

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: P1210504

Luminaire Tested: **ARCH3-140-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210504
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: ARCH3-140-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 14954 lumens
Efficiency: N/A
Efficacy: 104.9 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

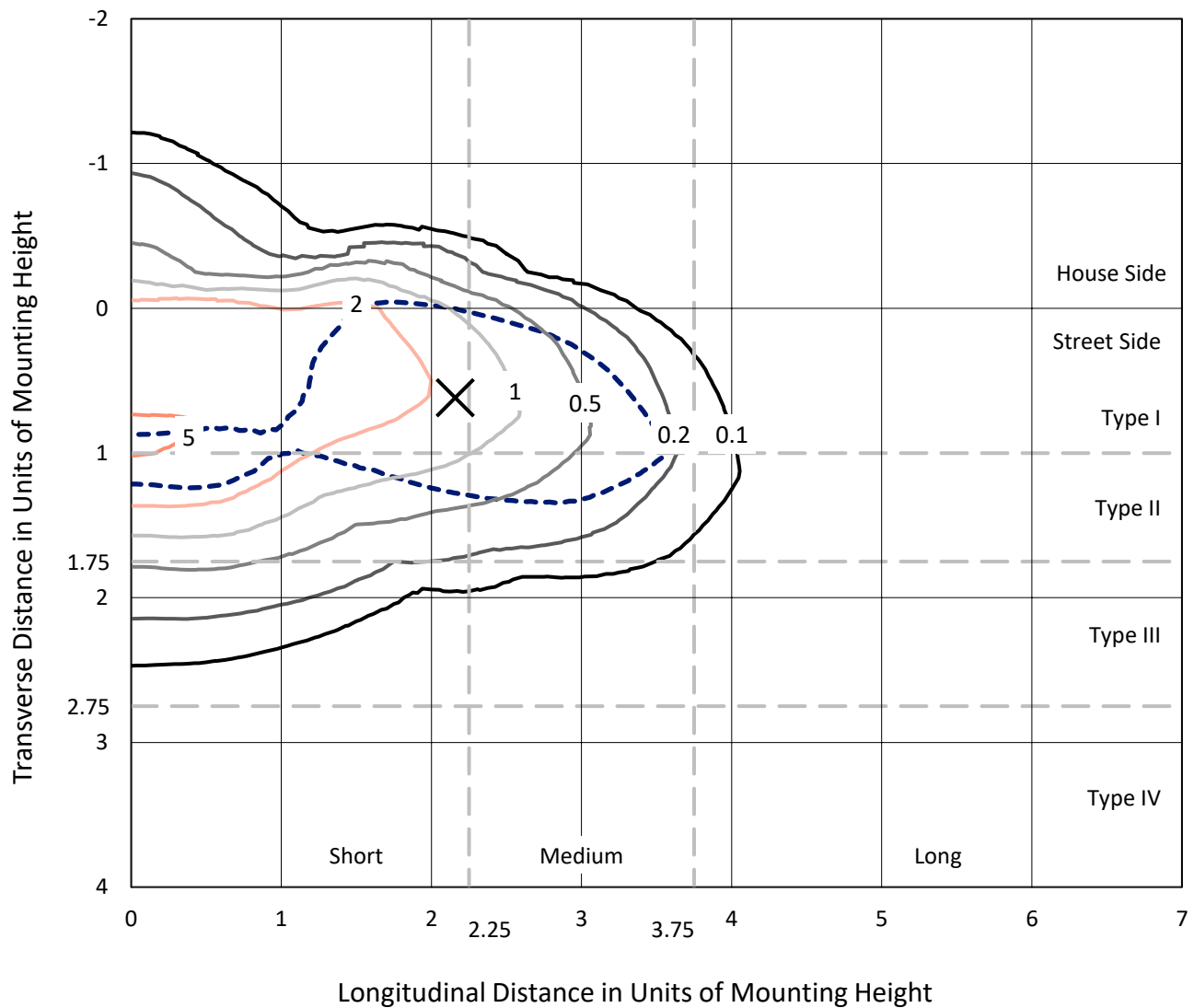


REPORT NUMBER: P1210504

CATALOG NUMBER: ARCH3-140-750-U-T2RE-HSS

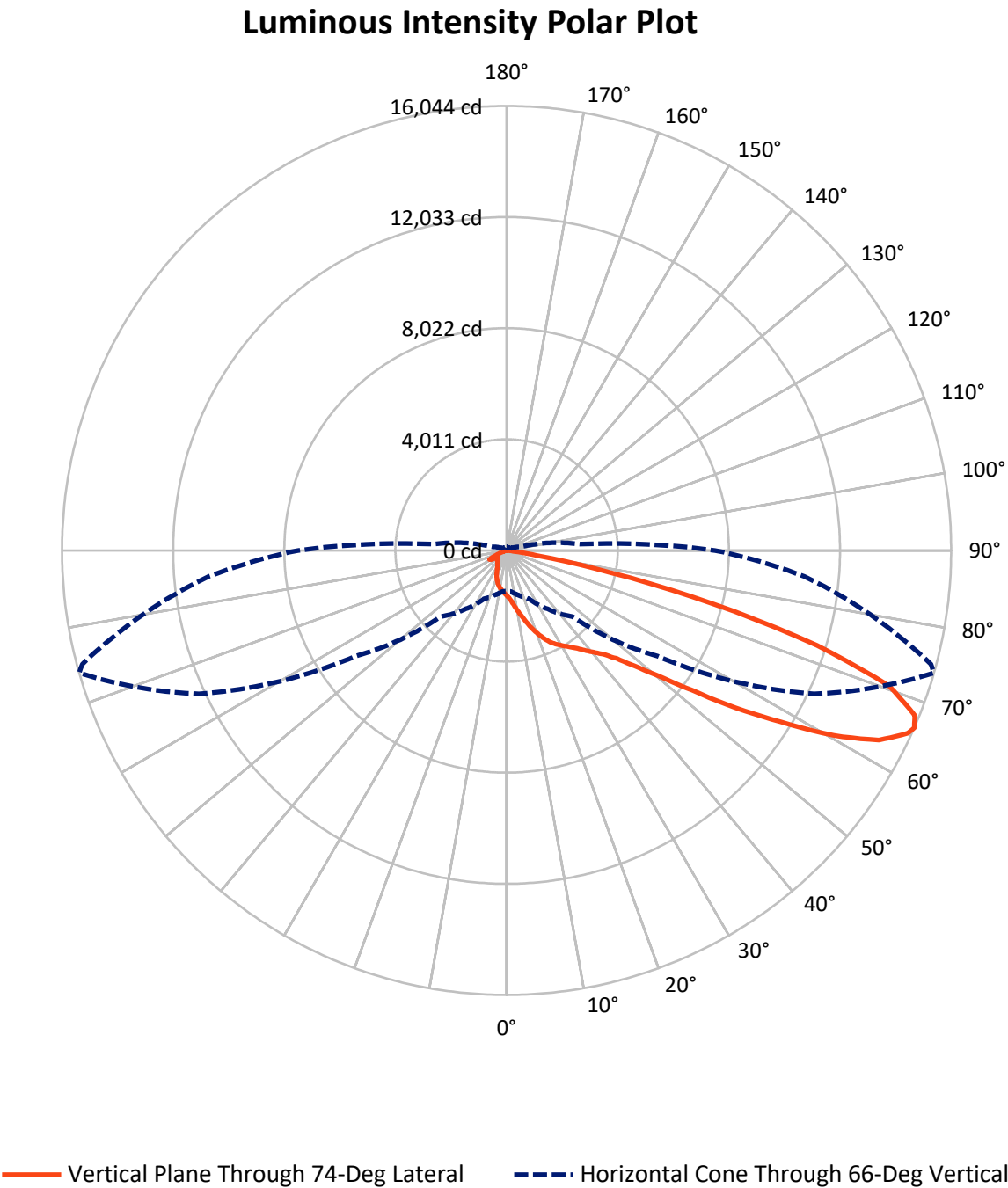
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210504
CATALOG NUMBER: ARCH3-140-750-U-T2RE-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.0	0.0	1466.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13488.0	0.0	13488.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	14954.0	0.0	14954.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.1
10°-20°	510.8	3.4
20°-30°	974.8	6.5
30°-40°	1708.6	11.4
40°-50°	2929.8	19.6
50°-60°	3810.4	25.5
60°-70°	3449.3	23.1
70°-80°	1330.9	8.9
80°-90°	80.1	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°	14954.0	100.0
0°-180°	14954.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210504

