

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: P841626

Luminaire Tested: **ARCH4-200-750-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22243 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

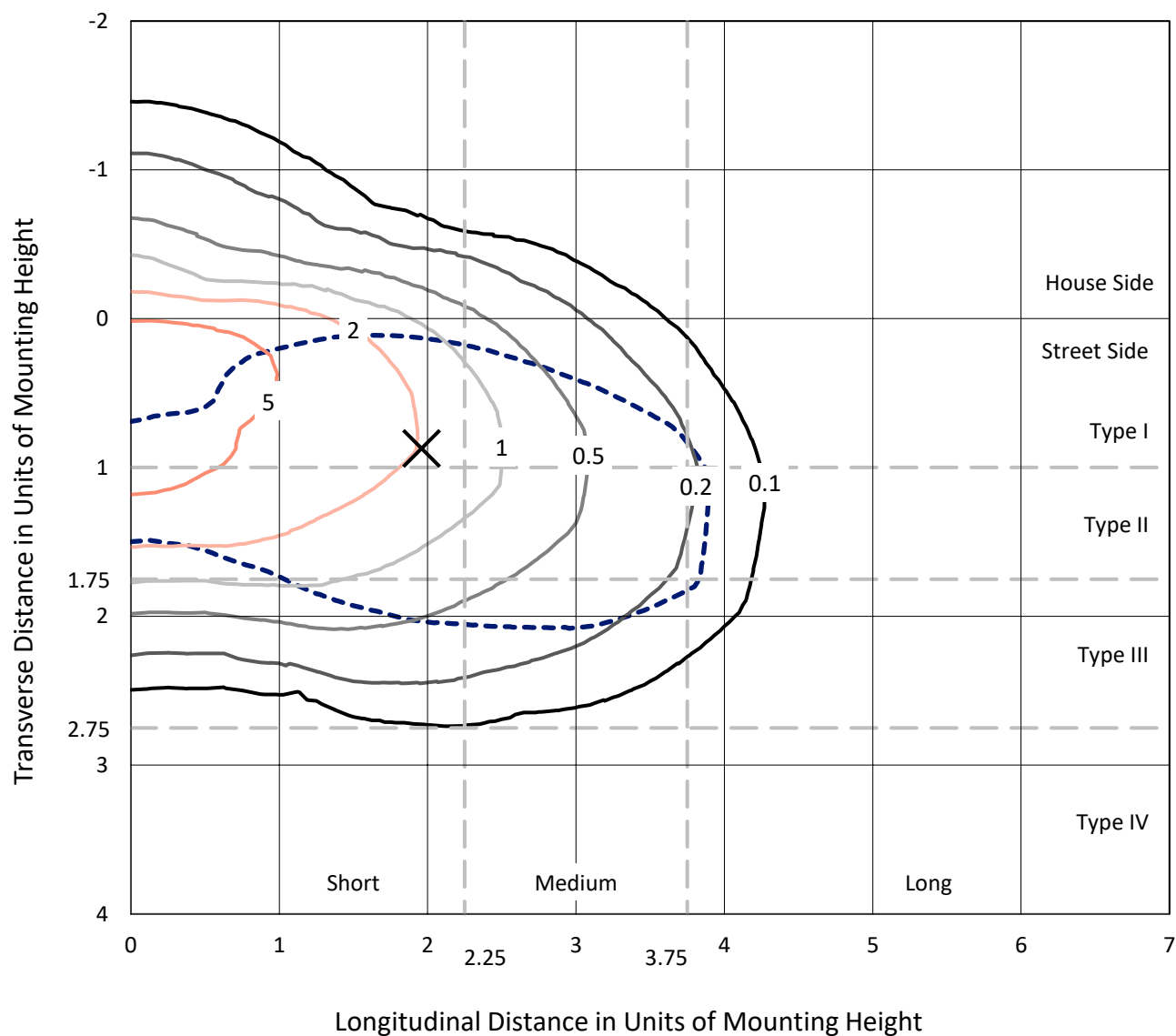
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

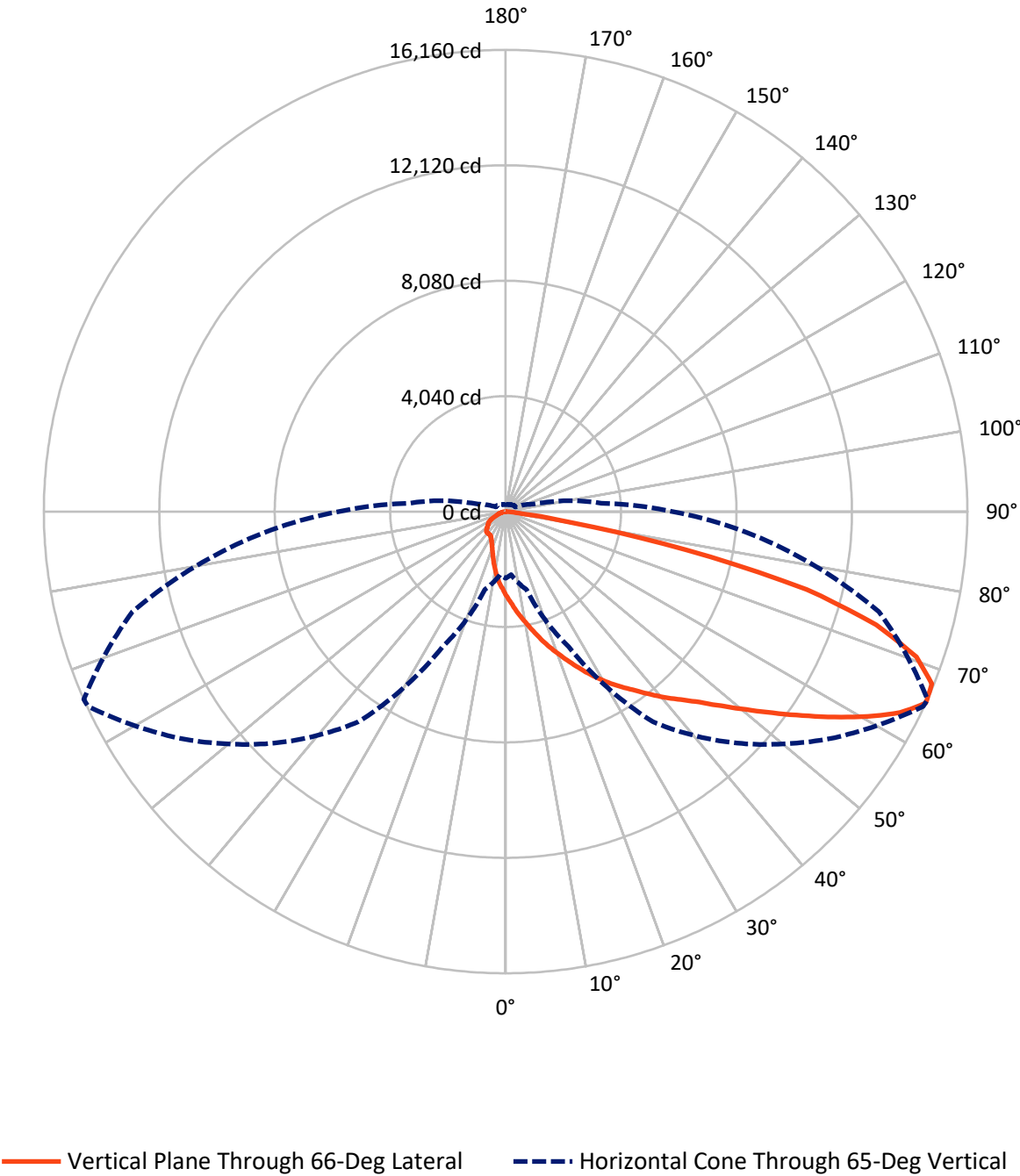
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2352.7	0.0	2352.7
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	19890.3	0.0	19890.3
	% Fixture	89.4	0.0	89.4
Total	Lumens	22243.0	0.0	22243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.3
10°-20°	947.0	4.3
20°-30°	1713.4	7.7
30°-40°	2679.3	12.0
40°-50°	4064.4	18.3
50°-60°	5164.0	23.2
60°-70°	4825.2	21.7
70°-80°	2398.1	10.8
80°-90°	161.1	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°	22243.0	100.0
0°-180°	22243.0	100.0

Coefficient of Utilization



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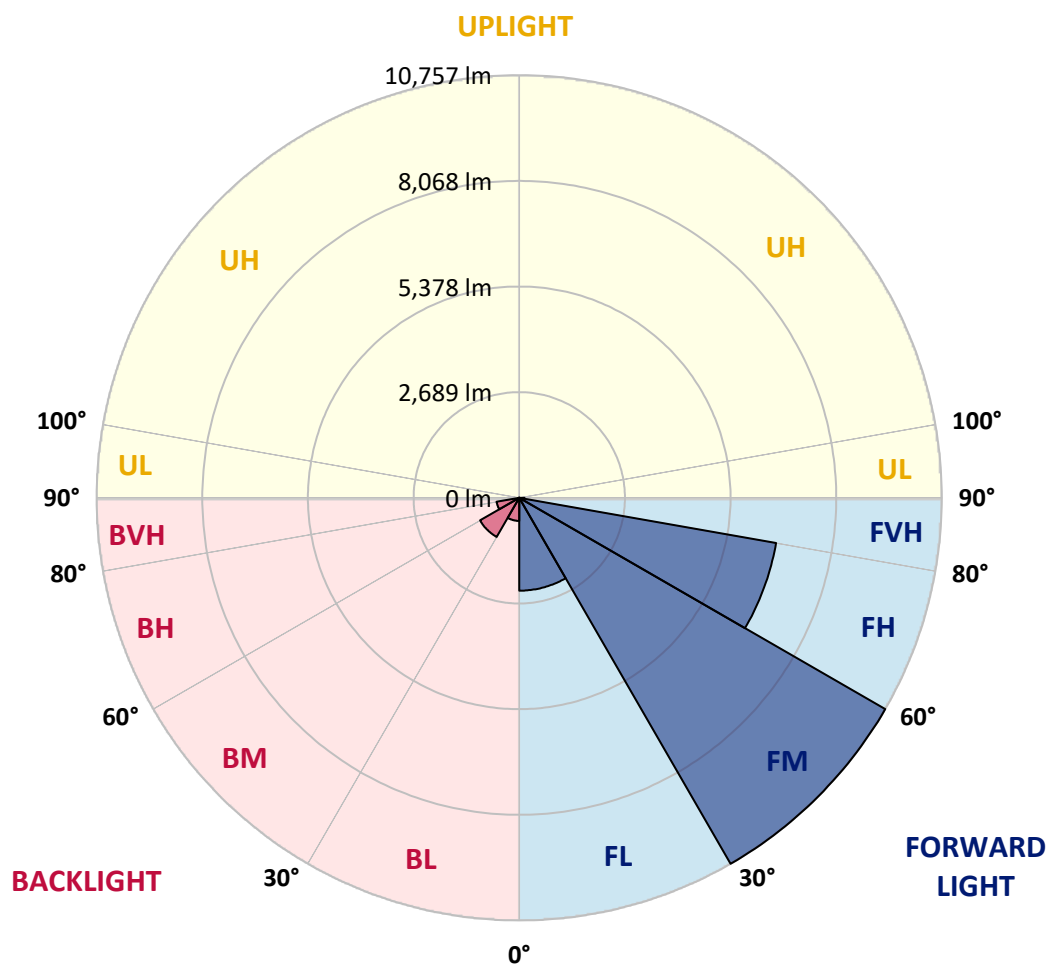
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.3	10.6			
FM	(30°-60°)	10757.0	48.4			
FH	(60°-80°)	6637.4	29.8			G3/7500
FVH	(80°-90°)	132.6	0.6			G2/225
BL	(0°-30°)	587.6	2.6	B2/1000		
BM	(30°-60°)	1150.7	5.2	B2/2500		
BH	(60°-80°)	585.9	2.6	B2/1000		G2/1000
BVH	(80°-90°)	28.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7
2.5°	3438.2	3466.2	3480.2	3484.9	3377.6	3331.0	3284.3	3177.0	3153.7	3093.0	3013.7
