

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: P1210484

Luminaire Tested: **ARCH3-140-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210484
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: ARCH3-140-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12461 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 142.5
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

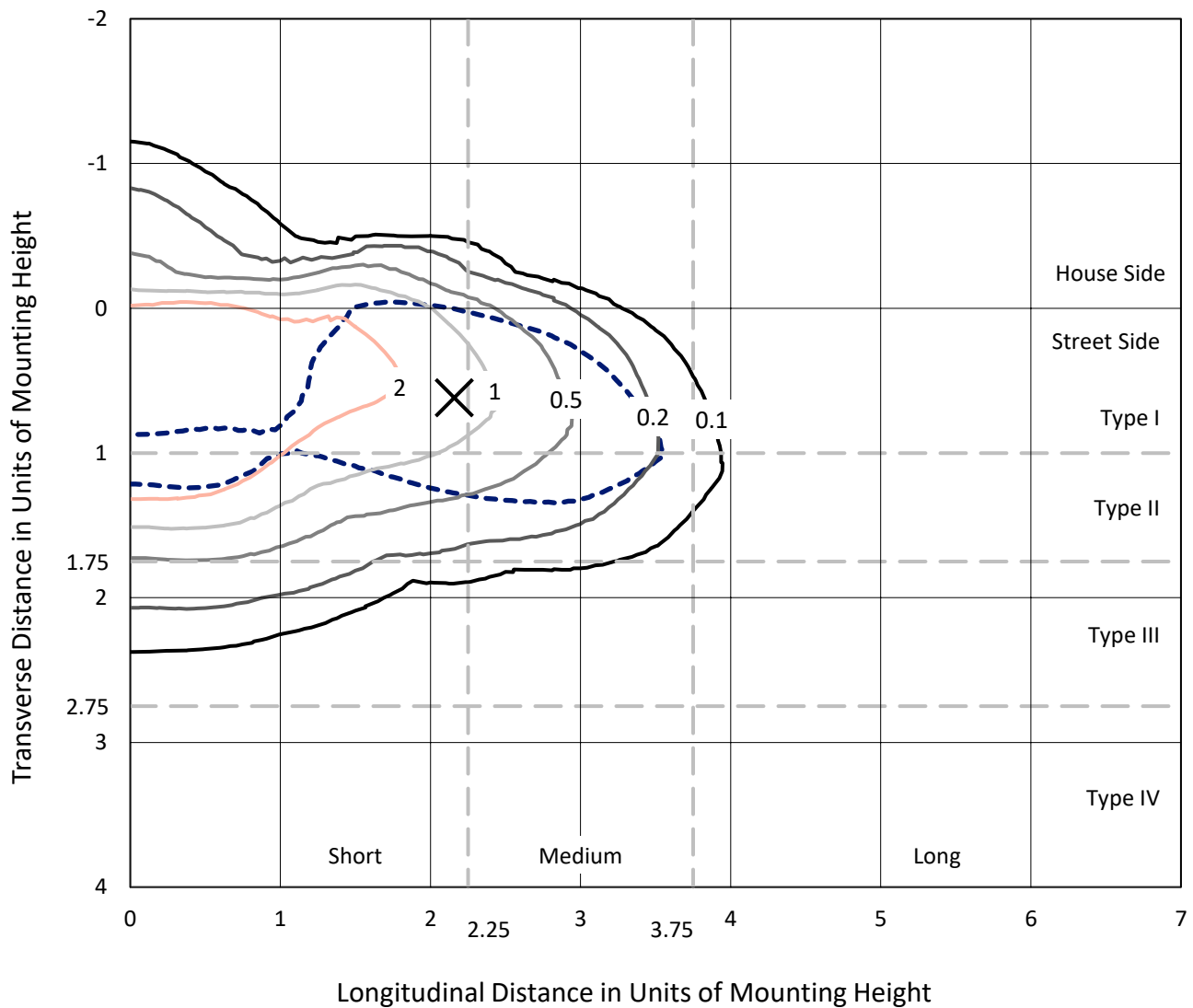


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Iso-Footcandle Lines of Horizontal Illumination

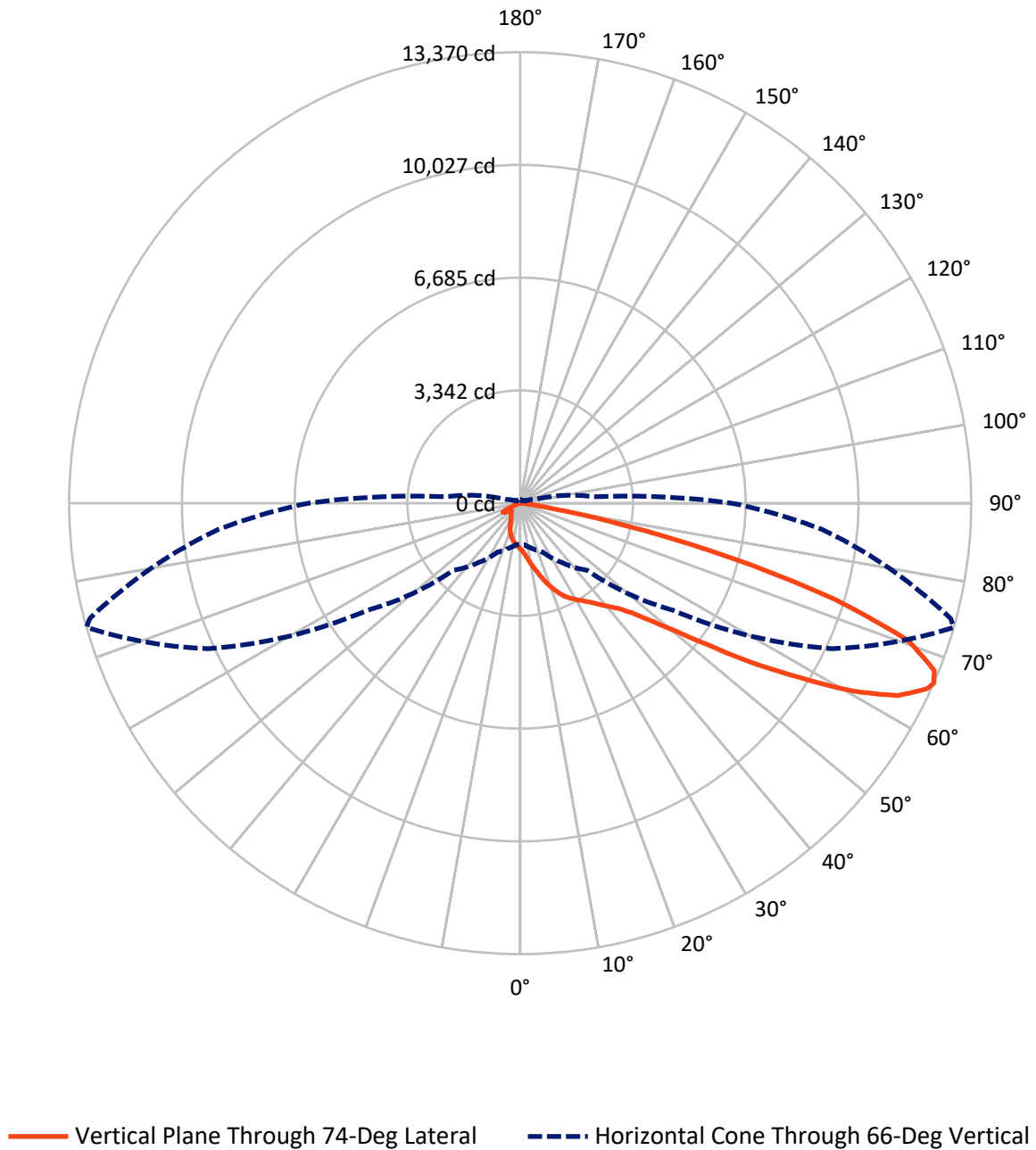
✕ Max cd
- - - 1/2 Max cd



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	1221.6	0.0	1221.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11239.4	0.0	11239.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	12461.0	0.0	12461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.1
10°-20°	425.6	3.4
20°-30°	812.3	6.5
30°-40°	1423.7	11.4
40°-50°	2441.3	19.6
50°-60°	3175.2	25.5
60°-70°	2874.3	23.1
70°-80°	1109.1	8.9
80°-90°	66.7	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°	12461.0	100.0
0°-180°	12461.0	100.0

Coefficient of Utilization



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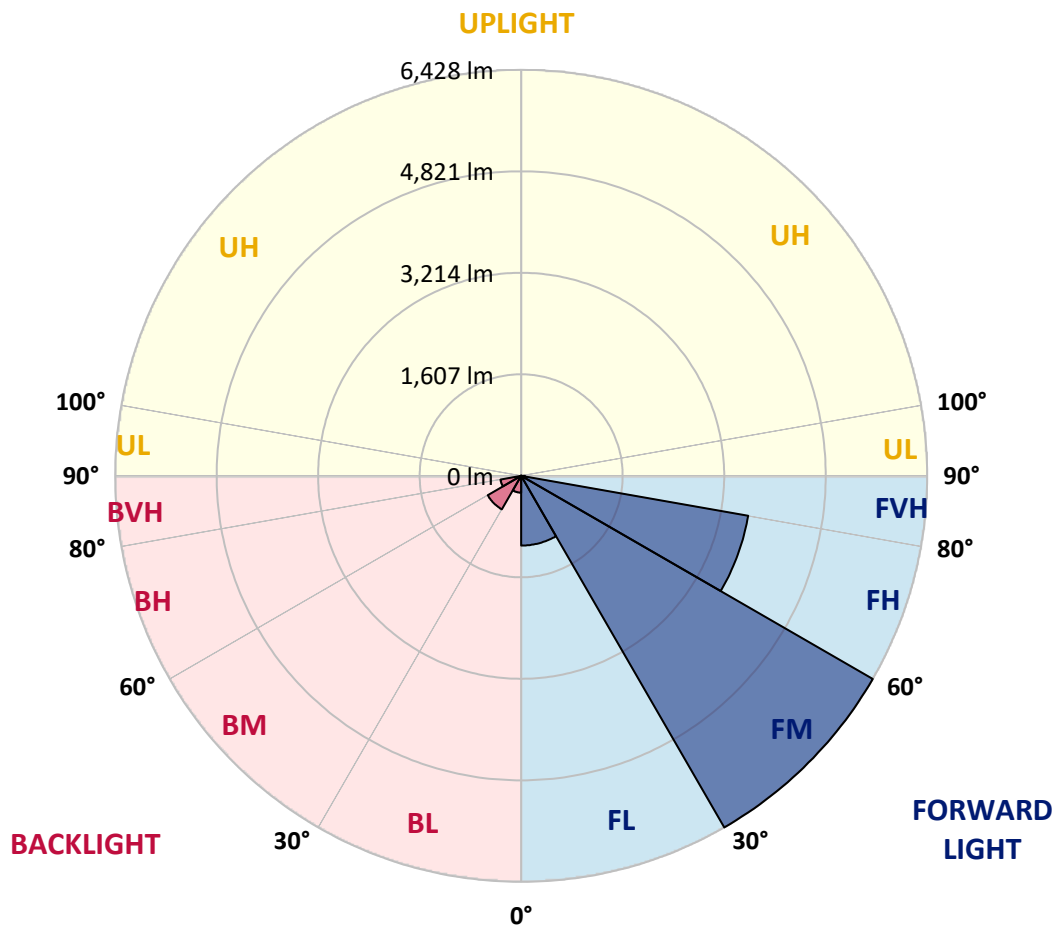
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1104.2	8.9			
FM	(30°-60°)	6428.0	51.6			
FH	(60°-80°)	3649.4	29.3			G2/5000
FVH	(80°-90°)	57.8	0.5			G1/100
BL	(0°-30°)	266.5	2.1	B1/500		