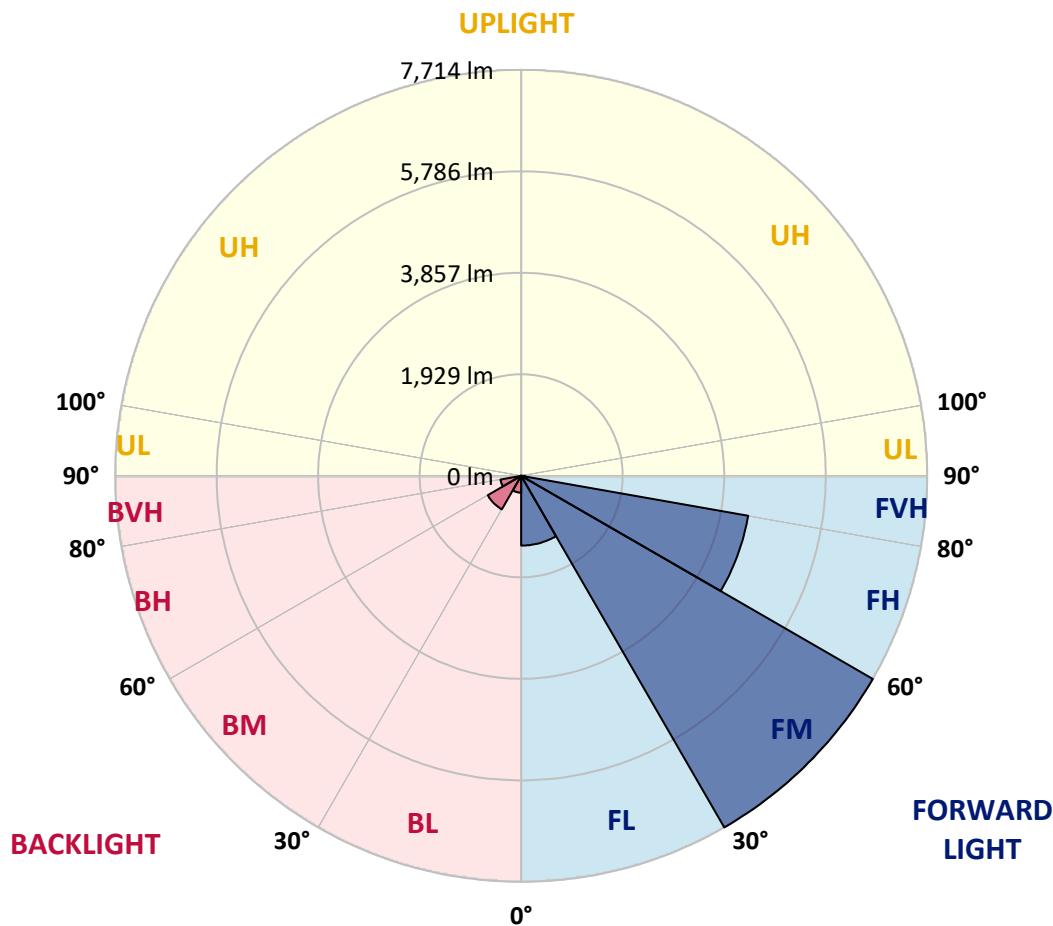
CATALOG NUMBER: ARCH3-140-750-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1325.1	8.9			
FM	(30°-60°)	7714.0	51.6			
FH	(60°-80°)	4379.5	29.3			G2/5000
FVH	(80°-90°)	69.4	0.5			G1/100
BL	(0°-30°)	319.8	2.1	B1/500		
BM	(30°-60°)	734.7	4.9	B1/1000		
BH	(60°-80°)	400.8	2.7	B1/500		G1/500
BVH	(80°-90°)	10.7	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



