

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: P1210564

Luminaire Tested: **ARCH3-160-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210564
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: ARCH3-160-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1245mA 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: 16281 lumens
Efficiency: N/A
Efficacy: 101.1 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

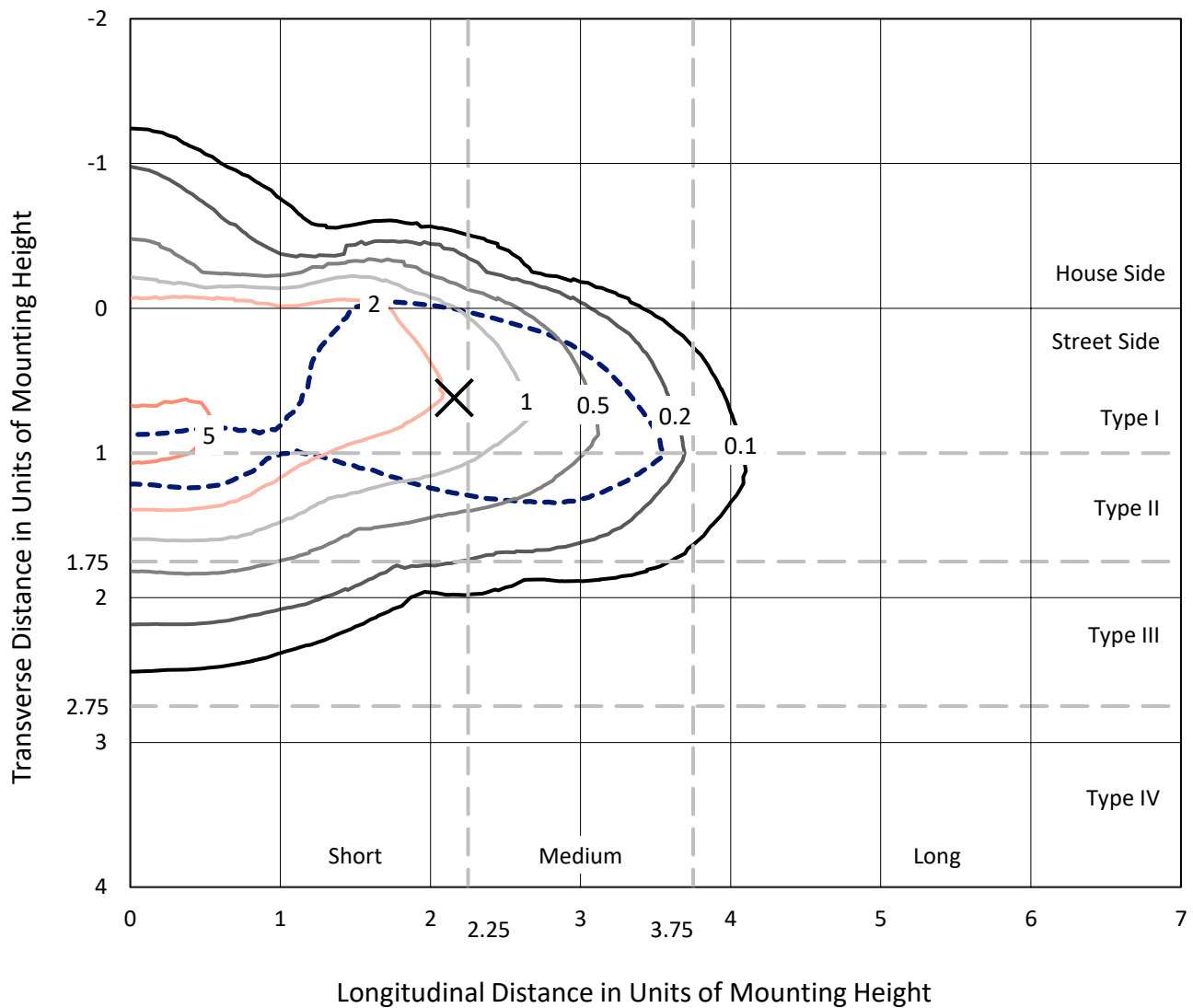
Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

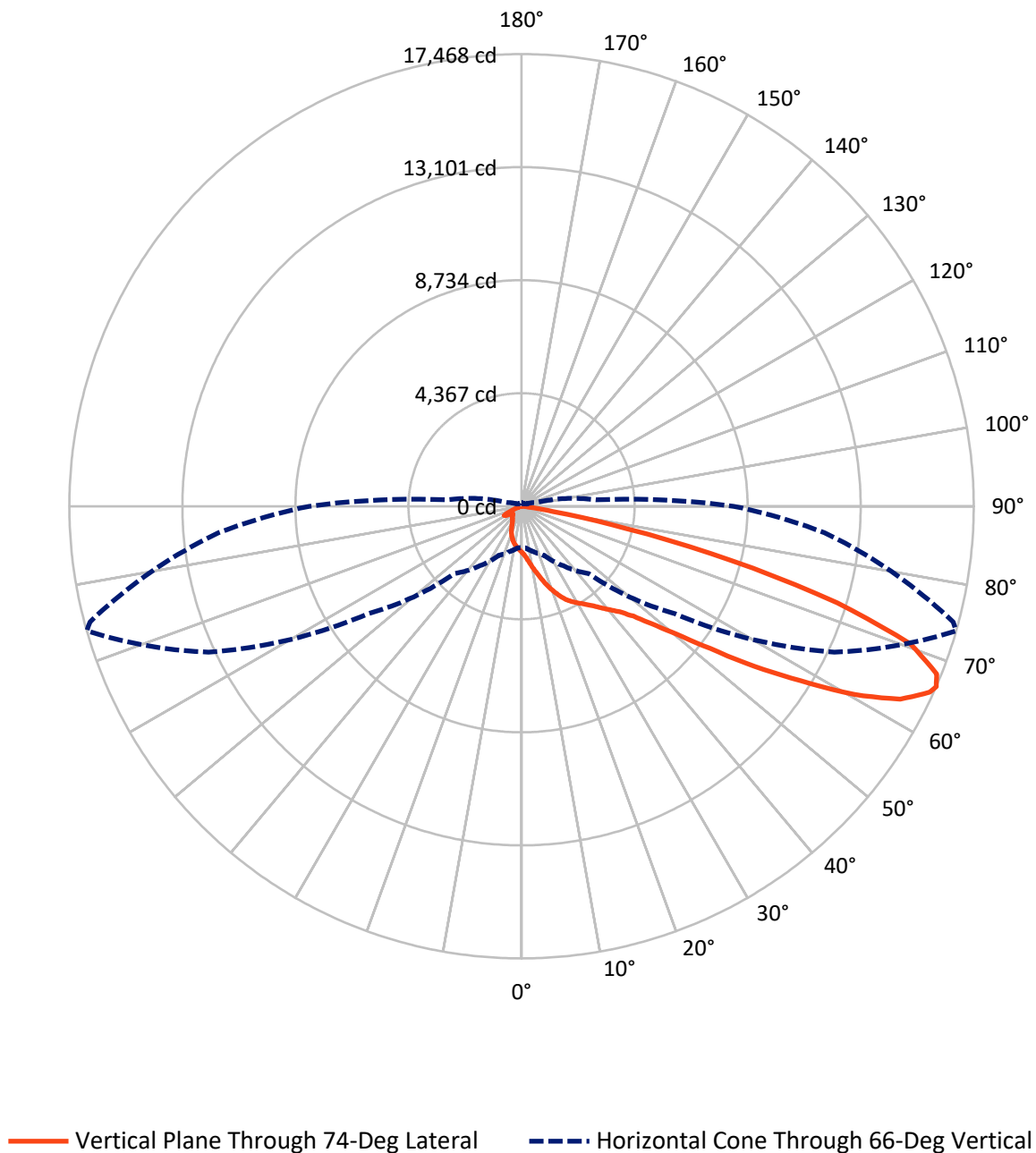
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1596.1	0.0	1596.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14684.9	0.0	14684.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	16281.0	0.0	16281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.1
10°-20°	556.1	3.4
20°-30°	1061.3	6.5
30°-40°	1860.2	11.4
40°-50°	3189.7	19.6
50°-60°	4148.5	25.5
60°-70°	3755.4	23.1
70°-80°	1449.0	8.9
80°-90°	87.2	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°	16281.0	100.0
0°-180°	16281.0	100.0

Coefficient of Utilization



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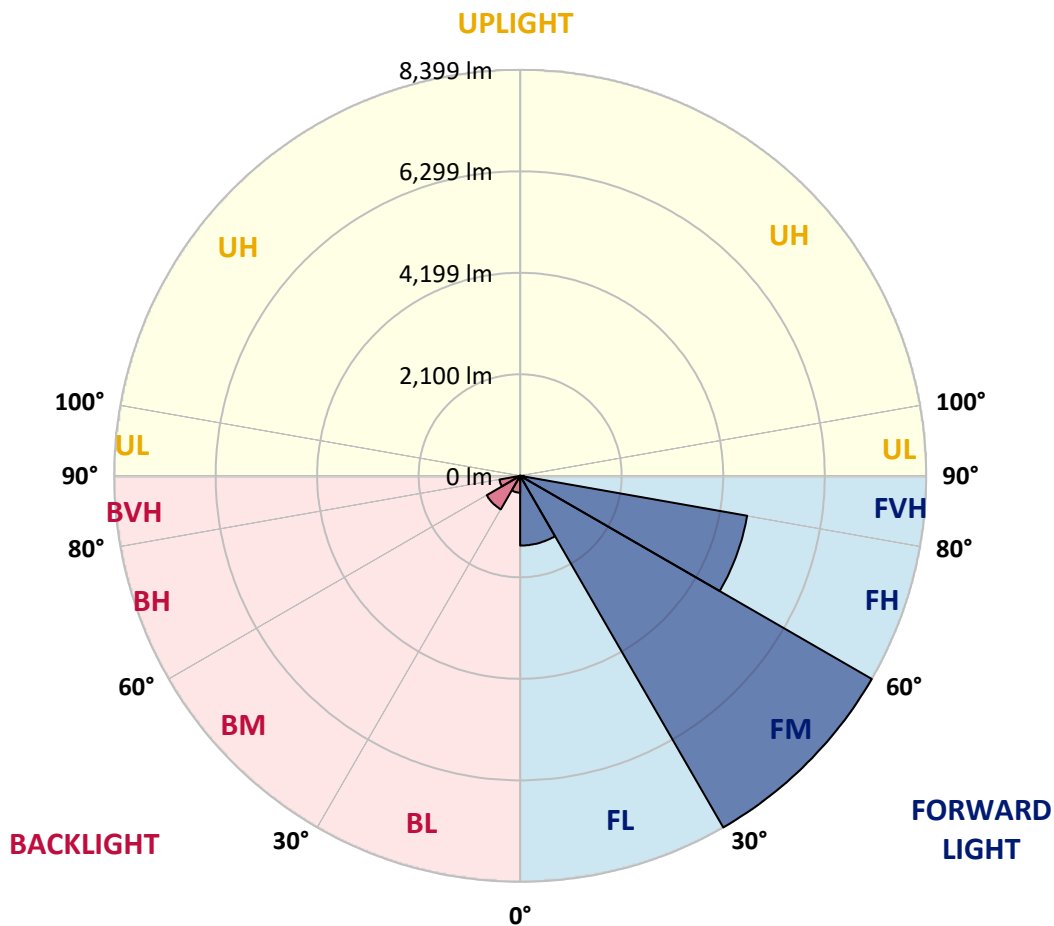
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1442.7	8.9			
FM	(30°-60°)	8398.6	51.6			
FH	(60°-80°)	4768.1	29.3			G2/5000
FVH	(80°-90°)	75.5	0.5			G1/100
BL	(0°-30°)	348.1	2.1	B1/500		
BM	(30°-60°)	799.9	4.9	B1/1000		