5°	4044.7	4082.0	4072.7	4054.1	3923.4	3774.1	3652.8	3452.2	3419.6	3275.0	3097.7
7.5°	4641.9	4674.5	4665.2	4595.2	4450.6	4240.7	4040.1	3746.2	3699.5	3466.2	3181.7
10°	5141.0	5169.0	5164.4	5094.4	4921.8	4665.2	4422.6	4030.7	3974.7	3643.5	3251.6
12.5°	5551.6	5588.9	5584.2	5537.6	5383.6	5103.7	4828.5	4357.3	4287.3	3858.1	3349.6
15°	5873.5	5920.1	5920.1	5901.5	5794.2	5560.9	5248.3	4716.5	4632.5	4105.4	3470.9
17.5°	6069.4	6106.7	6139.4	6172.1	6097.4	5920.1	5635.6	5075.7	4987.1	4348.0	3596.9
20°	6172.1	6209.4	6232.7	6302.7	6316.7	6228.0	6004.1	5430.3	5337.0	4623.2	3741.5
22.5°	6340.0	6372.7	6377.3	6438.0	6466.0	6489.3	6349.3	5780.2	5705.5	4926.4	3904.8
25°	6619.9	6657.2	6643.2	6671.2	6675.9	6703.9	6689.9	6181.4	6106.7	5271.7	4100.7
27.5°	6979.1	7025.8	7016.5	6988.5	6946.5	6923.2	6983.8	6587.3	6517.3	5616.9	4301.3
30°	7366.3	7422.3	7408.3	7352.3	7240.4	7142.4	7226.4	6969.8	6904.5	5971.5	4525.2
32.5°	7758.2	7823.5	7818.9	7725.6	7534.3	7366.3	7492.3	7329.0	7282.4	6354.0	4767.8
35°	8014.8	8098.8	8089.5	8033.5	7786.2	7641.6	7795.5	7697.6	7664.9	6820.5	5117.7
37.5°	8430.0	8518.6	8439.3	8299.4	8014.8	7940.2	8126.8	8112.8	8089.5	7315.0	5486.3
40°	9437.7	9568.3	9358.4	8784.6	8318.0	8252.7	8518.6	8574.6	8551.3	7804.9	5817.5
42.5°	10492.0	10688.0	10361.4	9568.3	8868.5	8630.6	8947.8	9027.2	8999.2	8224.7	6116.1
45°	11131.2	11215.1	10888.6	10272.8	9843.6	9087.8	9405.0	9535.7	9512.3	8728.6	6498.6
