

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: P1210620

Luminaire Tested: **ARCH3-180-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210620
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: ARCH3-180-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1375mA 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: 16669 lumens
Efficiency: N/A
Efficacy: 92.3 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

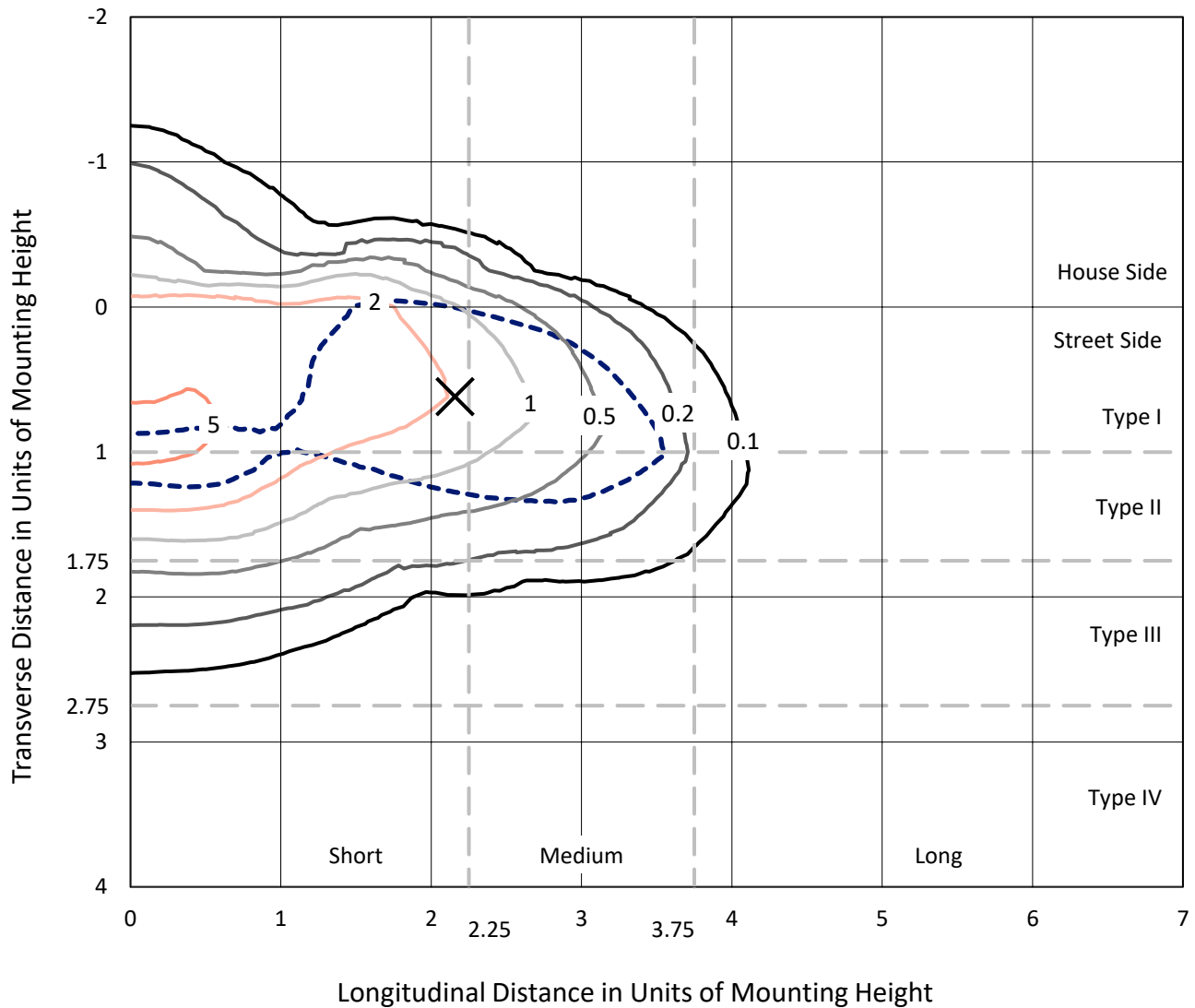
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210620
CATALOG NUMBER: ARCH3-180-730-U-T2RE-HSS

