

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: P836472

Luminaire Tested: **ARCH3-190-730-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16981 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.4
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



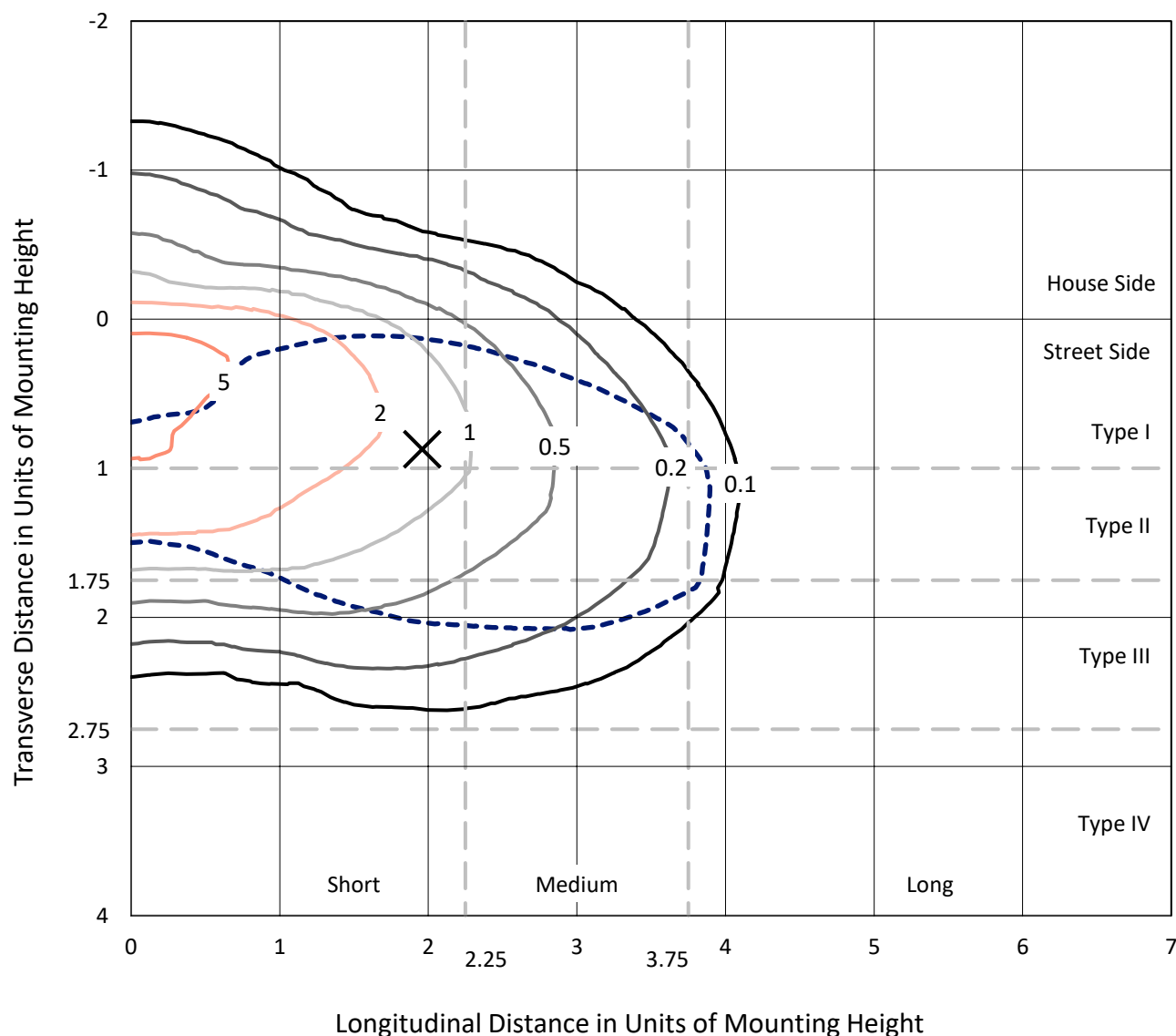
REPORT NUMBER: P836472

CATALOG NUMBER: ARCH3-190-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

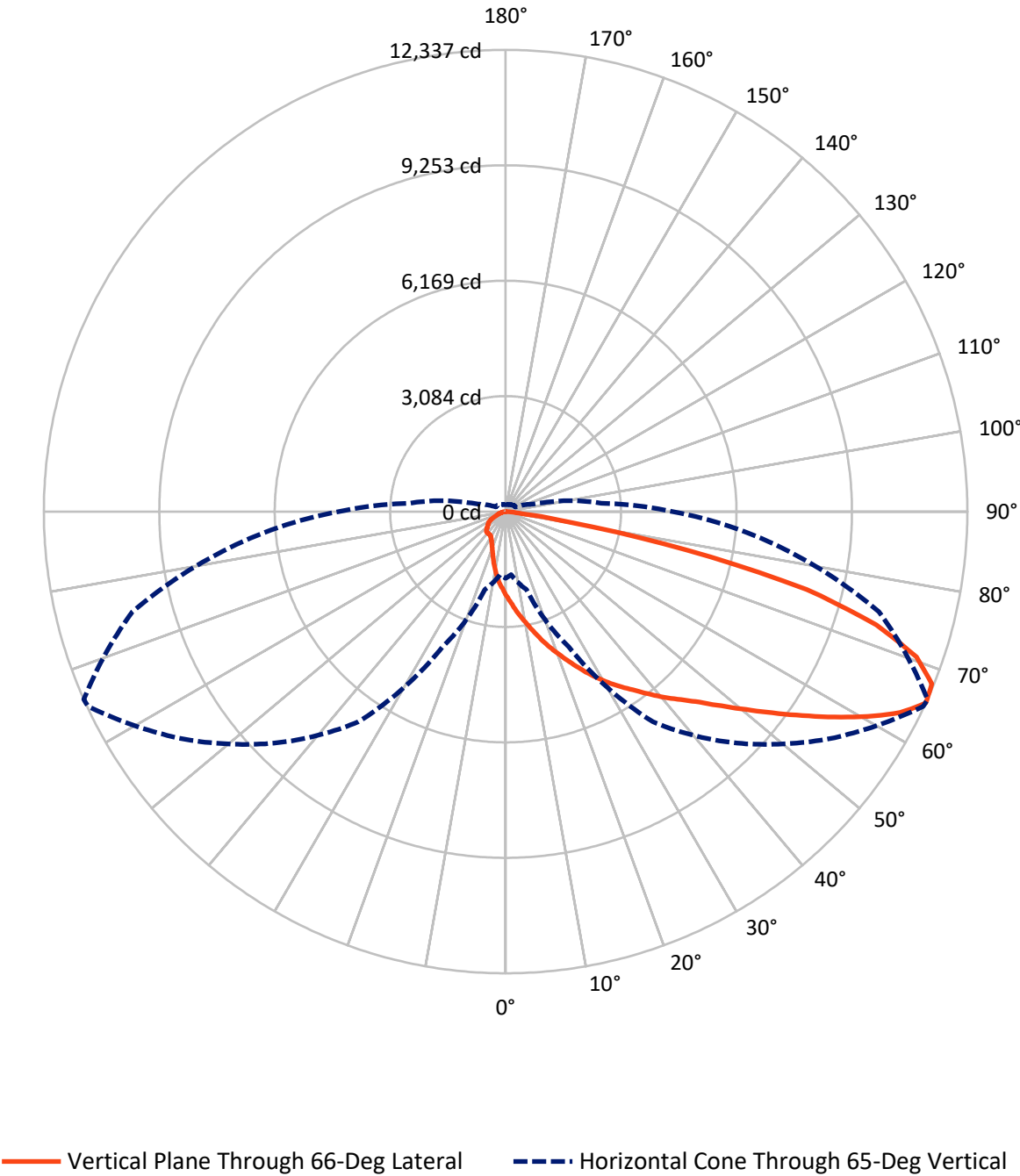


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type III - Short - N/A

REPORT NUMBER: P836472
CATALOG NUMBER: ARCH3-190-730-U-T3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1796.1	0.0	1796.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	15184.9	0.0	15184.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	16981.0	0.0	16981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.3
10°-20°	723.0	4.3
20°-30°	1308.0	7.7
30°-40°	2045.4	12.0
40°-50°	3102.9	18.3
50°-60°	3942.3	23.2
60°-70°	3683.7	21.7
70°-80°	1830.8	10.8
80°-90°	123.0	0.7
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°	16981.0	100.0
0°-180°	16981.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836472

