

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: P1210556

Luminaire Tested: **ARCH3-160-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210556
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: ARCH3-160-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 15506 lumens
Efficiency: N/A
Efficacy: 96.3 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

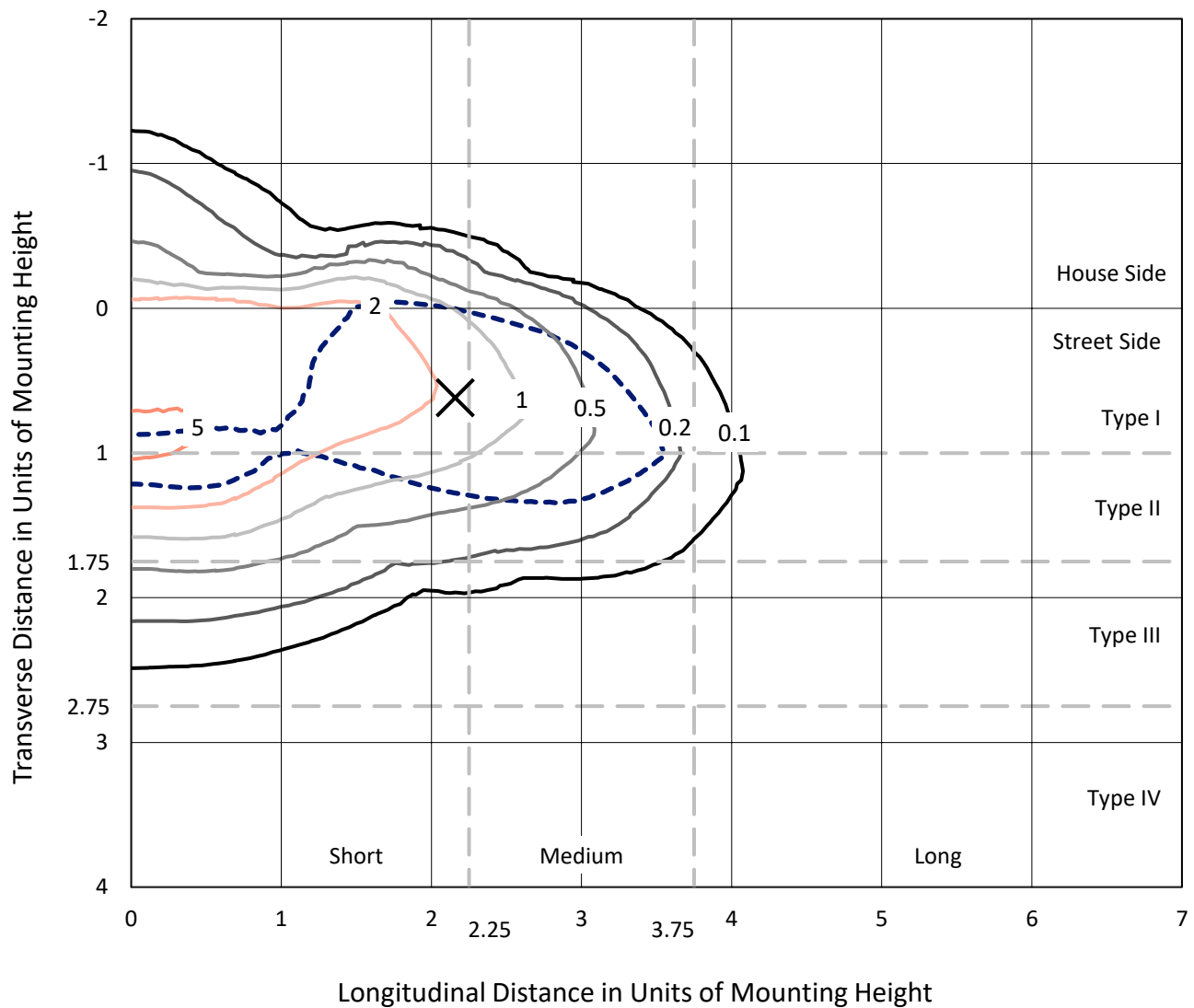
Input Watts (W): 161
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1210556
 CATALOG NUMBER: ARCH3-160-730-U-T2RE-HSS

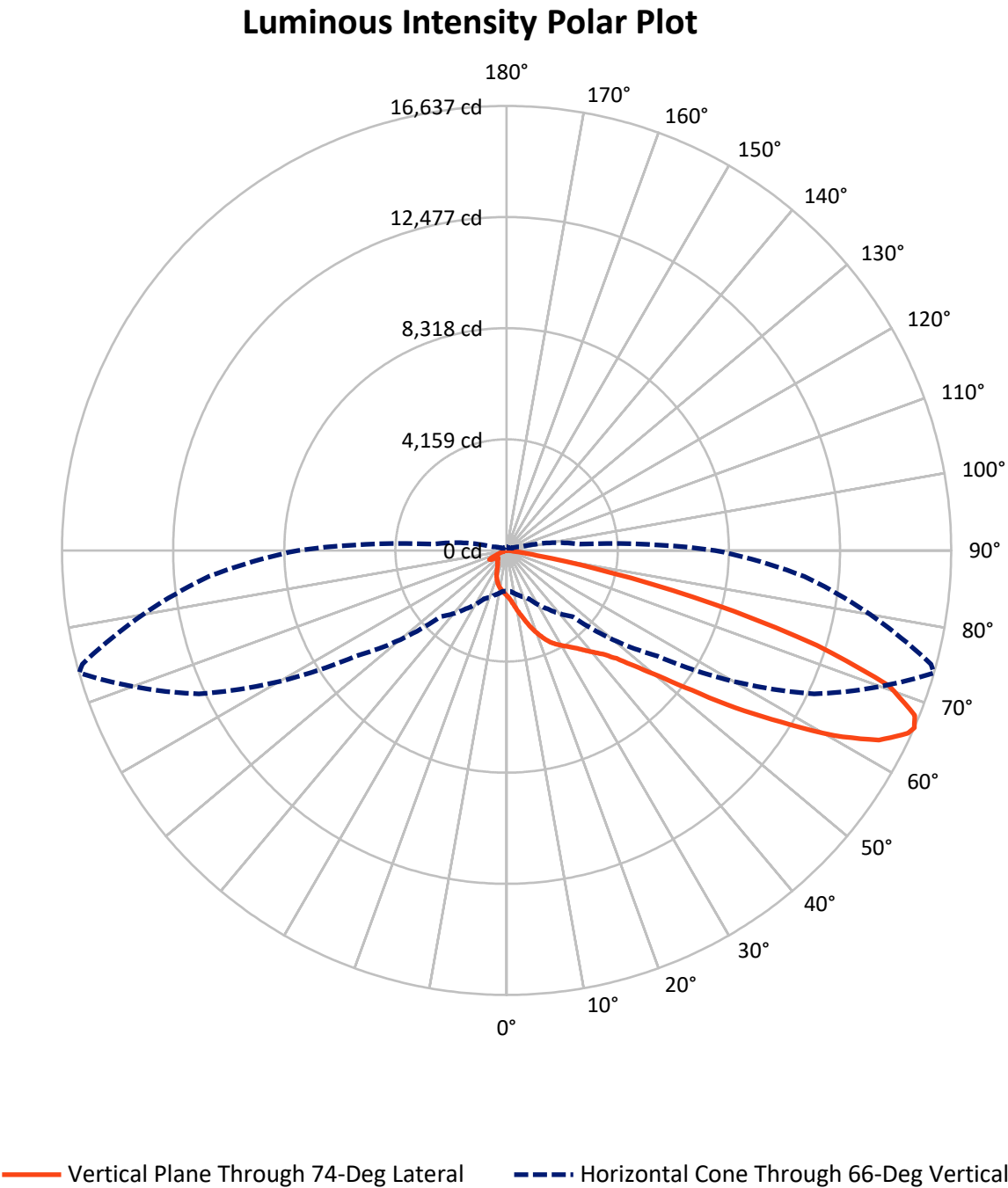
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P1210556
CATALOG NUMBER: ARCH3-160-730-U-T2RE-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.1	0.0	1520.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13985.9	0.0	13985.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	15506.0	0.0	15506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.1
10°-20°	529.6	3.4
20°-30°	1010.8	6.5
30°-40°	1771.6	11.4
40°-50°	3037.9	19.6
50°-60°	3951.0	25.5
60°-70°	3576.7	23.1
70°-80°	1380.1	8.9
80°-90°	83.0	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°	15506.0	100.0
0°-180°	15506.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210556

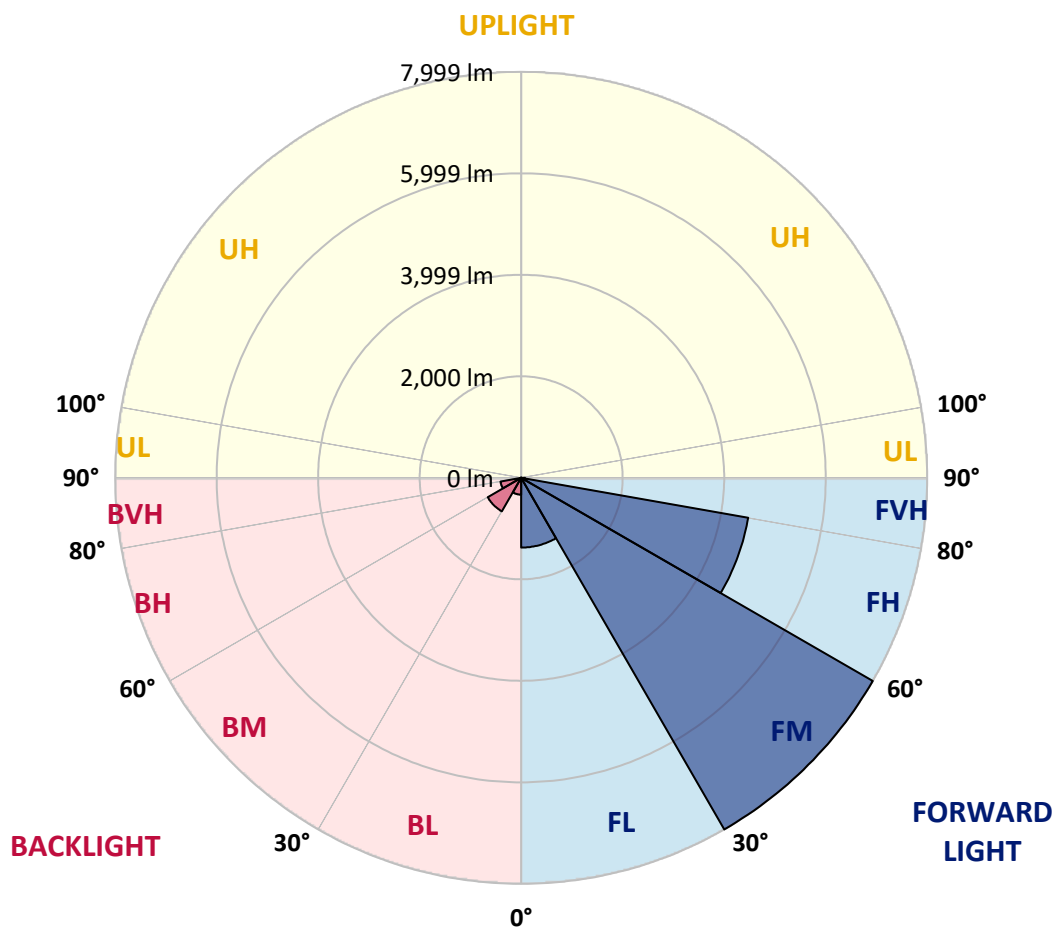
CATALOG NUMBER: ARCH3-160-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.1	8.9			
FM	(30°-60°)	7998.8	51.6			
FH	(60°-80°)	4541.2	29.3			G2/5000
FVH	(80°-90°)	71.9	0.5			G1/100