BH	(60°-80°)	436.3	2.7	B1/500		G1/500
BVH	(80°-90°)	11.7	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	2133.8	2116.3	2084.1	2081.2	2054.9	2022.7	1967.2	1908.7	1867.8	1862.0	1812.3
5°	2554.7	2546.0	2513.8	2493.4	2443.7	2367.7	2239.1	2110.4	2002.3	1990.6	1879.5
7.5°	2665.8	2671.7	2677.5	2698.0	2680.4	2645.4	2548.9	2367.7	2198.1	2171.8	1978.9
10°	2683.4	2677.5	2677.5	2703.8	2753.5	2803.2	2791.5	2636.6	2417.4	2385.2	2116.3
12.5°	2873.4	2882.1	2861.7	2850.0	2841.2	2867.5	2955.2	2888.0	2648.3	2622.0	2282.9
15°	3118.9	3116.0	3086.7	3086.7	3060.4	3016.6	3072.1	3121.8	2926.0	2893.8	2472.9
17.5°	3297.2	3308.9	3306.0	3323.5	3314.7	3256.3	3227.0	3329.3	3212.4	3171.5	2689.2
20°	3440.4	3472.6	3484.3	3539.8	3566.1	3525.2	3449.2	3513.5	3487.2	3449.2	2908.4
22.5°	3592.4	3618.7	3639.2	3735.7	3808.7	3800.0	3703.5	3688.9	3753.2	3718.1	3124.7
25°	3744.4	3756.1	3817.5	3934.4	4051.3	4080.6	3981.2	3867.2	3992.9	3960.7	3317.7
27.5°	3911.0	3916.9	3990.0	4133.2	4296.9	4358.3	4279.3	4068.9	4177.0	4177.0	3493.0
30°	4215.0	4273.5	4302.7	4431.3	4574.6	4659.3	4565.8	4282.3	4340.7	4367.0	3677.2
32.5°	4869.8	4878.6	4869.8	4925.3	4954.6	5004.3	4896.1	4522.0	4507.3	4536.6	3858.4
35°	5869.5	5834.4	5740.9	5659.0	5489.5	5395.9	5255.6	4828.9	4711.9	4752.9	4036.7
37.5°	7082.5	7032.8	6819.5	6568.1	6205.6	5831.5	5656.1	5203.0	4972.1	5024.7	4229.6
40°	8240.1	8207.9	7953.6	7643.8	7024.1	6383.9	6012.7	5518.7	5261.5	5281.9	4425.5