REPORT NUMBER: P1210504

CATALOG NUMBER: ARCH3-140-750-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4
2.5°	1959.9	1943.8	1914.3	1911.6	1887.4	1857.9	1806.9	1753.2	1715.6	1710.2	1664.6
5°	2346.5	2338.5	2308.9	2290.1	2244.5	2174.7	2056.6	1938.4	1839.1	1828.3	1726.3
7.5°	2448.5	2453.9	2459.3	2478.1	2462.0	2429.7	2341.1	2174.7	2019.0	1994.8	1817.6
10°	2464.6	2459.3	2459.3	2483.4	2529.1	2574.7	2564.0	2421.7	2220.3	2190.8	1943.8
12.5°	2639.2	2647.2	2628.4	2617.7	2609.6	2633.8	2714.3	2652.6	2432.4	2408.3	2096.8
15°	2864.7	2862.0	2835.1	2835.1	2811.0	2770.7	2821.7	2867.4	2687.5	2658.0	2271.3
17.5°	3028.5	3039.2	3036.5	3052.6	3044.6	2990.9	2964.0	3058.0	2950.6	2913.0	2470.0
20°	3160.0	3189.5	3200.3	3251.3	3275.5	3237.9	3168.1	3227.1	3203.0	3168.1	2671.4
22.5°	3299.6	3323.8	3342.6	3431.2	3498.3	3490.2	3401.6	3388.2	3447.3	3415.1	2870.1
25°	3439.2	3450.0	3506.3	3613.7	3721.1	3748.0	3656.7	3552.0	3667.4	3637.9	3047.2
27.5°	3592.3	3597.6	3664.8	3796.3	3946.7	4003.0	3930.5	3737.2	3836.6	3836.6	3208.3
30°	3871.5	3925.2	3952.0	4070.2	4201.7	4279.6	4193.7	3933.2	3986.9	4011.1	3377.5
32.5°	4472.9	4480.9	4472.9	4523.9	4550.7	4596.4	4497.0	4153.4	4140.0	4166.8	3543.9
35°	5391.1	5358.9	5272.9	5197.8	5042.1	4956.1	4827.3	4435.3	4327.9	4365.5	3707.7
37.5°	6505.3	6459.6	6263.6	6032.7	5699.8	5356.2	5195.1	4778.9	4566.8	4615.2	3884.9
40°	7568.5	7538.9	7305.3	7020.8	6451.6	5863.6	5522.6	5068.9	4832.6	4851.4	4064.8
42.5°	8443.7	8438.3	8242.3	7944.3	7214.1	6411.3	5909.2	5353.5	5111.9	5141.4	4252.7
45°	9106.8	9055.8	8910.9	8696.1	7952.4	6980.5	6376.4	5785.7	5560.2	5595.1	4534.6
47.5°	9106.8	9114.9	9208.9	9187.4	8467.9	7514.8	6886.5	6330.8	6223.4	6255.6	4999.1
50°	8365.8	8441.0	8859.8	9211.5	8736.3	7930.9	7436.9	7012.7	7122.8	7171.1	5809.9
52.5°	6899.9	7026.1	7753.7	8556.5	8537.7	8140.3	8006.1	7879.9	8373.9	8459.8	7007.3
55°	5243.4	5326.6	6274.4	7329.5	7673.2	7968.5	8502.8	8980.7	10030.4	10011.6	8223.5
57.5°	3917.1	3995.0	4811.2	5981.7	6435.5	7224.8	8757.8	10239.8	11673.5	11746.0	9364.6
60°	2880.8	2939.9	3635.2	4596.4	5251.5	6086.4	8655.8	11480.2	13566.3	13483.1	10371.4
62.5°	2131.7	2163.9	2666.0	3291.6	4161.4	4958.8	8014.1	12328.6	15077.8	14908.7	10932.5
65°	1648.5	1659.2	1919.6	2252.5	3025.8	3855.4	7058.3	12457.5	15912.8	15732.9	10921.8
66°	1468.6	1476.6	1667.3	1925.0	2574.7	3374.8	6639.5	12250.7	16044.4	15853.7	10787.5
67.5°	1232.3	1227.0	1339.7	1508.9	1933.1	2604.3	5895.8	11646.7	15888.6	15792.0	10358.0
70°	912.8	915.5	971.9	1012.2	1130.3	1441.7	4258.1	10102.9	14642.9	14637.5	9179.3
72.5°	676.6	684.6	727.6	735.6	706.1	781.3	2453.9	8035.6	11713.8	11716.5	6862.3
75°	507.4	520.9	534.3	539.6	512.8	494.0	1108.8	5407.2	7705.4	7649.0	3884.9
77.5°	386.6	392.0	402.7	394.7	389.3	341.0	461.8	2636.5	3804.4	3466.1	1259.2
80°	281.9	281.9	292.6	281.9	279.2	244.3	252.4	845.7	1116.9	928.9	271.2
82.5°	177.2	174.5	182.6	179.9	174.5	155.7	147.7	236.3	257.7	230.9	131.6
85°	99.3	96.7	94.0	91.3	83.2	69.8	80.5	88.6	118.1	120.8	94.0
87.5°	34.9	34.9	32.2	29.5	24.2	24.2	29.5	29.5	43.0	43.0	48.3
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: P1210504

