

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: P841876

Luminaire Tested: **ARCH4-240-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841876
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: ARCH4-240-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 940mA 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: 24111 lumens
Efficiency: N/A
Efficacy: 100.4 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): 240.2
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



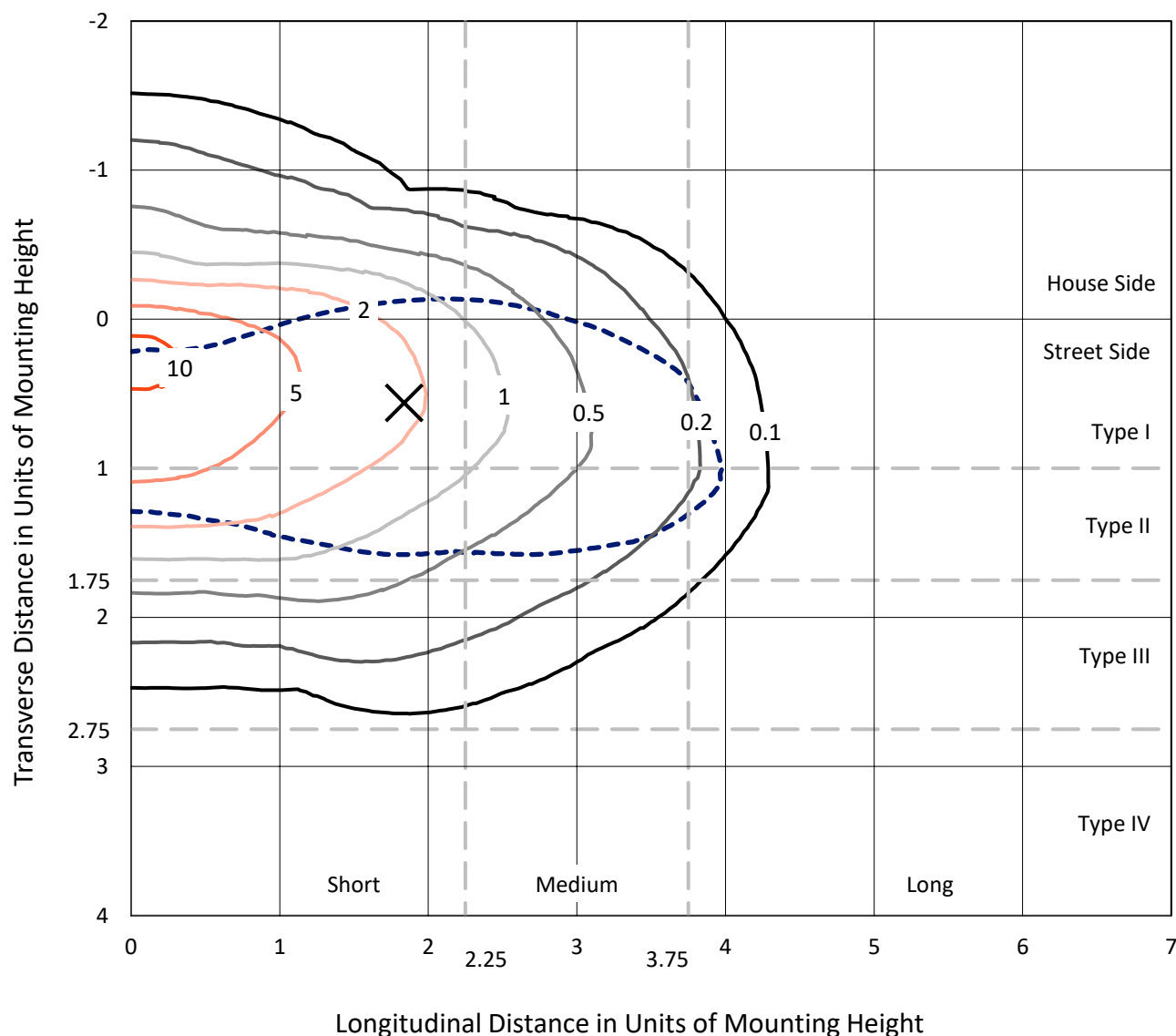
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

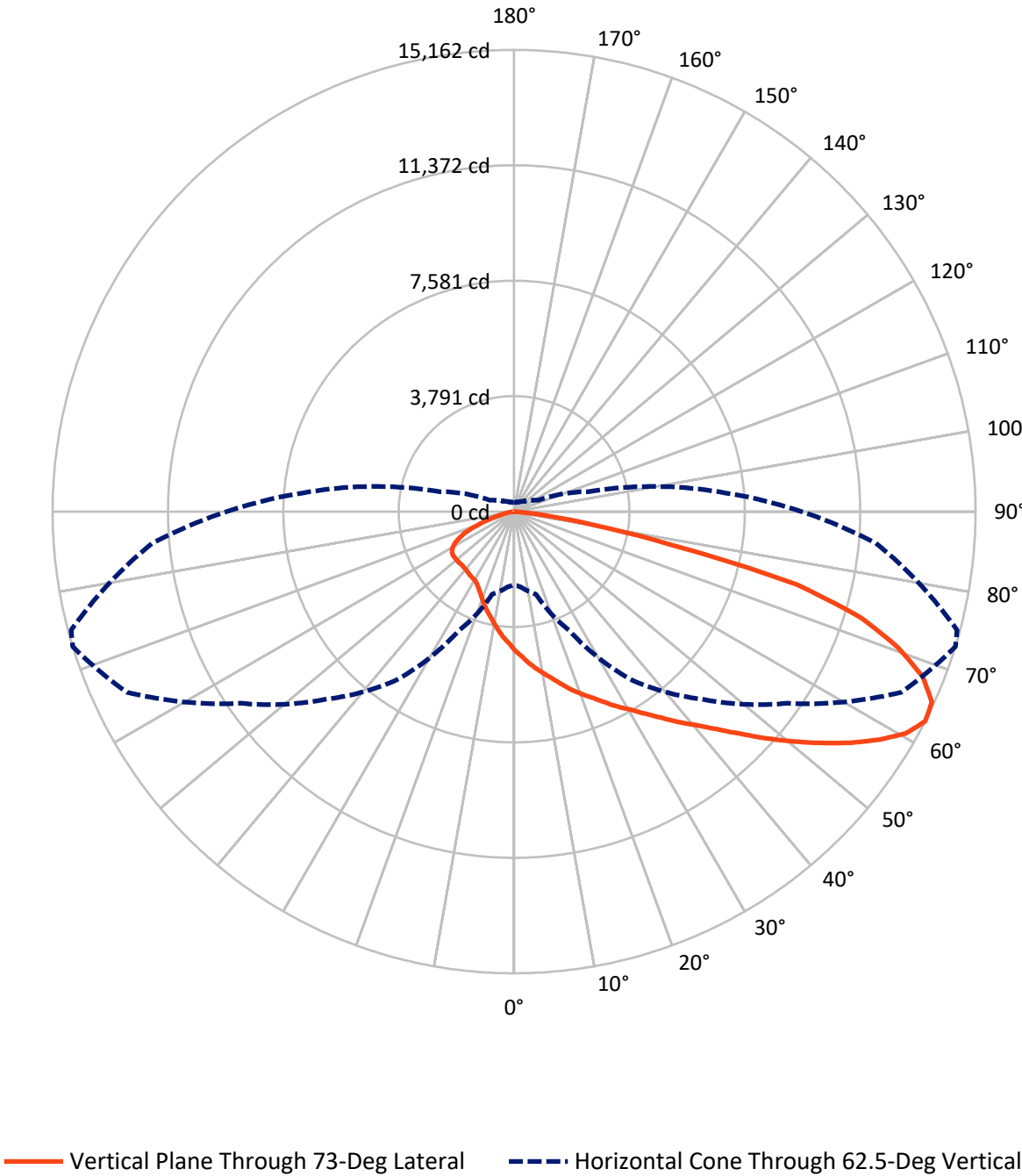


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3737.6	0.0	3737.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20373.4	0.0	20373.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	24111.0	0.0	24111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.0	1.8
10°-20°	1330.9	5.5
20°-30°	2215.3	9.2
30°-40°	3342.6	13.9
40°-50°	4672.0	19.4
50°-60°	5160.5	21.4
60°-70°	4495.5	18.6
70°-80°	2270.9	9.4
80°-90°	182.3	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°	24111.0	100.0
0°-180°	24111.0	100.0

Coefficient of Utilization



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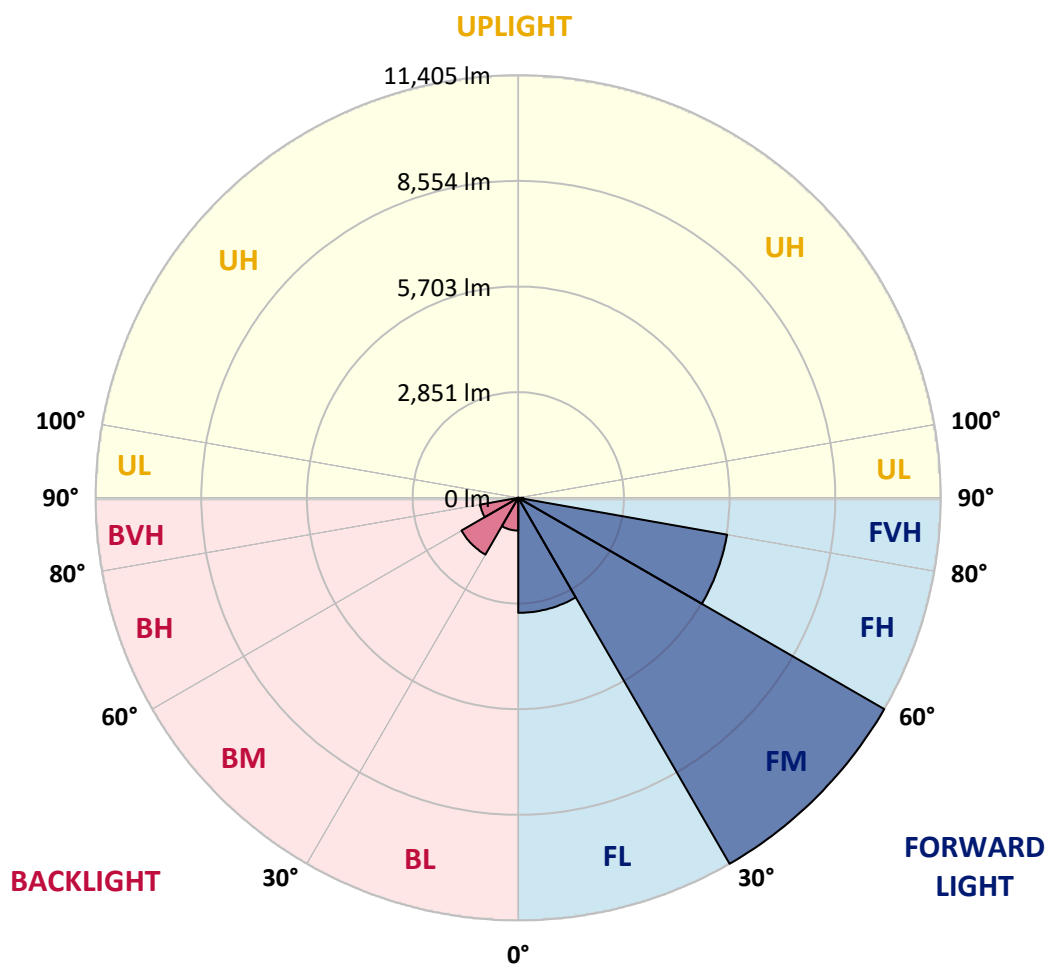
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3103.8	12.9			
FM	(30°-60°)	11405.4	47.3			
FH	(60°-80°)	5723.2	23.7			G3/7500
FVH	(80°-90°)	141.1	0.6			G2/225
BL	(0°-30°)	883.4	3.7	B2/1000		