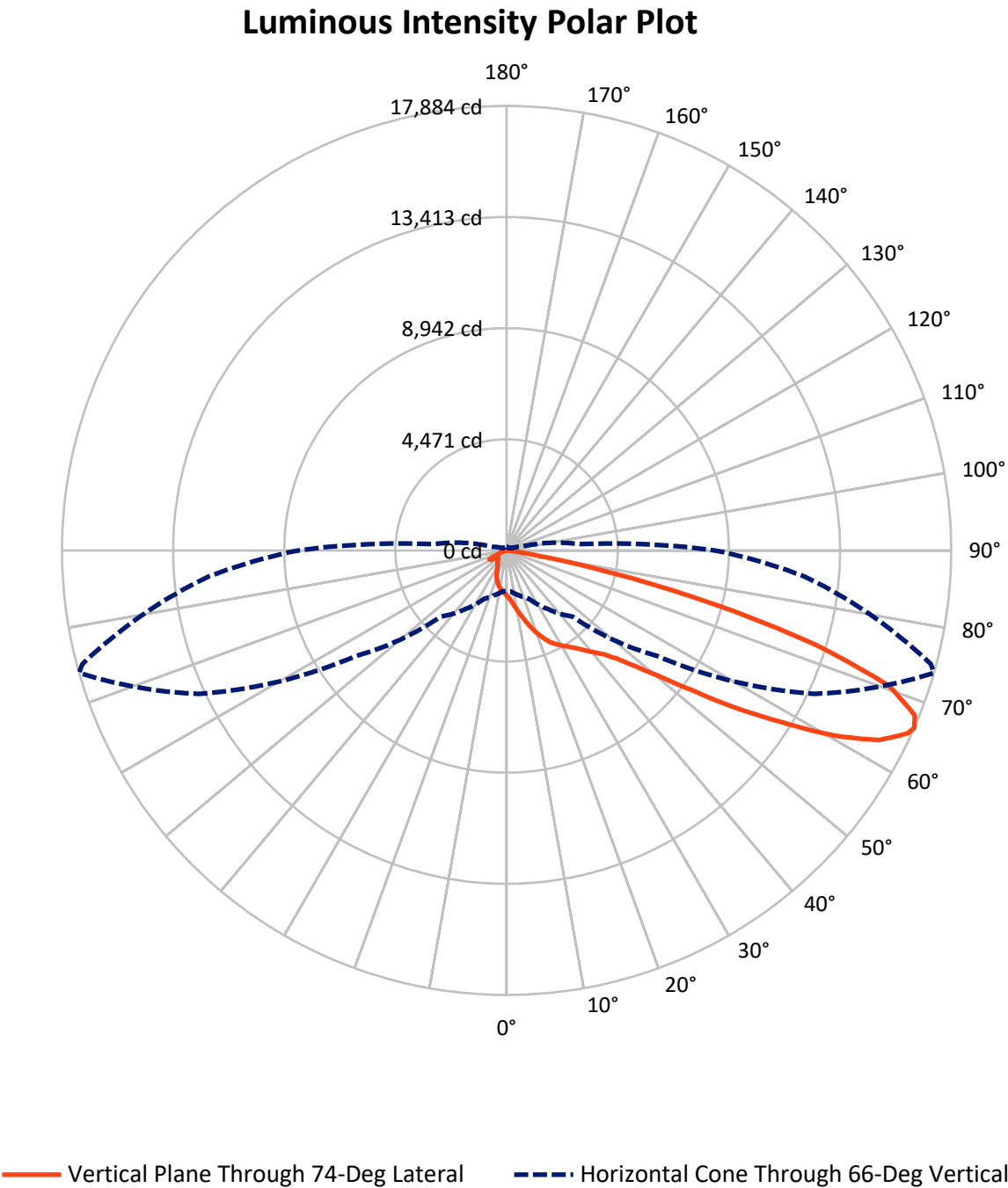
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - N/A

REPORT NUMBER: P1210620
CATALOG NUMBER: ARCH3-180-730-U-T2RE-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.1	0.0	1634.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	15034.9	0.0	15034.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	16669.0	0.0	16669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.1
10°-20°	569.4	3.4
20°-30°	1086.6	6.5
30°-40°	1904.5	11.4
40°-50°	3265.8	19.6
50°-60°	4247.4	25.5
60°-70°	3844.9	23.1
70°-80°	1483.6	8.9
80°-90°	89.3	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°	16669.0	100.0
0°-180°	16669.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210620

