

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: P842011

Luminaire Tested: **ARCH4-260-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-260-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23132 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 259.2
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

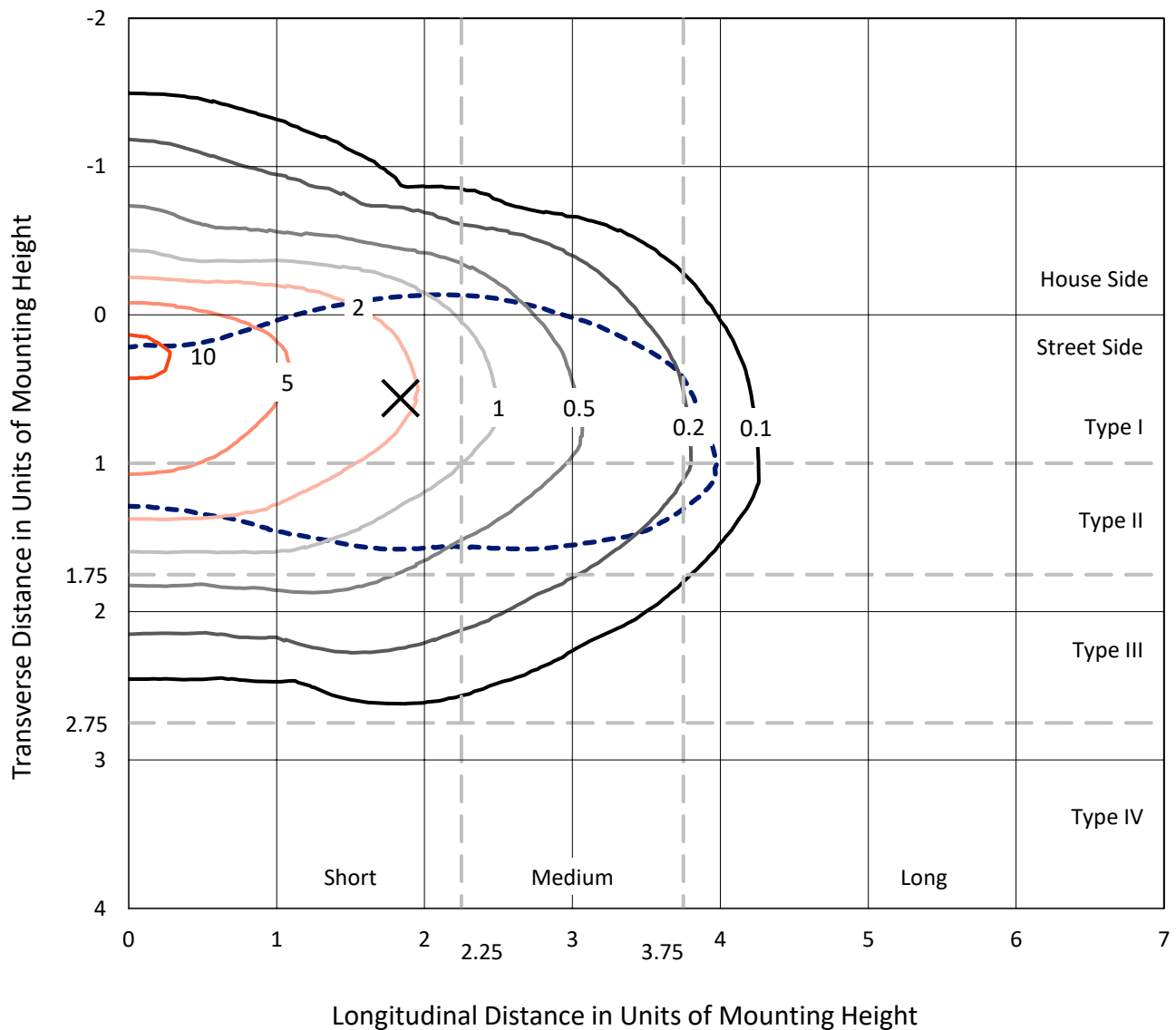


REPORT NUMBER: P842011

CATALOG NUMBER: ARCH4-260-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

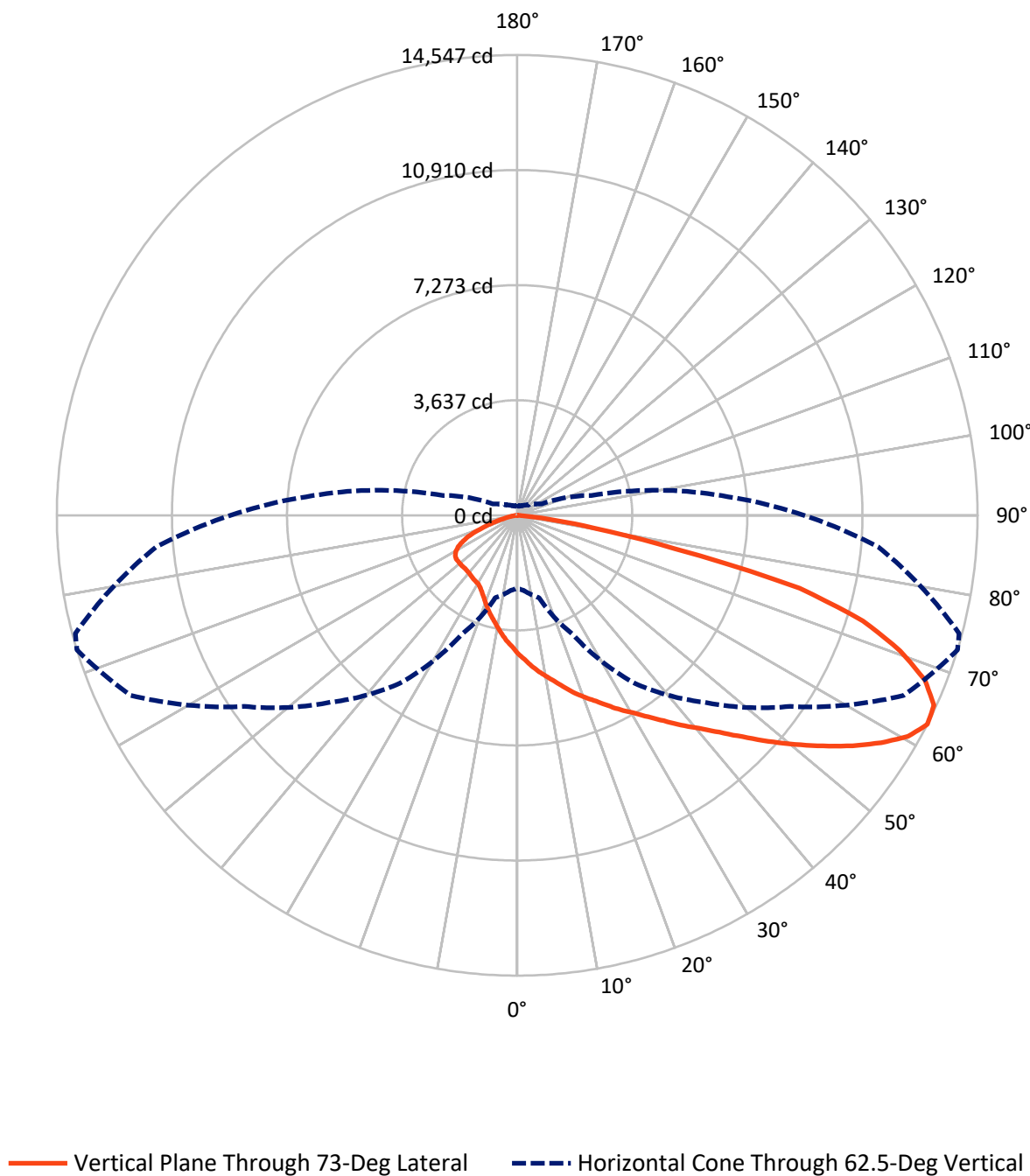
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

REPORT NUMBER: P842011
CATALOG NUMBER: ARCH4-260-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P842011

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3585.8	0.0	3585.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19546.2	0.0	19546.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	23132.0	0.0	23132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.8
10°-20°	1276.9	5.5
20°-30°	2125.3	9.2
30°-40°	3206.8	13.9
40°-50°	4482.3	19.4
50°-60°	4951.0	21.4
60°-70°	4313.0	18.6
70°-80°	2178.7	9.4
80°-90°	174.9	0.8
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°	23132.0	100.0
0°-180°	23132.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842011