BM	(30°-60°)	612.2	4.9	B1/1000		
BH	(60°-80°)	334.0	2.7	B1/500		G1/500
BVH	(80°-90°)	8.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2
2.5°	1633.2	1619.7	1595.1	1592.9	1572.8	1548.2	1505.6	1460.9	1429.6	1425.1	1387.1
5°	1955.3	1948.6	1924.0	1908.3	1870.3	1812.1	1713.7	1615.3	1532.5	1523.5	1438.5
7.5°	2040.3	2044.8	2049.3	2064.9	2051.5	2024.7	1950.9	1812.1	1682.4	1662.2	1514.6
10°	2053.8	2049.3	2049.3	2069.4	2107.5	2145.5	2136.5	2018.0	1850.2	1825.6	1619.7
12.5°	2199.2	2205.9	2190.2	2181.3	2174.6	2194.7	2261.8	2210.4	2026.9	2006.8	1747.3
15°	2387.1	2384.9	2362.5	2362.5	2342.4	2308.8	2351.3	2389.3	2239.5	2214.8	1892.7
17.5°	2523.6	2532.5	2530.3	2543.7	2537.0	2492.3	2469.9	2548.2	2458.7	2427.4	2058.2
20°	2633.2	2657.8	2666.8	2709.3	2729.4	2698.1	2639.9	2689.1	2669.0	2639.9	2226.0
22.5°	2749.5	2769.7	2785.3	2859.2	2915.1	2908.4	2834.5	2823.4	2872.6	2845.7	2391.6
25°	2865.9	2874.8	2921.8	3011.3	3100.8	3123.2	3047.1	2959.8	3056.0	3031.4	2539.2
27.5°	2993.4	2997.9	3053.8	3163.4	3288.7	3335.7	3275.3	3114.2	3197.0	3197.0	2673.5
30°	3226.1	3270.8	3293.2	3391.6	3501.2	3566.1	3494.5	3277.5	3322.3	3342.4	2814.4
32.5°	3727.2	3733.9	3727.2	3769.7	3792.1	3830.1	3747.3	3461.0	3449.8	3472.2	2953.1
35°	4492.3	4465.5	4393.9	4331.2	4201.5	4129.9	4022.5	3695.9	3606.4	3637.7	3089.6
37.5°	5420.8	5382.7	5219.4	5027.0	4749.6	4463.2	4329.0	3982.2	3805.5	3845.8	3237.2
40°	6306.7	6282.1	6087.5	5850.3	5376.0	4886.1	4601.9	4223.9	4027.0	4042.6	3387.1