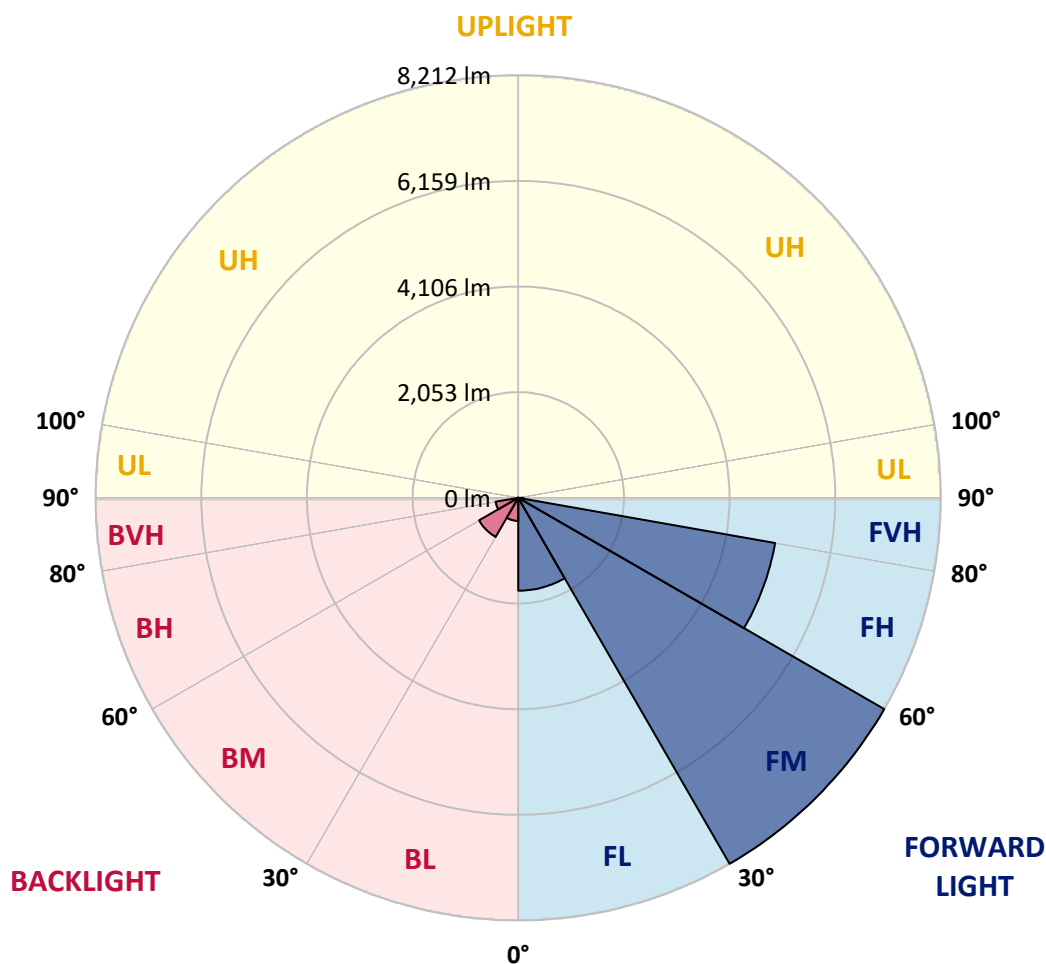
CATALOG NUMBER: ARCH3-190-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1804.2	10.6			
FM	(30°-60°)	8212.2	48.4			
FH	(60°-80°)	5067.2	29.8			G3/7500
FVH	(80°-90°)	101.2	0.6			G2/225
BL	(0°-30°)	448.6	2.6	B1/500		
BM	(30°-60°)	878.5	5.2	B1/1000		
BH	(60°-80°)	447.3	2.6	B1/500		G1/500
BVH	(80°-90°)	21.8	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-G3