47.5°	11653.7	11621.0	11247.8	10832.6	10911.9	9731.6	9922.9	10179.5	10160.8	9283.7	6918.5
50°	11765.6	11691.0	11541.7	11280.4	11490.4	10384.7	10468.7	10911.9	10893.2	9899.5	7343.0
52.5°	10977.2	10879.2	11285.1	11504.4	11434.4	10860.6	11070.5	11714.3	11705.0	10566.7	7748.9
55°	9008.5	8929.2	10020.8	11154.5	11373.7	11196.5	11737.6	12549.4	12600.7	11275.8	8117.4
57.5°	7086.4	7002.5	8075.5	10277.4	11149.8	11504.4	12516.7	13505.7	13571.1	12045.5	8467.3
60°	5649.6	5523.6	6344.7	8896.5	10730.0	11742.3	13267.8	14555.4	14564.7	12750.0	8681.9
62.5°	3839.5	3699.5	4609.2	7147.1	10025.5	11779.6	13846.3	15460.5	15497.8	13277.1	8719.3
65°	2332.6	2216.0	2831.8	5220.4	8985.2	11462.4	13855.6	16127.6	16160.2	13519.7	8495.3
67.5°	1352.9	1306.3	1618.8	3251.6	7259.0	10608.7	13272.5	16025.0	16085.6	13417.1	7986.8
70°	788.4	783.8	900.4	1609.5	5122.4	8915.2	11970.9	15161.9	15250.5	12880.6	7207.7
72.5°	578.5	587.8	634.5	863.1	2967.1	6419.3	10137.5	13426.4	13561.7	11830.9	6097.4
75°	457.2	461.9	503.8	587.8	1558.2	3629.5	7594.9	10776.6	10883.9	9960.2	4763.2
77.5°	340.6	349.9	382.5	415.2	723.1	1665.5	4273.3	6638.6	6461.3	5467.6	2299.9
80°	247.3	270.6	284.6	298.6	382.5	643.8	1282.9	2313.9	2295.3	2388.6	1087.0
82.5°	158.6	177.3	191.3	200.6	228.6	307.9	382.5	517.8	559.8	928.4	433.9
85°	70.0	79.3	88.6	107.3	98.0	107.3	158.6	102.6	88.6	140.0	79.3
87.5°	0.0	0.0	14.0	23.3	18.7	9.3	28.0	18.7	14.0	14.0	14.0