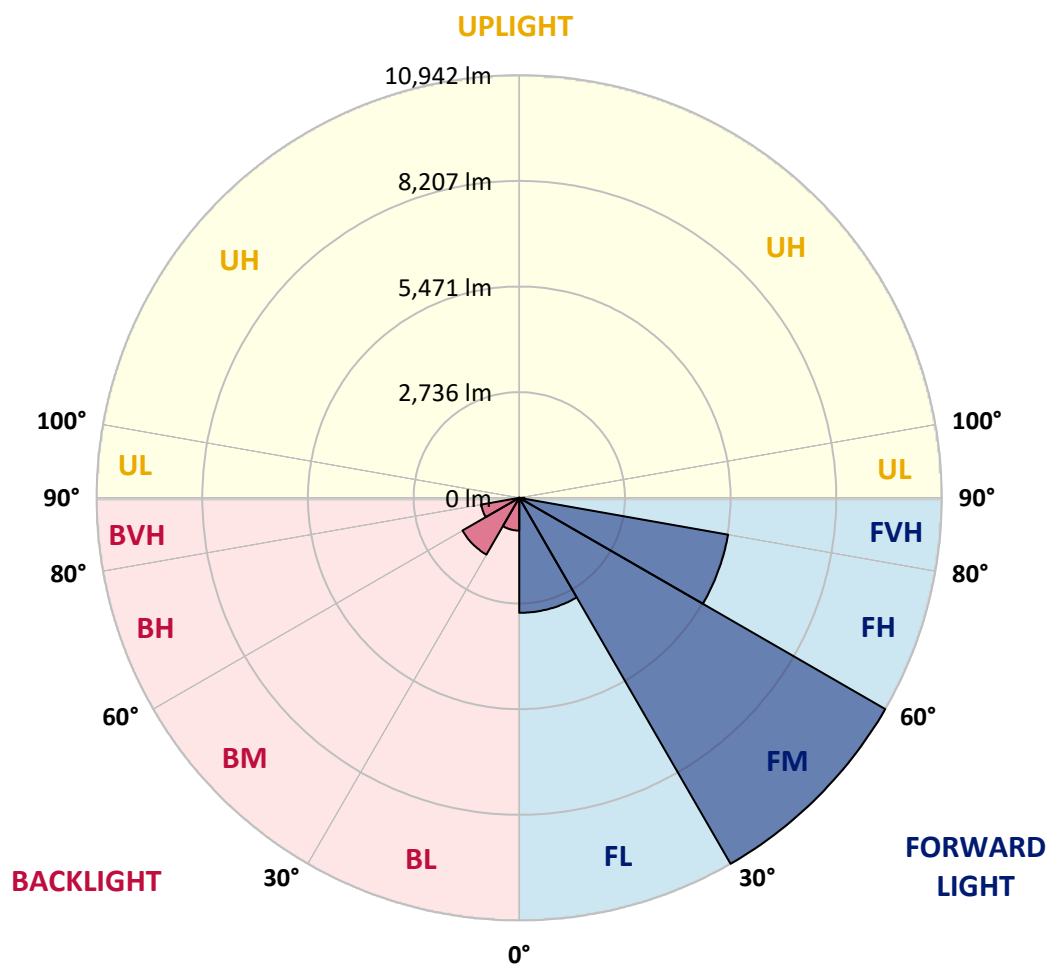
CATALOG NUMBER: ARCH4-260-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2977.8	12.9			
FM	(30°-60°)	10942.3	47.3			
FH	(60°-80°)	5490.8	23.7			G3/7500
FVH	(80°-90°)	135.3	0.6			G2/225
BL	(0°-30°)	847.5	3.7	B2/1000		
BM	(30°-60°)	1697.9	7.3	B2/2500		
BH	(60°-80°)	1000.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	39.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P842011

