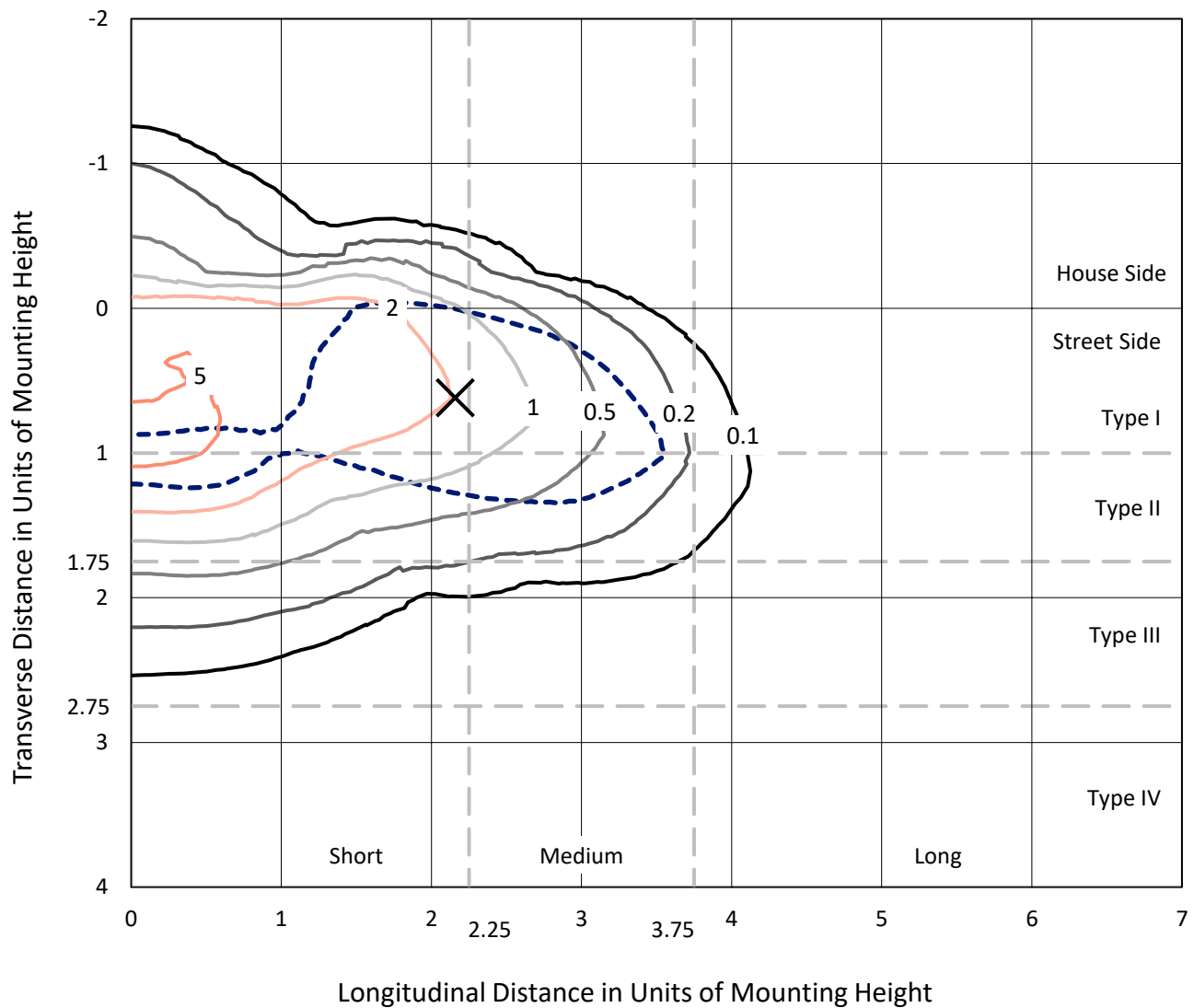
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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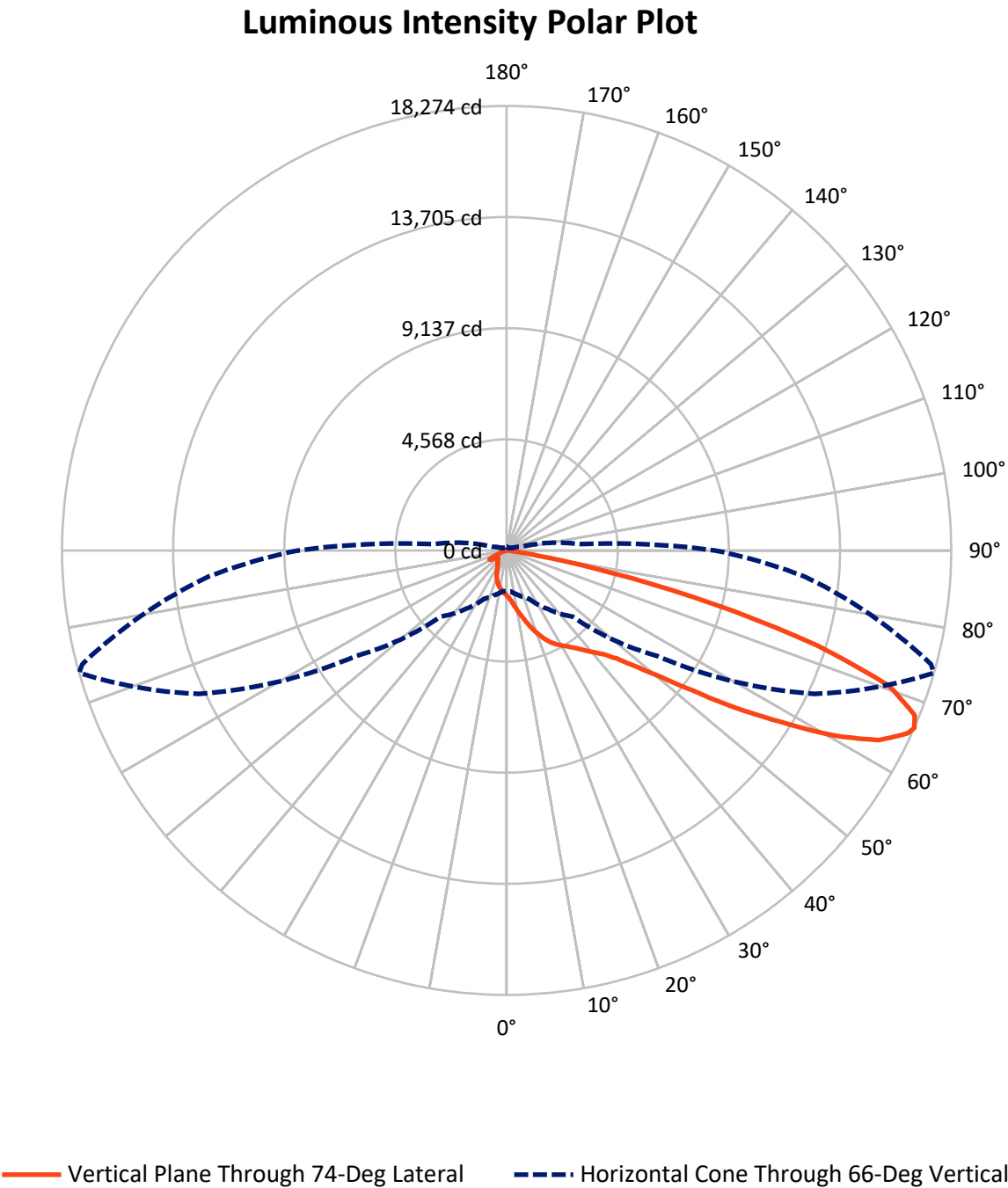
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1669.7	0.0	1669.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15362.3	0.0	15362.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	17032.0	0.0	17032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.1
10°-20°	581.8	3.4
20°-30°	1110.3	6.5
30°-40°	1946.0	11.4
40°-50°	3336.9	19.6
50°-60°	4339.9	25.5
60°-70°	3928.7	23.1
70°-80°	1515.9	8.9
80°-90°	91.2	0.5
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°	17032.0	100.0
0°-180°	17032.0	100.0

Coefficient of Utilization



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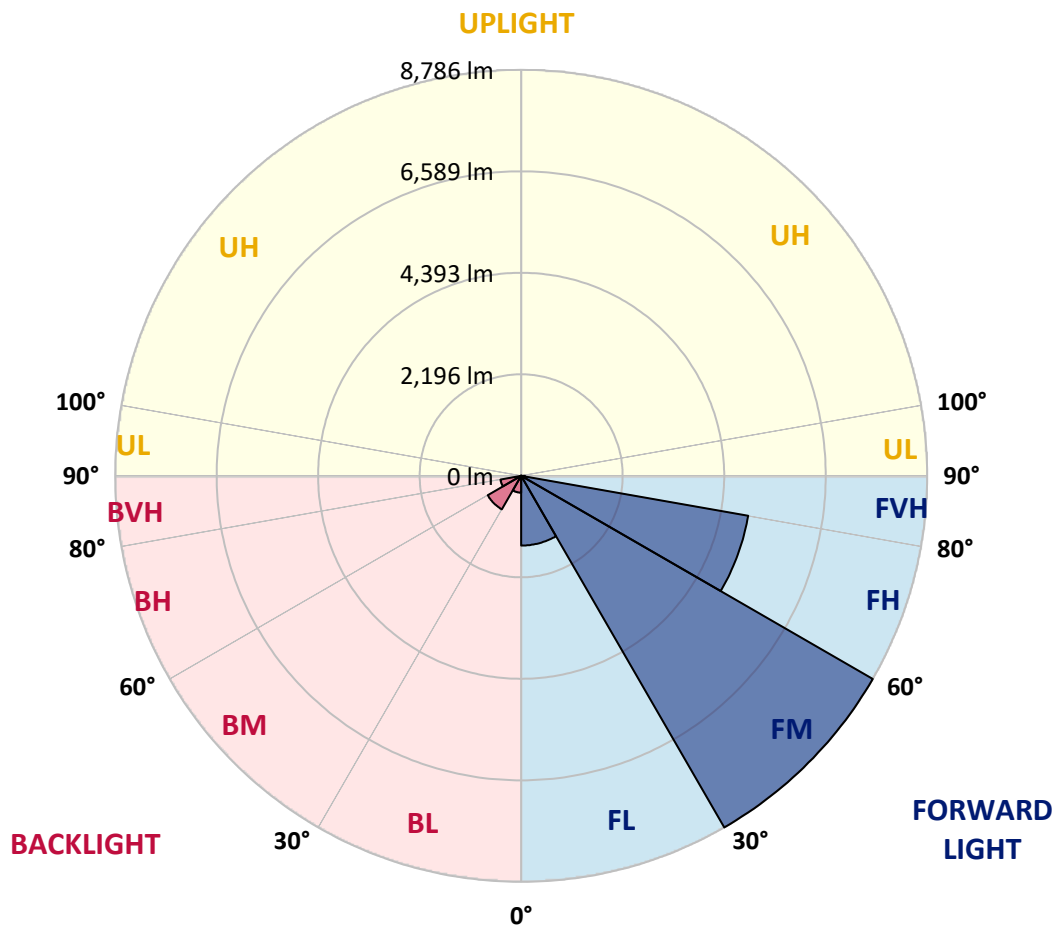
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1509.3	8.9			
FM	(30°-60°)	8786.0	51.6			
FH	(60°-80°)	4988.1	29.3			G2/5000
FVH	(80°-90°)	79.0	0.5			G1/100
BL	(0°-30°)	364.2	2.1	B1/500		
BM	(30°-60°)	836.8	4.9	B1/1000		
BH	(60°-80°)	456.5	2.7	B1/500		G1/500
BVH	(80°-90°)	12.2	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	2232.3	2213.9	2180.3	2177.2	2149.7	2116.1	2058.0	1996.8	1954.0	1947.9	1895.9
5°	2672.6	2663.4	2629.8	2608.4	2556.4	2476.9	2342.3	2207.8	2094.6	2082.4	1966.2
7.5°	2788.8	2794.9	2801.0	2822.4	2804.1	2767.4	2666.5	2476.9	2299.5	2272.0	2070.2