Type III Short



REPORT NUMBER: P836472

CATALOG NUMBER: ARCH3-190-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3
2.5°	2624.9	2646.2	2656.9	2660.5	2578.6	2543.0	2507.3	2425.4	2407.6	2361.3	2300.8
5°	3087.9	3116.4	3109.2	3095.0	2995.3	2881.3	2788.7	2635.6	2610.6	2500.2	2364.9
7.5°	3543.7	3568.7	3561.6	3508.1	3397.7	3237.5	3084.3	2859.9	2824.3	2646.2	2429.0
10°	3924.8	3946.2	3942.6	3889.2	3757.4	3561.6	3376.4	3077.2	3034.4	2781.6	2482.4
12.5°	4238.3	4266.7	4263.2	4227.6	4110.0	3896.3	3686.2	3326.5	3273.1	2945.4	2557.2
15°	4484.0	4519.6	4519.6	4505.4	4423.5	4245.4	4006.8	3600.7	3536.6	3134.2	2649.8
17.5°	4633.6	4662.1	4687.0	4711.9	4655.0	4519.6	4302.4	3875.0	3807.3	3319.4	2746.0
20°	4711.9	4740.4	4758.2	4811.7	4822.3	4754.7	4583.7	4145.7	4074.4	3529.5	2856.4
22.5°	4840.2	4865.1	4868.6	4914.9	4936.3	4954.1	4847.3	4412.8	4355.8	3761.0	2981.0
25°	5053.8	5082.3	5071.7	5093.0	5096.6	5118.0	5107.3	4719.1	4662.1	4024.6	3130.6
27.5°	5328.1	5363.7	5356.6	5335.2	5303.2	5285.3	5331.7	5028.9	4975.5	4288.1	3283.8
30°	5623.7	5666.4	5655.8	5613.0	5527.5	5452.7	5516.9	5321.0	5271.1	4558.8	3454.7
32.5°	5922.9	5972.7	5969.2	5897.9	5751.9	5623.7	5719.9	5595.2	5559.6	4850.8	3639.9
35°	6118.8	6182.9	6175.7	6133.0	5944.2	5833.8	5951.4	5876.6	5851.6	5207.0	3907.0
37.5°	6435.7	6503.4	6442.9	6336.0	6118.8	6061.8	6204.2	6193.5	6175.7	5584.5	4188.4
40°	7205.0	7304.8	7144.5	6706.4	6350.3	6300.4	6503.4	6546.1	6528.3	5958.5	4441.3
42.5°	8009.9	8159.5	7910.2	7304.8	6770.5	6588.9	6831.1	6891.6	6870.2	6279.0	4669.2
45°	8497.9	8562.0	8312.7	7842.5	7514.9	6937.9	7180.1	7279.8	7262.0	6663.7	4961.2
47.5°	8896.8	8871.8	8586.9	8269.9	8330.5	7429.4	7575.4	7771.3	7757.1	7087.5	5281.8
50°	8982.2	8925.3	8811.3	8611.8	8772.1	7928.0	7992.1	8330.5	8316.2	7557.6	5605.9
52.5°	8380.3	8305.5	8615.4	8782.8	8729.4	8291.3	8451.6	8943.1	8935.9	8066.9	5915.7
55°	6877.4	6816.8	7650.2	8515.7	8683.1	8547.7	8960.9	9580.6	9619.8	8608.3	6197.1
57.5°	5410.0	5345.9	6165.1	7846.1	8512.1	8782.8	9555.7	10310.7	10360.6	9195.9	6464.2
60°	4313.0	4216.9	4843.7	6791.9	8191.6	8964.4	10129.1	11112.1	11119.2	9733.7	6628.1
62.5°	2931.2	2824.3	3518.8	5456.3	7653.8	8992.9	10570.7	11803.0	11831.5	10136.2	6656.5
65°	1780.8	1691.7	2161.9	3985.4	6859.6	8750.7	10577.8	12312.3	12337.2	10321.4	6485.6
67.5°	1032.9	997.2	1235.9	2482.4	5541.8	8099.0	10132.6	12233.9	12280.2	10243.0	6097.4
70°	601.9	598.3	687.4	1228.7	3910.6	6806.1	9139.0	11575.1	11642.7	9833.5	5502.6
72.5°	441.6	448.8	484.4	658.9	2265.1	4900.7	7739.3	10250.2	10353.4	9032.1	4655.0
75°	349.0	352.6	384.6	448.8	1189.6	2770.9	5798.2	8227.2	8309.1	7603.9	3636.3
77.5°	260.0	267.1	292.0	317.0	552.0	1271.5	3262.4	5068.1	4932.8	4174.1	1755.8
80°	188.8	206.6	217.3	227.9	292.0	491.5	979.4	1766.5	1752.3	1823.5	829.8
82.5°	121.1	135.3	146.0	153.1	174.5	235.1	292.0	395.3	427.4	708.7	331.2
85°	53.4	60.5	67.7	81.9	74.8	81.9	121.1	78.4	67.7	106.8	60.5
87.5°	0.0	0.0	10.7	17.8	14.2	7.1	21.4	14.2	10.7	10.7	10.7
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: P836472