BL	(0°-30°)	331.6	2.1	B1/500		
BM	(30°-60°)	761.8	4.9	B1/1000		
BH	(60°-80°)	415.6	2.7	B1/500		G1/500
BVH	(80°-90°)	11.1	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: P1210556

CATALOG NUMBER: ARCH3-160-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	2032.3	2015.5	1984.9	1982.1	1957.1	1926.5	1873.6	1817.9	1778.9	1773.3	1726.0
5°	2433.1	2424.8	2394.2	2374.7	2327.3	2255.0	2132.5	2010.0	1907.0	1895.8	1790.1
7.5°	2538.9	2544.5	2550.1	2569.5	2552.8	2519.4	2427.6	2255.0	2093.5	2068.4	1884.7
10°	2555.6	2550.1	2550.1	2575.1	2622.4	2669.8	2658.6	2511.1	2302.3	2271.7	2015.5
12.5°	2736.6	2744.9	2725.4	2714.3	2706.0	2731.0	2814.5	2750.5	2522.2	2497.2	2174.2
15°	2970.4	2967.6	2939.8	2939.8	2914.7	2873.0	2925.9	2973.2	2786.7	2756.1	2355.2
17.5°	3140.2	3151.4	3148.6	3165.3	3156.9	3101.3	3073.4	3170.9	3059.5	3020.5	2561.2
20°	3276.7	3307.3	3318.4	3371.3	3396.4	3357.4	3285.0	3346.3	3321.2	3285.0	2770.0
22.5°	3421.4	3446.5	3466.0	3557.8	3627.4	3619.1	3527.2	3513.3	3574.5	3541.1	2976.0
25°	3566.2	3577.3	3635.8	3747.1	3858.5	3886.3	3791.7	3683.1	3802.8	3772.2	3159.7
27.5°	3724.9	3730.4	3800.0	3936.4	4092.3	4150.8	4075.6	3875.2	3978.2	3978.2	3326.8
30°	4014.4	4070.1	4097.9	4220.4	4356.8	4437.5	4348.5	4078.4	4134.1	4159.2	3502.2
32.5°	4638.0	4646.3	4638.0	4690.9	4718.7	4766.0	4663.0	4306.7	4292.8	4320.6	3674.8
35°	5590.1	5556.7	5467.6	5389.6	5228.2	5139.1	5005.5	4599.0	4487.7	4526.6	3844.6
37.5°	6745.4	6698.1	6494.8	6255.4	5910.2	5553.9	5386.9	4955.4	4735.4	4785.5	4028.3