BM	(30°-60°)	1769.7	7.3	B2/2500		
BH	(60°-80°)	1043.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	41.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5
2.5°	5195.9	5253.7	5222.2	5243.2	5138.1	5069.8	4991.0	4838.7	4754.6	4744.1	4644.3
5°	5957.7	6020.7	5968.2	5952.4	5768.6	5611.0	5432.3	5164.4	4985.8	4954.2	4733.6
7.5°	6719.5	6777.3	6714.2	6667.0	6420.0	6141.6	5878.9	5484.9	5206.4	5153.9	4807.1
10°	7255.4	7307.9	7260.6	7213.3	6955.9	6672.2	6299.2	5784.3	5406.1	5322.0	4854.4
12.5°	7659.9	7691.4	7670.4	7628.4	7386.7	7082.0	6724.7	6120.6	5632.0	5526.9	4928.0
15°	7990.9	8043.4	8017.2	7985.6	7754.5	7449.8	7108.3	6472.6	5894.7	5763.3	5038.3
17.5°	8211.5	8248.3	8253.6	8253.6	8048.7	7749.2	7418.2	6793.0	6157.3	5989.2	5143.4
20°	8311.4	8353.4	8379.7	8421.7	8253.6	7996.1	7659.9	7066.2	6404.3	6215.1	5243.2
22.5°	8358.6	8395.4	8463.7	8558.3	8421.7	8206.3	7896.3	7318.4	6651.2	6451.5	5358.8
25°	8395.4	8442.7	8542.5	8721.1	8626.6	8442.7	8174.8	7607.4	6945.4	6740.5	5526.9
27.5°	8495.2	8553.0	8647.6	8863.0	8747.4	8658.1	8469.0	7917.3	7255.4	7045.2	5731.8
30°	8842.0	8889.3	8884.0	9020.6	8878.8	8852.5	8721.1	8216.8	7554.8	7344.7	5973.5
32.5°	9472.4	9519.7	9404.1	9351.6	9041.6	9046.9	8994.3	8537.3	7912.1	7696.7	6251.9
35°	10150.2	10202.7	10050.3	9961.0	9440.9	9288.5	9314.8	8936.6	8311.4	8096.0	6598.7
37.5°	10754.3	10817.4	10686.0	10554.7	10029.3	9677.3	9672.1	9383.1	8768.4	8547.8	6982.2
40°	11085.3	11158.9	11237.7	11164.1	10612.5	10223.7	10055.6	9840.2	9220.3	8994.3	7397.2