CATALOG NUMBER: ARCH3-190-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3	2247.3
2.5°	2268.7	2229.5	2147.6	2069.3	2023.0	1962.4	1909.0	1859.1	1855.6	1841.3	1816.4
5°	2297.2	2222.4	2069.3	1923.2	1812.8	1695.3	1595.6	1517.2	1488.7	1467.4	1438.9
7.5°	2325.7	2208.2	1980.2	1766.5	1592.0	1428.2	1310.7	1203.8	1171.8	1143.3	1125.5
10°	2336.4	2183.2	1876.9	1592.0	1364.1	1189.6	1064.9	986.6	958.1	943.8	933.1
12.5°	2368.4	2169.0	1780.8	1428.2	1164.6	1004.4	915.3	869.0	858.3	847.7	837.0
15°	2411.2	2169.0	1684.6	1267.9	1007.9	879.7	826.3	794.2	787.1	783.5	776.4
17.5°	2457.5	2169.0	1592.0	1132.6	894.0	797.8	758.6	740.8	737.2	733.7	730.1
20°	2521.6	2172.5	1492.3	1015.0	812.0	737.2	705.2	683.8	680.3	676.7	676.7
22.5°	2585.7	2179.7	1396.1	926.0	758.6	690.9	651.8	630.4	623.3	623.3	623.3
25°	2667.6	2201.0	1307.1	851.2	712.3	648.2	598.3	580.5	577.0	577.0	573.4
27.5°	2763.8	2226.0	1228.7	794.2	666.0	598.3	548.5	530.7	523.5	523.5	520.0
30°	2867.1	2250.9	1164.6	751.5	619.7	548.5	502.2	480.8	473.7	477.2	473.7
32.5°	2981.0	2286.5	1114.8	723.0	577.0	505.7	463.0	438.1	434.5	434.5	430.9
35°	3173.3	2386.2	1107.6	708.7	541.4	473.7	430.9	406.0	402.5	402.5	398.9
37.5°	3379.9	2500.2	1139.7	701.6	512.9	445.2	406.0	381.1	377.5	377.5	377.5
40°	3554.4	2585.7	1175.3	701.6	495.1	420.3	384.6	363.3	363.3	363.3	363.3
42.5°	3672.0	2592.8	1168.2	701.6	480.8	402.5	370.4	349.0	349.0	352.6	349.0
45°	3846.5	2628.4	1139.7	690.9	470.1	388.2	356.2	338.3	334.8	338.3	338.3
47.5°	4053.1	2692.5	1111.2	648.2	466.6	374.0	345.5	324.1	320.5	324.1	320.5
50°	4248.9	2749.5	1097.0	591.2	459.4	359.7	331.2	309.9	306.3	309.9	306.3
52.5°	4412.8	2774.5	1072.0	552.0	441.6	345.5	317.0	295.6	288.5	292.0	292.0
55°	4544.5	2767.3	1036.4	520.0	409.6	331.2	299.2	281.4	270.7	270.7	267.1
57.5°	4665.6	2770.9	1004.4	487.9	374.0	309.9	284.9	263.6	249.3	245.7	242.2
60°	4711.9	2753.1	947.4	445.2	338.3	292.0	267.1	242.2	227.9	224.4	220.8
62.5°	4647.8	2689.0	872.6	370.4	306.3	270.7	249.3	224.4	210.1	206.6	203.0
65°	4466.2	2567.9	758.6	292.0	277.8	245.7	227.9	210.1	192.3	185.2	181.6
67.5°	4156.3	2393.4	616.1	235.1	245.7	224.4	213.7	192.3	171.0	163.8	160.3
70°	3714.7	2161.9	463.0	199.4	217.3	199.4	192.3	171.0	153.1	146.0	142.5
72.5°	3095.0	1787.9	324.1	171.0	188.8	174.5	167.4	153.1	135.3	124.7	124.7
75°	2339.9	1282.2	213.7	146.0	156.7	149.6	138.9	128.2	117.5	110.4	106.8
77.5°	1007.9	498.6	131.8	110.4	128.2	124.7	110.4	103.3	99.7	92.6	92.6
80°	434.5	203.0	81.9	81.9	92.6	89.0	85.5	78.4	78.4	74.8	71.2
82.5°	160.3	81.9	49.9	60.5	67.7	60.5	60.5	60.5	60.5	57.0	57.0
85°	39.2	24.9	24.9	35.6	39.2	35.6	39.2	35.6	35.6	35.6	32.1
87.5°	10.7	10.7	14.2	14.2	14.2	14.2	14.2	10.7	0.0	0.0	0.0
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)