10°	2807.1	2801.0	2801.0	2828.5	2880.5	2932.5	2920.3	2758.2	2528.9	2495.2	2213.9
12.5°	3005.9	3015.1	2993.7	2981.4	2972.3	2999.8	3091.5	3021.2	2770.4	2742.9	2388.2
15°	3262.8	3259.7	3229.1	3229.1	3201.6	3155.7	3213.8	3265.8	3060.9	3027.3	2587.0
17.5°	3449.3	3461.5	3458.5	3476.8	3467.6	3406.5	3375.9	3482.9	3360.6	3317.8	2813.2
20°	3599.1	3632.8	3645.0	3703.1	3730.6	3687.8	3608.3	3675.6	3648.0	3608.3	3042.6
22.5°	3758.1	3785.7	3807.1	3908.0	3984.4	3975.2	3874.3	3859.0	3926.3	3889.6	3268.9
25°	3917.1	3929.4	3993.6	4115.9	4238.2	4268.8	4164.8	4045.6	4177.1	4143.4	3470.7
27.5°	4091.4	4097.6	4174.0	4323.8	4495.1	4559.3	4476.7	4256.6	4369.7	4369.7	3654.2
30°	4409.5	4470.6	4501.2	4635.7	4785.6	4874.3	4776.4	4479.8	4540.9	4568.5	3846.8
32.5°	5094.4	5103.6	5094.4	5152.5	5183.1	5235.1	5121.9	4730.5	4715.2	4745.8	4036.4
35°	6140.2	6103.5	6005.7	5920.1	5742.7	5644.8	5498.1	5051.6	4929.3	4972.1	4222.9
37.5°	7409.2	7357.3	7134.0	6871.1	6491.9	6100.5	5917.0	5443.0	5201.5	5256.5	4424.7
40°	8620.2	8586.5	8320.5	7996.4	7348.1	6678.4	6290.1	5773.3	5504.2	5525.6	4629.6
42.5°	9617.0	9610.9	9387.7	9048.3	8216.5	7302.2	6730.4	6097.4	5822.2	5855.8	4843.7
45°	10372.3	10314.2	10149.1	9904.5	9057.4	7950.5	7262.5	6589.7	6332.9	6372.6	5164.8
47.5°	10372.3	10381.5	10488.5	10464.1	9644.5	8559.0	7843.5	7210.5	7088.2	7124.9	5693.8