CATALOG NUMBER: ARCH4-260-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1
2.5°	4984.9	5040.4	5010.1	5030.3	4929.5	4864.0	4788.4	4642.2	4561.5	4551.5	4455.7
5°	5715.8	5776.3	5725.9	5710.8	5534.3	5383.1	5211.8	4954.7	4783.3	4753.1	4541.4
7.5°	6446.7	6502.1	6441.6	6396.2	6159.3	5892.2	5640.2	5262.2	4995.0	4944.6	4612.0
10°	6960.8	7011.2	6965.8	6920.4	6673.5	6401.3	6043.4	5549.5	5186.6	5105.9	4657.3
12.5°	7348.9	7379.1	7359.0	7318.6	7086.8	6794.4	6451.7	5872.0	5403.3	5302.5	4727.9
15°	7666.4	7716.8	7691.6	7661.4	7439.6	7147.3	6819.6	6209.8	5655.3	5529.3	4833.7
17.5°	7878.1	7913.4	7918.4	7918.4	7721.9	7434.6	7117.0	6517.2	5907.3	5746.0	4934.5
20°	7973.9	8014.2	8039.4	8079.7	7918.4	7671.5	7348.9	6779.3	6144.2	5962.8	5030.3
22.5°	8019.3	8054.5	8120.1	8210.8	8079.7	7873.1	7575.7	7021.3	6381.1	6189.6	5141.2
25°	8054.5	8099.9	8195.7	8367.0	8276.3	8099.9	7842.8	7298.5	6663.4	6466.8	5302.5
27.5°	8150.3	8205.7	8296.5	8503.1	8392.2	8306.6	8125.1	7595.9	6960.8	6759.2	5499.1
30°	8483.0	8528.3	8523.3	8654.3	8518.2	8493.0	8367.0	7883.2	7248.1	7046.5	5730.9
32.5°	9087.8	9133.2	9022.3	8971.9	8674.5	8679.5	8629.1	8190.6	7590.8	7384.2	5998.1
35°	9738.0	9788.4	9642.3	9556.6	9057.6	8911.4	8936.6	8573.7	7973.9	7767.2	6330.7
37.5°	10317.7	10378.1	10252.1	10126.1	9622.1	9284.4	9279.3	9002.1	8412.4	8200.7	6698.7
40°	10635.2	10705.8	10781.4	10710.8	10181.6	9808.6	9647.3	9440.6	8845.9	8629.1	7096.9
42.5°	10786.4	10983.0	11119.1	11073.7	10640.2	10262.2	10070.7	9899.3	9375.1	9163.4	7570.7
45°	10363.0	10368.1	10655.4	10902.3	10821.7	10569.7	10534.4	10413.4	9980.0	9778.3	8104.9
47.5°	9833.8	9793.5	9995.1	10433.6	10660.4	10725.9	10932.6	10983.0	10670.5	10468.9	8649.3
50°	8563.6	8588.8	9244.1	9874.1	10317.7	10741.1	11214.9	11567.7	11381.2	11189.7	9223.9
52.5°	6965.8	7026.3	7777.3	9163.4	9864.0	10589.8	11381.2	12152.4	12107.0	11925.5	9798.5
55°	5584.7	5680.5	6476.9	7978.9	9284.4	10252.1	11451.8	12686.6	12858.0	12691.7	10363.0
57.5°	4269.2	4370.0	5040.4	6582.7	8543.4	9702.7	11401.3	13155.4	13558.6	13452.8	10882.2
60°	3215.8	3316.6	3745.0	5337.8	7616.0	9087.8	11149.3	13462.9	14188.7	14077.8	11260.2
62.5°	2303.5	2384.1	2701.6	4153.3	6487.0	8357.0	10529.4	13467.9	14546.5	14455.8	11441.7
65°	1658.3	1658.3	1915.3	2963.7	5428.5	7479.9	9591.8	12847.9	14470.9	14445.7	11315.7
67.5°	1194.6	1204.7	1411.3	2071.6	4329.7	6416.4	8377.1	11744.1	13886.3	14012.3	10862.0
70°	846.8	872.0	967.8	1446.6	3271.2	5065.6	7076.7	10297.5	12832.8	13054.6	9985.0
72.5°	655.2	670.4	735.9	1008.1	2389.1	3765.2	5640.2	8684.6	11426.5	11678.6	8790.4
75°	504.0	519.2	569.6	740.9	1713.7	2641.2	4007.1	6739.0	9213.8	9662.4	7061.6
77.5°	367.9	388.1	423.4	539.3	998.0	1678.4	2429.5	3790.4	5085.7	5297.4	3699.6
80°	171.4	196.6	247.0	347.8	539.3	791.3	861.9	1461.7	2444.6	2555.5	2006.1
82.5°	95.8	121.0	141.1	211.7	272.2	282.3	292.3	367.9	922.4	1018.2	841.7
85°	45.4	60.5	65.5	90.7	90.7	80.6	95.8	70.6	151.2	181.5	176.4
87.5°	0.0	5.0	10.1	25.2	20.2	15.1	15.1	15.1	15.1	20.2	15.1
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: P842011