42.5°	11242.9	11447.8	11589.7	11542.4	11090.6	10696.5	10496.9	10318.3	9771.9	9551.2	7891.1
45°	10801.6	10806.9	11106.3	11363.8	11279.7	11017.0	10980.2	10854.2	10402.3	10192.2	8448.0
47.5°	10250.0	10207.9	10418.1	10875.2	11111.6	11179.9	11395.3	11447.8	11122.1	10911.9	9015.4
50°	8926.0	8952.3	9635.3	10292.0	10754.3	11195.6	11689.5	12057.3	11862.9	11663.2	9614.3
52.5°	7260.6	7323.7	8106.5	9551.2	10281.5	11038.0	11862.9	12666.7	12619.4	12430.3	10213.2
55°	5821.1	5920.9	6751.0	8316.6	9677.3	10686.0	11936.4	13223.6	13402.2	13228.8	10801.6
57.5°	4449.9	4555.0	5253.7	6861.3	8905.0	10113.4	11883.9	13712.2	14132.5	14022.1	11342.7
60°	3351.9	3456.9	3903.5	5563.7	7938.3	9472.4	11621.2	14032.6	14789.2	14673.6	11736.8
62.5°	2400.9	2485.0	2816.0	4329.1	6761.5	8710.6	10975.0	14037.9	15162.2	15067.6	11925.9
65°	1728.5	1728.5	1996.4	3089.2	5658.2	7796.5	9997.8	13391.7	15083.4	15057.1	11794.6
67.5°	1245.1	1255.6	1471.0	2159.3	4512.9	6688.0	8731.7	12241.1	14474.0	14605.3	11321.7
70°	882.6	908.9	1008.7	1507.8	3409.7	5280.0	7376.2	10733.3	13375.9	13607.1	10407.6
72.5°	683.0	698.7	767.0	1050.7	2490.3	3924.5	5878.9	9052.1	11910.1	12172.8	9162.5
75°	525.4	541.1	593.7	772.3	1786.3	2752.9	4176.7	7024.2	9603.8	10071.4	7360.4
77.5°	383.5	404.5	441.3	562.1	1040.2	1749.5	2532.3	3950.8	5301.0	5521.6	3856.2
80°	178.6	204.9	257.4	362.5	562.1	824.8	898.4	1523.6	2548.0	2663.6	2091.0
82.5°	99.8	126.1	147.1	220.7	283.7	294.2	304.7	383.5	961.4	1061.2	877.4