42.5°	9193.0	9187.1	8973.8	8649.3	7854.2	6980.2	6433.6	5828.6	5565.5	5597.6	4630.1
45°	9915.0	9859.4	9701.6	9467.7	8658.1	7599.9	6942.2	6299.2	6053.6	6091.6	4937.0
47.5°	9915.0	9923.7	10026.0	10002.7	9219.3	8181.6	7497.6	6892.5	6775.6	6810.7	5442.7
50°	9108.2	9190.1	9646.1	10029.0	9511.6	8634.7	8096.8	7635.0	7754.8	7807.5	6325.5
52.5°	7512.2	7649.6	8441.8	9315.7	9295.3	8862.7	8716.5	8579.1	9117.0	9210.5	7629.1
55°	5708.7	5799.3	6831.2	7979.9	8354.1	8675.6	9257.3	9777.6	10920.5	10900.0	8953.3
57.5°	4264.7	4349.5	5238.1	6512.5	7006.5	7865.9	9535.0	11148.5	12709.4	12788.3	10195.6
60°	3136.4	3200.7	3957.8	5004.3	5717.5	6626.5	9423.9	12498.9	14770.2	14679.5	11291.7
62.5°	2320.9	2356.0	2902.6	3583.7	4530.7	5398.9	8725.3	13422.6	16415.8	16231.7	11902.6
65°	1794.8	1806.4	2090.0	2452.4	3294.3	4197.5	7684.7	13562.9	17324.9	17129.0	11891.0
66°	1598.9	1607.7	1815.2	2095.8	2803.2	3674.3	7228.7	13337.9	17468.1	17260.6	11744.8
67.5°	1341.7	1335.8	1458.6	1642.8	2104.6	2835.4	6419.0	12680.2	17298.6	17193.4	11277.1
70°	993.8	996.8	1058.1	1102.0	1230.6	1569.7	4636.0	10999.4	15942.3	15936.4	9993.9
72.5°	736.6	745.4	792.1	800.9	768.8	850.6	2671.7	8748.7	12753.2	12756.2	7471.3
75°	552.5	567.1	581.7	587.5	558.3	537.8	1207.2	5887.0	8389.1	8327.8	4229.6
77.5°	420.9	426.8	438.5	429.7	423.8	371.2	502.8	2870.4	4142.0	3773.7	1370.9
80°	306.9	306.9	318.6	306.9	304.0	266.0	274.8	920.8	1216.0	1011.4	295.2
82.5°	192.9	190.0	198.8	195.8	190.0	169.5	160.8	257.2	280.6	251.4	143.2