40°	7847.8	7817.2	7575.0	7279.9	6689.7	6080.0	5726.5	5256.0	5011.0	5030.5	4214.8
42.5°	8755.4	8749.8	8546.6	8237.6	7480.4	6648.0	6127.4	5551.1	5300.6	5331.2	4409.7
45°	9443.0	9390.1	9239.8	9017.1	8245.9	7238.2	6611.8	5999.3	5765.5	5801.7	4702.0
47.5°	9443.0	9451.4	9548.8	9526.5	8780.4	7792.1	7140.7	6564.4	6453.1	6486.5	5183.6
50°	8674.6	8752.6	9186.9	9551.6	9058.8	8223.7	7711.4	7271.6	7385.7	7435.8	6024.4
52.5°	7154.6	7285.5	8039.9	8872.3	8852.8	8440.8	8301.6	8170.8	8683.0	8772.1	7266.0
55°	5437.0	5523.3	6506.0	7600.1	7956.4	8262.6	8816.6	9312.2	10400.7	10381.2	8527.1
57.5°	4061.7	4142.4	4988.8	6202.5	6673.0	7491.5	9081.1	10617.8	12104.4	12179.6	9710.3
60°	2987.1	3048.4	3769.4	4766.0	5445.3	6311.1	8975.3	11904.0	14067.1	13980.8	10754.2
62.5°	2210.4	2243.8	2764.4	3413.1	4315.1	5141.9	8310.0	12783.7	15634.4	15459.0	11336.1
65°	1709.3	1720.5	1990.5	2335.7	3137.5	3997.7	7318.9	12917.3	16500.2	16313.7	11324.9
66°	1522.8	1531.1	1728.8	1996.1	2669.8	3499.4	6884.6	12703.0	16636.6	16439.0	11185.7
67.5°	1277.8	1272.2	1389.2	1564.6	2004.4	2700.4	6113.5	12076.6	16475.1	16374.9	10740.3
70°	946.5	949.3	1007.8	1049.5	1172.0	1495.0	4415.3	10475.8	15183.4	15177.8	9518.2
72.5°	701.5	709.9	754.4	762.8	732.2	810.1	2544.5	8332.2	12146.2	12149.0	7115.7
75°	526.2	540.1	554.0	559.6	531.7	512.2	1149.8	5606.8	7989.8	7931.3	4028.3
77.5°	400.9	406.5	417.6	409.2	403.7	353.6	478.8	2733.8	3944.8	3594.0	1305.7
80°	292.3	292.3	303.4	292.3	289.5	253.3	261.7	876.9	1158.1	963.2	281.2