42.5°	7036.0	7031.6	6868.2	6619.9	6011.4	5342.5	4924.1	4461.0	4259.7	4284.3	3543.7
45°	7588.6	7546.1	7425.3	7246.3	6626.6	5816.8	5313.4	4821.2	4633.3	4662.4	3778.7
47.5°	7588.6	7595.3	7673.6	7655.7	7056.2	6262.0	5738.5	5275.3	5185.9	5212.7	4165.7
50°	6971.2	7033.8	7382.8	7675.9	7279.9	6608.7	6197.1	5843.6	5935.3	5975.6	4841.3
52.5°	5749.6	5854.8	6461.1	7130.0	7114.3	6783.2	6671.4	6566.2	6977.9	7049.5	5839.1
55°	4369.3	4438.6	5228.4	6107.6	6394.0	6640.0	7085.3	7483.5	8358.2	8342.6	6852.6
57.5°	3264.1	3329.0	4009.1	4984.5	5362.6	6020.3	7297.8	8532.7	9727.4	9787.8	7803.4
60°	2400.5	2449.7	3029.2	3830.1	4376.0	5071.8	7212.8	9566.3	11304.6	11235.3	8642.4
62.5°	1776.3	1803.2	2221.6	2742.8	3467.7	4132.1	6678.1	10273.3	12564.2	12423.2	9109.9
65°	1373.6	1382.6	1599.6	1877.0	2521.3	3212.6	5881.6	10380.7	13260.0	13110.1	9101.0
66°	1223.8	1230.5	1389.3	1604.1	2145.5	2812.2	5532.6	10208.4	13369.6	13210.7	8989.1
67.5°	1026.9	1022.4	1116.4	1257.3	1610.8	2170.1	4912.9	9705.0	13239.8	13159.3	8631.2
70°	760.7	762.9	809.9	843.4	941.9	1201.4	3548.2	8418.6	12201.8	12197.3	7649.0
72.5°	563.8	570.5	606.3	613.0	588.4	651.0	2044.8	6696.0	9761.0	9763.2	5718.3
75°	422.8	434.0	445.2	449.7	427.3	411.6	924.0	4505.7	6420.8	6373.8	3237.2
77.5°	322.2	326.6	335.6	328.9	324.4	284.1	384.8	2196.9	3170.1	2888.2	1049.3
80°	234.9	234.9	243.9	234.9	232.7	203.6	210.3	704.7	930.7	774.1	226.0