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°	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7	2943.7
2.5°	2971.7	2920.4	2813.1	2710.5	2649.8	2570.5	2500.5	2435.2	2430.6	2411.9	2379.3
5°	3009.1	2911.1	2710.5	2519.2	2374.6	2220.6	2090.0	1987.4	1950.1	1922.1	1884.7
7.5°	3046.4	2892.4	2593.8	2313.9	2085.3	1870.7	1716.8	1576.8	1534.8	1497.5	1474.2
10°	3060.4	2859.8	2458.6	2085.3	1786.8	1558.2	1394.9	1292.3	1254.9	1236.3	1222.3
12.5°	3102.4	2841.1	2332.6	1870.7	1525.5	1315.6	1199.0	1138.3	1124.3	1110.3	1096.3
15°	3158.3	2841.1	2206.6	1660.8	1320.3	1152.3	1082.3	1040.3	1031.0	1026.3	1017.0
17.5°	3219.0	2841.1	2085.3	1483.5	1171.0	1045.0	993.7	970.4	965.7	961.0	956.4
20°	3303.0	2845.8	1954.7	1329.6	1063.7	965.7	923.7	895.7	891.1	886.4	886.4
22.5°	3386.9	2855.1	1828.8	1213.0	993.7	905.0	853.7	825.7	816.4	816.4	816.4
25°	3494.2	2883.1	1712.1	1115.0	933.0	849.1	783.8	760.4	755.8	755.8	751.1
27.5°	3620.2	2915.7	1609.5	1040.3	872.4	783.8	718.4	695.1	685.8	685.8	681.1
30°	3755.5	2948.4	1525.5	984.4	811.7	718.4	657.8	629.8	620.5	625.1	620.5
32.5°	3904.8	2995.1	1460.2	947.0	755.8	662.5	606.5	573.8	569.2	569.2	564.5
35°	4156.7	3125.7	1450.9	928.4	709.1	620.5	564.5	531.8	527.2	527.2	522.5
37.5°	4427.3	3275.0	1492.9	919.0	671.8	583.1	531.8	499.2	494.5	494.5	494.5
40°	4655.9	3386.9	1539.5	919.0	648.5	550.5	503.8	475.9	475.9	475.9	475.9