CATALOG NUMBER: ARCH3-140-750-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4
2.5°	1643.1	1613.6	1570.6	1514.2	1474.0	1433.7	1390.7	1366.6	1331.7	1323.6	1334.3
5°	1672.6	1618.9	1511.5	1393.4	1291.4	1200.1	1114.2	1063.2	1012.2	993.4	1001.4
7.5°	1734.4	1643.1	1460.5	1269.9	1100.8	963.8	861.8	802.8	757.1	738.3	743.7
10°	1825.7	1686.1	1412.2	1130.3	912.8	767.9	681.9	644.4	617.5	606.8	609.4
12.5°	1935.7	1747.8	1350.5	990.7	751.7	625.6	585.3	577.2	571.9	566.5	569.2
15°	2059.2	1801.5	1278.0	853.8	625.6	555.8	542.3	539.6	537.0	537.0	537.0
17.5°	2188.1	1849.8	1197.4	724.9	545.0	512.8	504.7	504.7	504.7	507.4	507.4
20°	2308.9	1887.4	1103.5	609.4	499.4	472.5	467.2	467.2	469.8	472.5	472.5
22.5°	2427.1	1903.5	993.4	528.9	461.8	437.6	429.6	429.6	429.6	432.3	432.3
25°	2529.1	1903.5	883.3	477.9	429.6	405.4	394.7	392.0	394.7	394.7	394.7
27.5°	2615.0	1895.5	775.9	443.0	397.4	373.2	362.4	359.8	365.1	367.8	367.8
30°	2706.3	1884.7	690.0	410.8	370.5	346.3	335.6	335.6	343.7	354.4	354.4
32.5°	2794.9	1892.8	622.9	383.9	343.7	324.9	314.1	316.8	332.9	349.0	349.0
35°	2888.8	1908.9	582.6	365.1	324.9	306.1	298.0	306.1	322.2	338.3	338.3
37.5°	2982.8	1927.7	558.4	349.0	308.8	290.0	284.6	295.3	314.1	330.2	332.9
40°	3082.2	1943.8	531.6	332.9	298.0	276.5	273.8	284.6	308.8	324.9	327.5
42.5°	3205.7	1976.0	499.4	319.5	287.3	260.4	263.1	271.2	295.3	319.5	322.2
45°	3447.3	2078.0	467.2	306.1	273.8	252.4	247.0	252.4	279.2	306.1	311.4
47.5°	3901.0	2308.9	432.3	292.6	260.4	247.0	225.5	230.9	255.1	284.6	287.3
50°	4770.9	2800.2	413.5	279.2	249.7	228.2	204.0	204.0	222.8	249.7	249.7
52.5°	6126.7	3680.9	424.2	268.5	236.3	209.4	185.3	182.6	193.3	212.1	212.1
55°	7589.9	4647.4	464.5	257.7	220.2	198.7	171.8	158.4	166.5	177.2	177.2
57.5°	8749.8	5133.3	574.5	252.4	201.4	190.6	155.7	136.9	145.0	155.7	155.7
60°	9259.9	4848.7	698.0	257.7	187.9	177.2	139.6	120.8	134.2	145.0	147.7
62.5°	8846.4	3992.3	749.1	244.3	169.1	158.4	136.9	112.8	128.9	136.9	139.6
65°	7952.4	3033.8	585.3	212.1	155.7	136.9	123.5	107.4	120.8	128.9	128.9
66°	7528.2	2644.5	499.4	196.0	150.3	128.9	118.1	107.4	118.1	123.5	126.2
67.5°	6870.4	2086.1	370.5	171.8	139.6	118.1	110.1	102.0	112.8	118.1	118.1
70°	5372.3	1243.1	222.8	134.2	120.8	104.7	99.3	94.0	102.0	104.7	104.7
72.5°	3364.1	590.7	142.3	99.3	102.0	99.3	83.2	88.6	91.3	94.0	94.0
75°	1629.7	233.6	96.7	72.5	83.2	94.0	67.1	77.9	80.5	85.9	83.2
77.5°	453.7	112.8	61.8	53.7	72.5	72.5	51.0	61.8	72.5	91.3	83.2
80°	131.6	72.5	40.3	40.3	51.0	51.0	34.9	43.0	48.3	53.7	56.4
82.5°	91.3	48.3	26.8	29.5	29.5	32.2	21.5	21.5	26.8	26.8	29.5
85°	72.5	21.5	16.1	18.8	13.4	16.1	10.7	10.7	13.4	10.7	10.7
87.5°	29.5	10.7	10.7	10.7	8.1	8.1	5.4	2.7	2.7	2.7	2.7
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)