50°	9528.3	9614.0	10091.0	10491.6	9950.3	9033.0	8470.3	7987.2	8112.6	8167.6	6617.2
52.5°	7858.7	8002.5	8831.2	9745.5	9724.1	9271.5	9118.6	8974.9	9537.5	9635.4	7981.1
55°	5972.0	6066.8	7146.3	8348.0	8739.4	9075.8	9684.3	10228.6	11424.2	11402.8	9366.3
57.5°	4461.4	4550.1	5479.7	6813.0	7329.7	8228.8	9974.8	11662.7	13295.7	13378.2	10665.9
60°	3281.1	3348.4	4140.4	5235.1	5981.2	6932.2	9858.6	13075.5	15451.5	15356.7	11812.6
62.5°	2428.0	2464.6	3036.5	3749.0	4739.7	5647.9	9127.8	14041.8	17173.0	16980.4	12451.7
65°	1877.5	1889.8	2186.4	2565.6	3446.2	4391.1	8039.2	14188.6	18124.0	17919.2	12439.4
66°	1672.7	1681.8	1898.9	2192.5	2932.5	3843.8	7562.1	13953.1	18273.9	18056.8	12286.6
67.5°	1403.6	1397.5	1525.9	1718.5	2201.7	2966.1	6715.1	13265.1	18096.5	17986.4	11797.3
70°	1039.7	1042.7	1107.0	1152.8	1287.4	1642.1	4849.8	11506.8	16677.7	16671.6	10454.9
72.5°	770.6	779.8	828.7	837.9	804.2	889.8	2794.9	9152.2	13341.5	13344.6	7815.9
75°	577.9	593.2	608.5	614.6	584.1	562.6	1262.9	6158.6	8776.1	8711.9	4424.7
77.5°	440.3	446.5	458.7	449.5	443.4	388.4	526.0	3002.8	4333.0	3947.7	1434.1
80°	321.1	321.1	333.3	321.1	318.0	278.3	287.4	963.2	1272.1	1058.0	308.8
82.5°	201.8	198.8	207.9	204.9	198.8	177.4	168.2	269.1	293.6	263.0	149.8
85°	113.1	110.1	107.0	104.0	94.8	79.5	91.7	100.9	134.5	137.6	107.0
87.5°	39.8	39.8	36.7	33.6	27.5	27.5	33.6	33.6	48.9	48.9	55.0