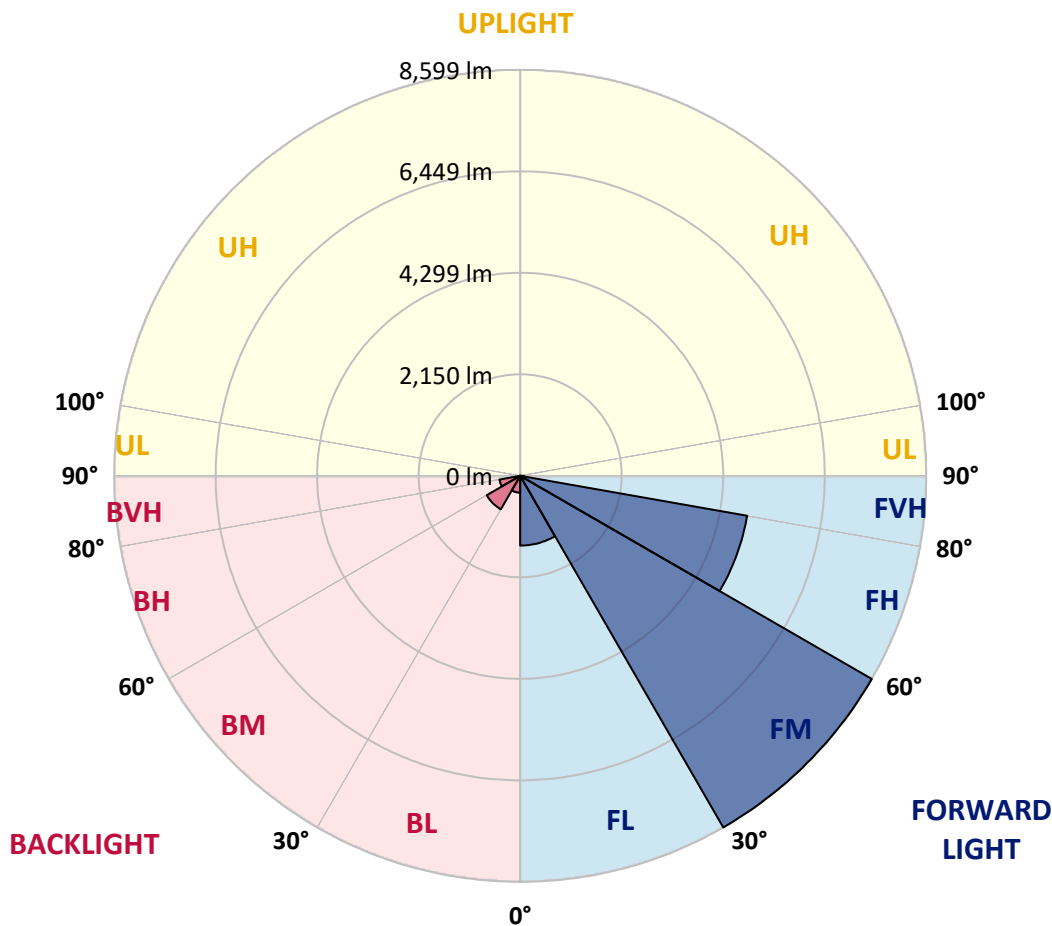
CATALOG NUMBER: ARCH3-180-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1477.1	8.9			
FM	(30°-60°)	8598.7	51.6			
FH	(60°-80°)	4881.8	29.3			G2/5000
FVH	(80°-90°)	77.3	0.5			G1/100
BL	(0°-30°)	356.4	2.1	B1/500		
BM	(30°-60°)	819.0	4.9	B1/1000		
BH	(60°-80°)	446.7	2.7	B1/500		G1/500
BVH	(80°-90°)	12.0	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