85°	108.2	105.2	102.3	99.4	90.6	76.0	87.7	96.5	128.6	131.5	102.3
87.5°	38.0	38.0	35.1	32.2	26.3	26.3	32.2	32.2	46.8	46.8	52.6
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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1788.9	1756.8	1710.0	1648.6	1604.8	1560.9	1514.1	1487.8	1449.8	1441.1	1452.8
5°	1821.1	1762.6	1645.7	1517.1	1406.0	1306.6	1213.1	1157.5	1102.0	1081.5	1090.3
7.5°	1888.3	1788.9	1590.1	1382.6	1198.4	1049.4	938.3	874.0	824.3	803.8	809.7
10°	1987.7	1835.7	1537.5	1230.6	993.8	836.0	742.5	701.5	672.3	660.6	663.5
12.5°	2107.5	1902.9	1470.3	1078.6	818.5	681.1	637.2	628.5	622.6	616.8	619.7
15°	2242.0	1961.4	1391.4	929.5	681.1	605.1	590.5	587.5	584.6	584.6	584.6
17.5°	2382.3	2014.0	1303.7	789.2	593.4	558.3	549.5	549.5	549.5	552.5	552.5
20°	2513.8	2054.9	1201.4	663.5	543.7	514.5	508.6	508.6	511.5	514.5	514.5
22.5°	2642.4	2072.4	1081.5	575.8	502.8	476.5	467.7	467.7	467.7	470.6	470.6
25°	2753.5	2072.4	961.7	520.3	467.7	441.4	429.7	426.8	429.7	429.7	429.7
27.5°	2847.0	2063.7	844.8	482.3	432.6	406.3	394.6	391.7	397.5	400.5	400.5
30°	2946.4	2052.0	751.2	447.2	403.4	377.1	365.4	365.4	374.1	385.8	385.8
32.5°	3042.9	2060.7	678.1	418.0	374.1	353.7	342.0	344.9	362.5	380.0	380.0
35°	3145.2	2078.3	634.3	397.5	353.7	333.2	324.5	333.2	350.8	368.3	368.3
37.5°	3247.5	2098.7	608.0	380.0	336.2	315.7	309.8	321.5	342.0	359.5	362.5
40°	3355.7	2116.3	578.8	362.5	324.5	301.1	298.2	309.8	336.2	353.7	356.6