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°	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2	1859.2
2.5°	1871.4	1837.8	1788.9	1724.6	1678.8	1632.9	1584.0	1556.5	1516.7	1507.5	1519.8
5°	1905.1	1843.9	1721.6	1587.0	1470.8	1366.9	1269.0	1210.9	1152.8	1131.4	1140.6
7.5°	1975.4	1871.4	1663.5	1446.4	1253.7	1097.8	981.6	914.3	862.3	840.9	847.0
10°	2079.4	1920.3	1608.4	1287.4	1039.7	874.6	776.7	733.9	703.3	691.1	694.1
12.5°	2204.7	1990.7	1538.1	1128.4	856.2	712.5	666.6	657.4	651.3	645.2	648.3
15°	2345.4	2051.8	1455.6	972.4	712.5	633.0	617.7	614.6	611.6	611.6	611.6
17.5°	2492.2	2106.9	1363.8	825.6	620.7	584.1	574.9	574.9	574.9	577.9	577.9
20°	2629.8	2149.7	1256.8	694.1	568.8	538.2	532.1	532.1	535.1	538.2	538.2
22.5°	2764.3	2168.0	1131.4	602.4	526.0	498.4	489.3	489.3	489.3	492.3	492.3
25°	2880.5	2168.0	1006.0	544.3	489.3	461.7	449.5	446.5	449.5	449.5	449.5
27.5°	2978.4	2158.9	883.7	504.5	452.6	425.0	412.8	409.8	415.9	418.9	418.9
30°	3082.3	2146.6	785.9	467.9	422.0	394.5	382.2	382.2	391.4	403.6	403.6
32.5°	3183.3	2155.8	709.4	437.3	391.4	370.0	357.8	360.8	379.2	397.5	397.5
35°	3290.3	2174.2	663.6	415.9	370.0	348.6	339.4	348.6	366.9	385.3	385.3
37.5°	3397.3	2195.6	636.0	397.5	351.7	330.3	324.1	336.4	357.8	376.1	379.2
40°	3510.4	2213.9	605.5	379.2	339.4	315.0	311.9	324.1	351.7	370.0	373.1
42.5°	3651.1	2250.6	568.8	363.9	327.2	296.6	299.7	308.8	336.4	363.9	366.9