REPORT NUMBER: P1210620

CATALOG NUMBER: ARCH3-180-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6
2.5°	2184.7	2166.7	2133.8	2130.8	2103.9	2071.0	2014.1	1954.2	1912.3	1906.4	1855.5
5°	2615.6	2606.6	2573.7	2552.8	2501.9	2424.1	2292.4	2160.7	2050.0	2038.0	1924.3
7.5°	2729.3	2735.3	2741.3	2762.3	2744.3	2708.4	2609.6	2424.1	2250.5	2223.6	2026.1
10°	2747.3	2741.3	2741.3	2768.3	2819.1	2870.0	2858.0	2699.4	2475.0	2442.0	2166.7
12.5°	2941.8	2950.8	2929.9	2917.9	2908.9	2935.8	3025.6	2956.8	2711.4	2684.5	2337.3
15°	3193.2	3190.2	3160.3	3160.3	3133.4	3088.5	3145.3	3196.2	2995.7	2962.8	2531.8
17.5°	3375.8	3387.7	3384.8	3402.7	3393.7	3333.9	3303.9	3408.7	3289.0	3247.1	2753.3
20°	3522.4	3555.3	3567.3	3624.2	3651.1	3609.2	3531.4	3597.2	3570.3	3531.4	2977.7
22.5°	3678.0	3705.0	3725.9	3824.7	3899.5	3890.5	3791.8	3776.8	3842.6	3806.7	3199.2
25°	3833.7	3845.6	3908.5	4028.2	4147.9	4177.8	4076.1	3959.4	4088.0	4055.1	3396.7
27.5°	4004.2	4010.2	4085.0	4231.7	4399.3	4462.1	4381.3	4165.8	4276.6	4276.6	3576.3
30°	4315.5	4375.3	4405.3	4536.9	4683.6	4770.4	4674.6	4384.3	4444.2	4471.1	3764.8
32.5°	4985.8	4994.8	4985.8	5042.7	5072.6	5123.5	5012.8	4629.7	4614.8	4644.7	3950.4
35°	6009.4	5973.4	5877.7	5793.9	5620.3	5524.5	5380.9	4944.0	4824.2	4866.1	4132.9
37.5°	7251.3	7200.5	6982.0	6724.6	6353.5	5970.4	5790.9	5327.0	5090.6	5144.5	4330.4
40°	8436.4	8403.5	8143.2	7825.9	7191.5	6536.1	6156.0	5650.2	5386.9	5407.8	4531.0
42.5°	9412.1	9406.1	9187.6	8855.4	8041.4	7146.6	6586.9	5967.5	5698.1	5731.0	4740.4
45°	10151.3	10094.4	9932.8	9693.4	8864.4	7781.0	7107.7	6449.3	6197.9	6236.8	5054.7
47.5°	10151.3	10160.2	10265.0	10241.0	9439.0	8376.6	7676.3	7056.8	6937.1	6973.0	5572.4
50°	9325.3	9409.1	9875.9	10268.0	9738.3	8840.5	8289.8	7816.9	7939.6	7993.5	6476.2
52.5°	7691.3	7831.9	8642.9	9537.8	9516.8	9073.9	8924.3	8783.6	9334.3	9430.0	7811.0
55°	5844.8	5937.5	6994.0	8170.1	8553.2	8882.4	9477.9	10010.6	11180.8	11159.8	9166.7
57.5°	4366.4	4453.1	5362.9	6667.7	7173.5	8053.4	9762.2	11414.2	13012.3	13093.1	10438.6
60°	3211.2	3277.0	4052.1	5123.5	5853.7	6784.5	9648.5	12796.8	15122.1	15029.4	11560.8
62.5°	2376.2	2412.1	2971.8	3669.1	4638.7	5527.5	8933.2	13742.5	16807.0	16618.5	12186.3
65°	1837.5	1849.5	2139.8	2510.9	3372.8	4297.5	7867.8	13886.2	17737.8	17537.3	12174.3
66°	1637.0	1646.0	1858.5	2145.8	2870.0	3761.8	7401.0	13655.7	17884.4	17671.9	12024.7
67.5°	1373.7	1367.7	1493.4	1681.9	2154.7	2902.9	6572.0	12982.4	17710.8	17603.1	11545.9
70°	1017.5	1020.5	1083.4	1128.3	1259.9	1607.1	4746.4	11261.6	16322.2	16316.2	10232.1
72.5°	754.2	763.1	811.0	820.0	787.1	870.9	2735.3	8957.2	13057.2	13060.2	7649.4
75°	565.6	580.6	595.5	601.5	571.6	550.7	1236.0	6027.3	8589.1	8526.2	4330.4
77.5°	430.9	436.9	448.9	439.9	433.9	380.1	514.7	2938.8	4240.7	3863.6	1403.6
80°	314.2	314.2	326.2	314.2	311.2	272.3	281.3	942.7	1245.0	1035.5	302.3
82.5°	197.5	194.5	203.5	200.5	194.5	173.6	164.6	263.4	287.3	257.4	146.6
85°	110.7	107.7	104.7	101.8	92.8	77.8	89.8	98.8	131.7	134.7	104.7
87.5°	38.9	38.9	35.9	32.9	26.9	26.9	32.9	32.9	47.9	47.9	53.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210620