82.5°	183.7	181.0	189.3	186.5	181.0	161.5	153.1	245.0	267.3	239.4	136.4
85°	103.0	100.2	97.4	94.7	86.3	72.4	83.5	91.9	122.5	125.3	97.4
87.5°	36.2	36.2	33.4	30.6	25.1	25.1	30.6	30.6	44.5	44.5	50.1
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: P1210556

CATALOG NUMBER: ARCH3-160-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	1703.7	1673.1	1628.6	1570.1	1528.4	1486.6	1442.1	1417.0	1380.8	1372.5	1383.6
5°	1734.4	1678.7	1567.3	1444.8	1339.1	1244.4	1155.3	1102.4	1049.5	1030.0	1038.4
7.5°	1798.4	1703.7	1514.4	1316.8	1141.4	999.4	893.6	832.4	785.1	765.6	771.1
10°	1893.1	1748.3	1464.3	1172.0	946.5	796.2	707.1	668.1	640.3	629.2	631.9
12.5°	2007.2	1812.3	1400.3	1027.3	779.5	648.6	606.9	598.5	593.0	587.4	590.2
15°	2135.3	1868.0	1325.1	885.3	648.6	576.3	562.3	559.6	556.8	556.8	556.8
17.5°	2268.9	1918.1	1241.6	751.7	565.1	531.7	523.4	523.4	523.4	526.2	526.2
20°	2394.2	1957.1	1144.2	631.9	517.8	490.0	484.4	484.4	487.2	490.0	490.0
22.5°	2516.6	1973.8	1030.0	548.4	478.8	453.8	445.4	445.4	445.4	448.2	448.2
25°	2622.4	1973.8	915.9	495.5	445.4	420.4	409.2	406.5	409.2	409.2	409.2
27.5°	2711.5	1965.4	804.5	459.3	412.0	387.0	375.8	373.0	378.6	381.4	381.4
30°	2806.2	1954.3	715.5	425.9	384.2	359.1	348.0	348.0	356.3	367.5	367.5
32.5°	2898.0	1962.7	645.9	398.1	356.3	336.9	325.7	328.5	345.2	361.9	361.9
35°	2995.5	1979.4	604.1	378.6	336.9	317.4	309.0	317.4	334.1	350.8	350.8
37.5°	3092.9	1998.8	579.1	361.9	320.1	300.7	295.1	306.2	325.7	342.4	345.2