85°	47.3	63.0	68.3	94.6	94.6	84.1	99.8	73.6	157.6	189.1	183.9
87.5°	0.0	5.3	10.5	26.3	21.0	15.8	15.8	15.8	15.8	21.0	15.8
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°	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5	4565.5
2.5°	4597.0	4528.7	4371.1	4234.5	4145.2	4066.4	3961.3	3914.0	3830.0	3845.7	3798.4
5°	4623.3	4497.2	4218.7	3961.3	3772.2	3604.0	3420.2	3315.1	3199.5	3189.0	3152.2
7.5°	4639.0	4444.6	4045.4	3682.8	3393.9	3136.5	2889.5	2752.9	2611.1	2579.6	2548.0
10°	4623.3	4365.8	3866.7	3393.9	3010.4	2689.9	2411.5	2238.1	2091.0	2054.2	2022.7
12.5°	4639.0	4323.8	3698.6	3126.0	2668.9	2306.4	1991.2	1812.5	1675.9	1639.2	1618.1
15°	4675.8	4297.5	3556.8	2884.3	2364.2	1959.6	1649.7	1497.3	1387.0	1350.2	1339.7
17.5°	4707.3	4271.3	3404.4	2647.9	2059.5	1654.9	1387.0	1260.9	1166.3	1129.5	1119.0
20°	4749.3	4234.5	3252.0	2422.0	1791.5	1413.2	1176.8	1066.5	993.0	966.7	961.4
22.5°	4786.1	4208.2	3110.2	2196.0	1544.6	1218.9	1019.2	929.9	877.4	851.1	851.1
25°	4880.7	4218.7	2989.4	1985.9	1360.7	1066.5	898.4	830.1	788.1	772.3	772.3
27.5°	4991.0	4260.8	2894.8	1807.3	1203.1	950.9	814.3	756.5	735.5	714.5	719.8
30°	5148.6	4344.8	2831.7	1660.2	1087.5	861.6	746.0	704.0	683.0	677.7	677.7
32.5°	5348.3	4481.4	2826.5	1565.6	1003.5	793.3	698.7	662.0	651.5	646.2	646.2
35°	5584.7	4602.2	2795.0	1523.6	950.9	746.0	662.0	635.7	630.4	630.4	630.4
37.5°	5868.4	4801.9	2774.0	1465.8	924.7	719.8	635.7	614.7	614.7	614.7	614.7