CATALOG NUMBER: ARCH3-180-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6	1819.6
2.5°	1831.5	1798.6	1750.7	1687.9	1643.0	1598.1	1550.2	1523.3	1484.4	1475.4	1487.4
5°	1864.5	1804.6	1684.9	1553.2	1439.5	1337.7	1242.0	1185.1	1128.3	1107.3	1116.3
7.5°	1933.3	1831.5	1628.0	1415.6	1227.0	1074.4	960.7	894.8	843.9	823.0	829.0
10°	2035.0	1879.4	1574.2	1259.9	1017.5	855.9	760.1	718.2	688.3	676.4	679.3
12.5°	2157.7	1948.3	1505.3	1104.3	838.0	697.3	652.4	643.4	637.4	631.5	634.5
15°	2295.4	2008.1	1424.5	951.7	697.3	619.5	604.5	601.5	598.5	598.5	598.5
17.5°	2439.1	2062.0	1334.7	808.0	607.5	571.6	562.6	562.6	562.6	565.6	565.6
20°	2573.7	2103.9	1230.0	679.3	556.6	526.7	520.7	520.7	523.7	526.7	526.7
22.5°	2705.4	2121.8	1107.3	589.6	514.7	487.8	478.8	478.8	478.8	481.8	481.8
25°	2819.1	2121.8	984.6	532.7	478.8	451.9	439.9	436.9	439.9	439.9	439.9
27.5°	2914.9	2112.9	864.9	493.8	442.9	416.0	404.0	401.0	407.0	410.0	410.0
30°	3016.6	2100.9	769.1	457.9	413.0	386.1	374.1	374.1	383.1	395.0	395.0
32.5°	3115.4	2109.9	694.3	428.0	383.1	362.1	350.1	353.1	371.1	389.1	389.1
35°	3220.2	2127.8	649.4	407.0	362.1	341.2	332.2	341.2	359.1	377.1	377.1
37.5°	3324.9	2148.8	622.5	389.1	344.2	323.2	317.2	329.2	350.1	368.1	371.1
40°	3435.6	2166.7	592.6	371.1	332.2	308.2	305.3	317.2	344.2	362.1	365.1
42.5°	3573.3	2202.6	556.6	356.1	320.2	290.3	293.3	302.3	329.2	356.1	359.1
45°	3842.6	2316.4	520.7	341.2	305.3	281.3	275.3	281.3	311.2	341.2	347.2
47.5°	4348.4	2573.7	481.8	326.2	290.3	275.3	251.4	257.4	284.3	317.2	320.2
50°	5318.0	3121.4	460.9	311.2	278.3	254.4	227.4	227.4	248.4	278.3	278.3
52.5°	6829.4	4103.0	472.8	299.3	263.4	233.4	206.5	203.5	215.5	236.4	236.4
55°	8460.4	5180.4	517.7	287.3	245.4	221.5	191.5	176.6	185.5	197.5	197.5
57.5°	9753.2	5722.1	640.4	281.3	224.5	212.5	173.6	152.6	161.6	173.6	173.6
60°	10321.8	5404.8	778.1	287.3	209.5	197.5	155.6	134.7	149.6	161.6	164.6
62.5°	9861.0	4450.2	835.0	272.3	188.5	176.6	152.6	125.7	143.6	152.6	155.6
65°	8864.4	3381.8	652.4	236.4	173.6	152.6	137.7	119.7	134.7	143.6	143.6
66°	8391.5	2947.8	556.6	218.5	167.6	143.6	131.7	119.7	131.7	137.7	140.7
67.5°	7658.3	2325.3	413.0	191.5	155.6	131.7	122.7	113.7	125.7	131.7	131.7
70°	5988.4	1385.6	248.4	149.6	134.7	116.7	110.7	104.7	113.7	116.7	116.7
72.5°	3749.9	658.4	158.6	110.7	113.7	110.7	92.8	98.8	101.8	104.7	104.7
75°	1816.6	260.4	107.7	80.8	92.8	104.7	74.8	86.8	89.8	95.8	92.8
77.5°	505.8	125.7	68.8	59.9	80.8	80.8	56.9	68.8	80.8	101.8	92.8
80°	146.6	80.8	44.9	44.9	56.9	56.9	38.9	47.9	53.9	59.9	62.8
82.5°	101.8	53.9	29.9	32.9	32.9	35.9	23.9	23.9	29.9	29.9	32.9
85°	80.8	23.9	18.0	20.9	15.0	18.0	12.0	12.0	15.0	12.0	12.0
87.5°	32.9	12.0	12.0	12.0	9.0	9.0	6.0	3.0	3.0	3.0	3.0
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)