82.5°	147.7	145.4	152.1	149.9	145.4	129.8	123.0	196.9	214.8	192.4	109.6
85°	82.8	80.5	78.3	76.1	69.4	58.2	67.1	73.8	98.4	100.7	78.3
87.5°	29.1	29.1	26.8	24.6	20.1	20.1	24.6	24.6	35.8	35.8	40.3
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°	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2	1360.2
2.5°	1369.2	1344.6	1308.8	1261.8	1228.2	1194.7	1158.9	1138.7	1109.7	1102.9	1111.9
5°	1393.8	1349.0	1259.6	1161.1	1076.1	1000.0	928.4	885.9	843.4	827.8	834.5
7.5°	1445.2	1369.2	1217.0	1058.2	917.3	803.2	718.1	668.9	630.9	615.2	619.7
10°	1521.3	1405.0	1176.8	941.9	760.7	639.8	568.3	536.9	514.6	505.6	507.8
12.5°	1613.0	1456.4	1125.3	825.5	626.4	521.3	487.7	481.0	476.5	472.1	474.3
15°	1715.9	1501.2	1064.9	711.4	521.3	463.1	451.9	449.7	447.4	447.4	447.4
17.5°	1823.3	1541.4	997.8	604.0	454.2	427.3	420.6	420.6	420.6	422.8	422.8
20°	1924.0	1572.8	919.5	507.8	416.1	393.7	389.3	389.3	391.5	393.7	393.7
22.5°	2022.4	1586.2	827.8	440.7	384.8	364.7	358.0	358.0	358.0	360.2	360.2
25°	2107.5	1586.2	736.0	398.2	358.0	337.8	328.9	326.6	328.9	328.9	328.9
27.5°	2179.0	1579.5	646.6	369.1	331.1	311.0	302.0	299.8	304.3	306.5	306.5
30°	2255.1	1570.5	575.0	342.3	308.7	288.6	279.7	279.7	286.4	295.3	295.3
32.5°	2328.9	1577.2	519.0	319.9	286.4	270.7	261.8	264.0	277.4	290.8	290.8
35°	2407.2	1590.7	485.5	304.3	270.7	255.0	248.3	255.0	268.5	281.9	281.9
37.5°	2485.5	1606.3	465.3	290.8	257.3	241.6	237.1	246.1	261.8	275.2	277.4
40°	2568.3	1619.7	443.0	277.4	248.3	230.4	228.2	237.1	257.3	270.7	272.9