42.5°	4809.8	3396.3	1530.2	919.0	629.8	527.2	485.2	457.2	457.2	461.9	457.2
45°	5038.4	3442.9	1492.9	905.0	615.8	508.5	466.5	443.2	438.5	443.2	443.2
47.5°	5309.0	3526.9	1455.5	849.1	611.1	489.8	452.5	424.5	419.9	424.5	419.9
50°	5565.6	3601.5	1436.9	774.4	601.8	471.2	433.9	405.9	401.2	405.9	401.2
52.5°	5780.2	3634.2	1404.2	723.1	578.5	452.5	415.2	387.2	377.9	382.5	382.5
55°	5952.8	3624.9	1357.6	681.1	536.5	433.9	391.9	368.6	354.6	354.6	349.9
57.5°	6111.4	3629.5	1315.6	639.1	489.8	405.9	373.2	345.2	326.6	321.9	317.2
60°	6172.1	3606.2	1240.9	583.1	443.2	382.5	349.9	317.2	298.6	293.9	289.2
62.5°	6088.1	3522.2	1143.0	485.2	401.2	354.6	326.6	293.9	275.2	270.6	265.9
65°	5850.2	3363.6	993.7	382.5	363.9	321.9	298.6	275.2	251.9	242.6	237.9
67.5°	5444.3	3135.0	807.1	307.9	321.9	293.9	279.9	251.9	223.9	214.6	209.9
70°	4865.8	2831.8	606.5	261.3	284.6	261.3	251.9	223.9	200.6	191.3	186.6
72.5°	4054.1	2341.9	424.5	223.9	247.3	228.6	219.3	200.6	177.3	163.3	163.3
75°	3065.0	1679.5	279.9	191.3	205.3	195.9	181.9	167.9	154.0	144.6	140.0
77.5°	1320.3	653.1	172.6	144.6	167.9	163.3	144.6	135.3	130.6	121.3	121.3
80°	569.2	265.9	107.3	107.3	121.3	116.6	112.0	102.6	102.6	98.0	93.3
82.5°	209.9	107.3	65.3	79.3	88.6	79.3	79.3	79.3	79.3	74.6	74.6
85°	51.3	32.7	32.7	46.7	51.3	46.7	51.3	46.7	46.7	46.7	42.0
87.5°	14.0	14.0	18.7	18.7	18.7	18.7	18.7	14.0	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)