42.5°	3490.1	2151.4	543.7	347.8	312.8	283.5	286.5	295.2	321.5	347.8	350.8
45°	3753.2	2262.4	508.6	333.2	298.2	274.8	268.9	274.8	304.0	333.2	339.1
47.5°	4247.2	2513.8	470.6	318.6	283.5	268.9	245.5	251.4	277.7	309.8	312.8
50°	5194.3	3048.7	450.1	304.0	271.8	248.5	222.2	222.2	242.6	271.8	271.8
52.5°	6670.4	4007.5	461.8	292.3	257.2	228.0	201.7	198.8	210.5	230.9	230.9
55°	8263.5	5059.8	505.7	280.6	239.7	216.3	187.1	172.5	181.2	192.9	192.9
57.5°	9526.2	5588.9	625.5	274.8	219.2	207.5	169.5	149.1	157.8	169.5	169.5
60°	10081.6	5279.0	760.0	280.6	204.6	192.9	152.0	131.5	146.2	157.8	160.8
62.5°	9631.4	4346.6	815.5	266.0	184.2	172.5	149.1	122.8	140.3	149.1	152.0
65°	8658.1	3303.0	637.2	230.9	169.5	149.1	134.5	116.9	131.5	140.3	140.3
66°	8196.2	2879.2	543.7	213.4	163.7	140.3	128.6	116.9	128.6	134.5	137.4
67.5°	7480.1	2271.2	403.4	187.1	152.0	128.6	119.8	111.1	122.8	128.6	128.6
70°	5849.0	1353.4	242.6	146.2	131.5	114.0	108.2	102.3	111.1	114.0	114.0
72.5°	3662.6	643.1	154.9	108.2	111.1	108.2	90.6	96.5	99.4	102.3	102.3
75°	1774.3	254.3	105.2	78.9	90.6	102.3	73.1	84.8	87.7	93.5	90.6
77.5°	494.0	122.8	67.2	58.5	78.9	78.9	55.5	67.2	78.9	99.4	90.6
80°	143.2	78.9	43.8	43.8	55.5	55.5	38.0	46.8	52.6	58.5	61.4
82.5°	99.4	52.6	29.2	32.2	32.2	35.1	23.4	23.4	29.2	29.2	32.2
85°	78.9	23.4	17.5	20.5	14.6	17.5	11.7	11.7	14.6	11.7	11.7
87.5°	32.2	11.7	11.7	11.7	8.8	8.8	5.8	2.9	2.9	2.9	2.9
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)