42.5°	2671.2	1646.6	416.1	266.2	239.4	217.0	219.2	226.0	246.1	266.2	268.5
45°	2872.6	1731.6	389.3	255.0	228.2	210.3	205.8	210.3	232.7	255.0	259.5
47.5°	3250.7	1924.0	360.2	243.9	217.0	205.8	187.9	192.4	212.5	237.1	239.4
50°	3975.5	2333.4	344.5	232.7	208.1	190.2	170.0	170.0	185.7	208.1	208.1
52.5°	5105.3	3067.2	353.5	223.7	196.9	174.5	154.4	152.1	161.1	176.7	176.7
55°	6324.6	3872.6	387.0	214.8	183.5	165.6	143.2	132.0	138.7	147.7	147.7
57.5°	7291.1	4277.6	478.8	210.3	167.8	158.8	129.8	114.1	120.8	129.8	129.8
60°	7716.1	4040.4	581.7	214.8	156.6	147.7	116.3	100.7	111.9	120.8	123.0
62.5°	7371.6	3326.7	624.2	203.6	140.9	132.0	114.1	94.0	107.4	114.1	116.3
65°	6626.6	2528.1	487.7	176.7	129.8	114.1	102.9	89.5	100.7	107.4	107.4
66°	6273.1	2203.7	416.1	163.3	125.3	107.4	98.4	89.5	98.4	102.9	105.1
67.5°	5725.0	1738.3	308.7	143.2	116.3	98.4	91.7	85.0	94.0	98.4	98.4
70°	4476.7	1035.8	185.7	111.9	100.7	87.3	82.8	78.3	85.0	87.3	87.3
72.5°	2803.2	492.2	118.6	82.8	85.0	82.8	69.4	73.8	76.1	78.3	78.3
75°	1358.0	194.6	80.5	60.4	69.4	78.3	55.9	64.9	67.1	71.6	69.4
77.5°	378.1	94.0	51.5	44.7	60.4	60.4	42.5	51.5	60.4	76.1	69.4
80°	109.6	60.4	33.6	33.6	42.5	42.5	29.1	35.8	40.3	44.7	47.0
82.5°	76.1	40.3	22.4	24.6	24.6	26.8	17.9	17.9	22.4	22.4	24.6
85°	60.4	17.9	13.4	15.7	11.2	13.4	8.9	8.9	11.2	8.9	8.9
87.5°	24.6	8.9	8.9	8.9	6.7	6.7	4.5	2.2	2.2	2.2	2.2
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)