CATALOG NUMBER: ARCH4-260-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1	4380.1
2.5°	4410.3	4344.8	4193.6	4062.5	3976.9	3901.3	3800.4	3755.1	3674.4	3689.6	3644.2
5°	4435.5	4314.6	4047.4	3800.4	3619.0	3457.7	3281.3	3180.5	3069.6	3059.5	3024.2
7.5°	4450.7	4264.2	3881.1	3533.3	3256.1	3009.1	2772.2	2641.2	2505.1	2474.8	2444.6
10°	4435.5	4188.6	3709.7	3256.1	2888.1	2580.7	2313.5	2147.2	2006.1	1970.8	1940.5
12.5°	4450.7	4148.2	3548.4	2999.0	2560.5	2212.7	1910.3	1738.9	1607.9	1572.6	1552.4
15°	4485.9	4123.0	3412.3	2767.2	2268.2	1880.1	1582.7	1436.5	1330.7	1295.4	1285.3
17.5°	4516.2	4097.8	3266.2	2540.4	1975.8	1587.7	1330.7	1209.7	1119.0	1083.7	1073.6
20°	4556.5	4062.5	3120.0	2323.6	1718.8	1355.9	1129.0	1023.2	952.6	927.4	922.4
22.5°	4591.8	4037.3	2983.9	2106.9	1481.9	1169.4	977.8	892.1	841.7	816.5	816.5
25°	4682.5	4047.4	2868.0	1905.3	1305.5	1023.2	861.9	796.4	756.1	740.9	740.9
27.5°	4788.4	4087.8	2777.3	1733.9	1154.2	912.3	781.3	725.8	705.7	685.5	690.5
30°	4939.6	4168.4	2716.8	1592.8	1043.4	826.6	715.7	675.4	655.2	650.2	650.2
32.5°	5131.1	4299.4	2711.7	1502.0	962.7	761.1	670.4	635.1	625.0	620.0	620.0
35°	5357.9	4415.4	2681.5	1461.7	912.3	715.7	635.1	609.9	604.8	604.8	604.8
37.5°	5630.1	4606.9	2661.3	1406.3	887.1	690.5	609.9	589.7	589.7	589.7	589.7
40°	5912.4	4763.2	2631.1	1355.9	877.0	675.4	594.8	569.6	569.6	569.6	569.6
42.5°	6250.1	4990.0	2621.0	1330.7	861.9	665.3	574.6	544.4	549.4	549.4	554.4
45°	6658.3	5247.0	2616.0	1305.5	856.9	655.2	554.4	519.2	524.2	519.2	519.2
47.5°	7071.7	5544.4	2631.1	1290.3	851.8	645.2	539.3	494.0	494.0	488.9	488.9
50°	7505.1	5816.6	2641.2	1275.2	841.7	625.0	514.1	473.8	463.7	453.6	458.7
52.5°	7913.4	6068.6	2646.2	1250.0	811.5	594.8	494.0	448.6	433.5	418.4	423.4
55°	8321.7	6310.6	2656.3	1219.8	771.2	564.5	468.8	423.4	403.2	383.1	383.1
57.5°	8689.6	6522.3	2631.1	1144.2	725.8	534.3	443.6	393.1	362.9	342.7	342.7
60°	8941.6	6673.5	2555.5	1033.3	665.3	499.0	418.4	362.9	327.6	312.5	312.5
62.5°	9062.6	6698.7	2419.4	851.8	589.7	463.7	388.1	332.7	302.4	292.3	292.3
65°	8946.7	6587.8	2207.7	640.1	509.1	423.4	357.9	307.5	277.2	252.0	252.0
67.5°	8543.4	6275.3	1915.3	483.9	433.5	383.1	327.6	282.3	247.0	226.8	226.8
70°	7731.9	5625.1	1481.9	388.1	367.9	332.7	297.4	252.0	221.8	196.6	196.6
72.5°	6668.4	4768.2	1043.4	312.5	312.5	282.3	252.0	221.8	191.5	171.4	171.4
75°	5116.0	3528.3	700.6	252.0	257.1	236.9	206.7	181.5	161.3	146.2	146.2
77.5°	2792.4	1744.0	428.4	186.5	191.5	181.5	161.3	146.2	136.1	121.0	121.0
80°	1355.9	766.1	247.0	131.0	136.1	131.0	121.0	105.8	105.8	95.8	95.8
82.5°	569.6	287.3	131.0	90.7	90.7	80.6	75.6	75.6	75.6	70.6	70.6
85°	141.1	55.4	55.4	50.4	50.4	50.4	45.4	45.4	45.4	35.3	40.3
87.5°	20.2	20.2	20.2	20.2	20.2	20.2	15.1	5.0	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)