40°	3195.9	2015.5	551.2	345.2	309.0	286.7	284.0	295.1	320.1	336.9	339.6
42.5°	3324.0	2049.0	517.8	331.3	297.9	270.0	272.8	281.2	306.2	331.3	334.1
45°	3574.5	2154.7	484.4	317.4	284.0	261.7	256.1	261.7	289.5	317.4	322.9
47.5°	4045.0	2394.2	448.2	303.4	270.0	256.1	233.8	239.4	264.5	295.1	297.9
50°	4947.0	2903.6	428.7	289.5	258.9	236.6	211.6	211.6	231.1	258.9	258.9
52.5°	6352.9	3816.7	439.9	278.4	245.0	217.1	192.1	189.3	200.4	219.9	219.9
55°	7870.1	4818.9	481.6	267.3	228.3	206.0	178.2	164.3	172.6	183.7	183.7
57.5°	9072.7	5322.8	595.8	261.7	208.8	197.7	161.5	142.0	150.3	161.5	161.5
60°	9601.7	5027.7	723.8	267.3	194.9	183.7	144.8	125.3	139.2	150.3	153.1
62.5°	9173.0	4139.7	776.7	253.3	175.4	164.3	142.0	116.9	133.6	142.0	144.8
65°	8245.9	3145.8	606.9	219.9	161.5	142.0	128.1	111.4	125.3	133.6	133.6
66°	7806.1	2742.1	517.8	203.2	155.9	133.6	122.5	111.4	122.5	128.1	130.8
67.5°	7124.0	2163.1	384.2	178.2	144.8	122.5	114.1	105.8	116.9	122.5	122.5
70°	5570.6	1288.9	231.1	139.2	125.3	108.6	103.0	97.4	105.8	108.6	108.6
72.5°	3488.2	612.5	147.5	103.0	105.8	103.0	86.3	91.9	94.7	97.4	97.4
75°	1689.8	242.2	100.2	75.2	86.3	97.4	69.6	80.7	83.5	89.1	86.3
77.5°	470.5	116.9	64.0	55.7	75.2	75.2	52.9	64.0	75.2	94.7	86.3
80°	136.4	75.2	41.8	41.8	52.9	52.9	36.2	44.5	50.1	55.7	58.5
82.5°	94.7	50.1	27.8	30.6	30.6	33.4	22.3	22.3	27.8	27.8	30.6
85°	75.2	22.3	16.7	19.5	13.9	16.7	11.1	11.1	13.9	11.1	11.1
87.5°	30.6	11.1	11.1	11.1	8.4	8.4	5.6	2.8	2.8	2.8	2.8
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)