45°	3926.3	2366.8	532.1	348.6	311.9	287.4	281.3	287.4	318.0	348.6	354.7
47.5°	4443.1	2629.8	492.3	333.3	296.6	281.3	256.9	263.0	290.5	324.1	327.2
50°	5433.8	3189.4	470.9	318.0	284.4	259.9	232.4	232.4	253.8	284.4	284.4
52.5°	6978.1	4192.4	483.1	305.8	269.1	238.5	211.0	207.9	220.2	241.6	241.6
55°	8644.6	5293.2	529.0	293.6	250.7	226.3	195.7	180.4	189.6	201.8	201.8
57.5°	9965.6	5846.7	654.4	287.4	229.3	217.1	177.4	156.0	165.1	177.4	177.4
60°	10546.6	5522.5	795.0	293.6	214.1	201.8	159.0	137.6	152.9	165.1	168.2
62.5°	10075.7	4547.1	853.1	278.3	192.6	180.4	156.0	128.4	146.8	156.0	159.0
65°	9057.4	3455.4	666.6	241.6	177.4	156.0	140.7	122.3	137.6	146.8	146.8
66°	8574.3	3012.0	568.8	223.2	171.2	146.8	134.5	122.3	134.5	140.7	143.7
67.5°	7825.1	2376.0	422.0	195.7	159.0	134.5	125.4	116.2	128.4	134.5	134.5
70°	6118.8	1415.8	253.8	152.9	137.6	119.3	113.1	107.0	116.2	119.3	119.3
72.5°	3831.5	672.7	162.1	113.1	116.2	113.1	94.8	100.9	104.0	107.0	107.0
75°	1856.1	266.0	110.1	82.6	94.8	107.0	76.4	88.7	91.7	97.9	94.8
77.5°	516.8	128.4	70.3	61.2	82.6	82.6	58.1	70.3	82.6	104.0	94.8
80°	149.8	82.6	45.9	45.9	58.1	58.1	39.8	48.9	55.0	61.2	64.2
82.5°	104.0	55.0	30.6	33.6	33.6	36.7	24.5	24.5	30.6	30.6	33.6
85°	82.6	24.5	18.3	21.4	15.3	18.3	12.2	12.2	15.3	12.2	12.2
87.5°	33.6	12.2	12.2	12.2	9.2	9.2	6.1	3.1	3.1	3.1	3.1
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)