40°	6162.6	4964.8	2742.4	1413.2	914.1	704.0	619.9	593.7	593.7	593.7	593.7
42.5°	6514.6	5201.2	2731.9	1387.0	898.4	693.5	598.9	567.4	572.7	572.7	577.9
45°	6940.1	5469.1	2726.7	1360.7	893.1	683.0	577.9	541.1	546.4	541.1	541.1
47.5°	7370.9	5779.1	2742.4	1344.9	887.9	672.5	562.1	514.9	514.9	509.6	509.6
50°	7822.8	6062.8	2752.9	1329.2	877.4	651.5	535.9	493.8	483.3	472.8	478.1
52.5°	8248.3	6325.5	2758.2	1302.9	845.8	619.9	514.9	467.6	451.8	436.1	441.3
55°	8673.9	6577.6	2768.7	1271.4	803.8	588.4	488.6	441.3	420.3	399.3	399.3
57.5°	9057.4	6798.3	2742.4	1192.6	756.5	556.9	462.3	409.8	378.3	357.3	357.3
60°	9320.1	6955.9	2663.6	1077.0	693.5	520.1	436.1	378.3	341.5	325.7	325.7
62.5°	9446.2	6982.2	2521.8	887.9	614.7	483.3	404.5	346.7	315.2	304.7	304.7
65°	9325.3	6866.6	2301.1	667.2	530.6	441.3	373.0	320.5	289.0	262.7	262.7
67.5°	8905.0	6540.9	1996.4	504.4	451.8	399.3	341.5	294.2	257.4	236.4	236.4
70°	8059.2	5863.1	1544.6	404.5	383.5	346.7	310.0	262.7	231.2	204.9	204.9
72.5°	6950.7	4970.0	1087.5	325.7	325.7	294.2	262.7	231.2	199.6	178.6	178.6
75°	5332.5	3677.6	730.3	262.7	267.9	246.9	215.4	189.1	168.1	152.4	152.4
77.5°	2910.6	1817.8	446.6	194.4	199.6	189.1	168.1	152.4	141.9	126.1	126.1
80°	1413.2	798.6	257.4	136.6	141.9	136.6	126.1	110.3	110.3	99.8	99.8
82.5°	593.7	299.5	136.6	94.6	94.6	84.1	78.8	78.8	78.8	73.6	73.6
85°	147.1	57.8	57.8	52.5	52.5	52.5	47.3	47.3	47.3	36.8	42.0
87.5°	21.0	21.0	21.0	21.0	21.0	21.0	15.8	5.3	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)