

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: P1211135

Luminaire Tested: **ARCH4-180-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27600 lumens
Efficiency: N/A
Efficacy: 153.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 180
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

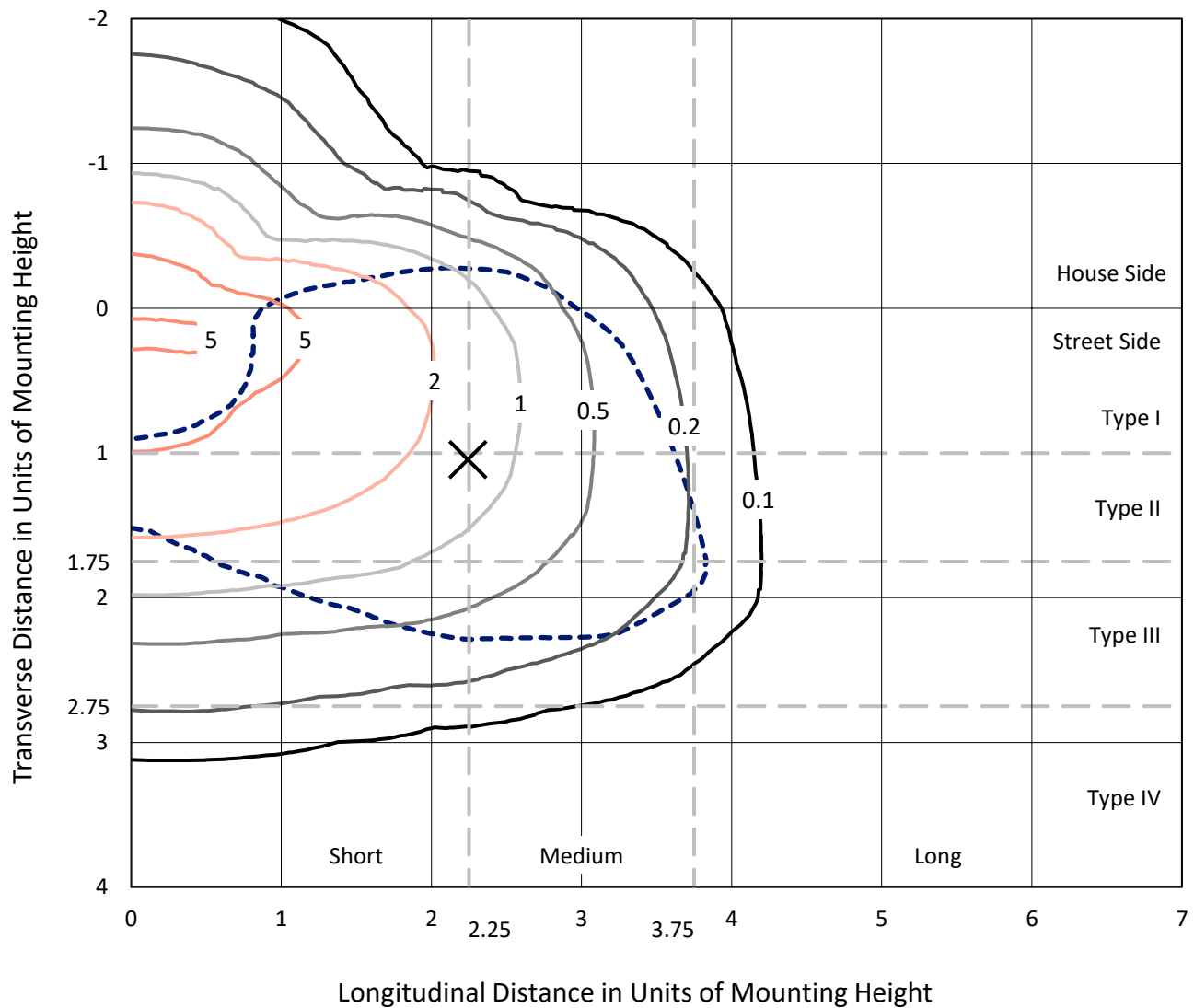


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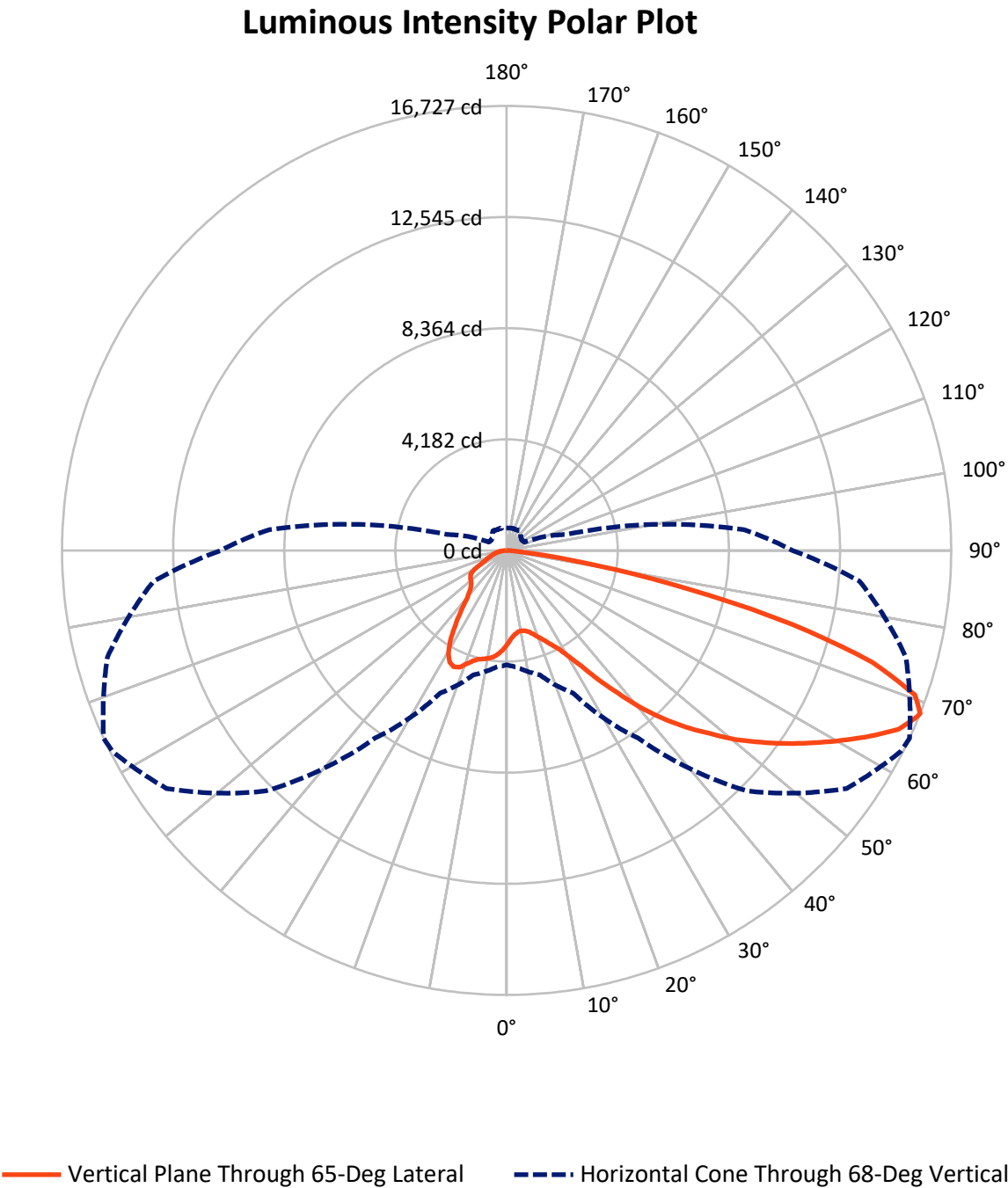
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6766.7	0.0	6766.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	20833.3	0.0	20833.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	27600.0	0.0	27600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.1	1.2
10°-20°	1097.5	4.0
20°-30°	1986.4	7.2
30°-40°	3124.8	11.3
40°-50°	4654.0	16.9
50°-60°	6105.1	22.1
60°-70°	6676.3	24.2
70°-80°	3303.6	12.0
80°-90°	315.1	1.1
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°	27600.0	100.0
0°-180°	27600.0	100.0

Coefficient of Utilization



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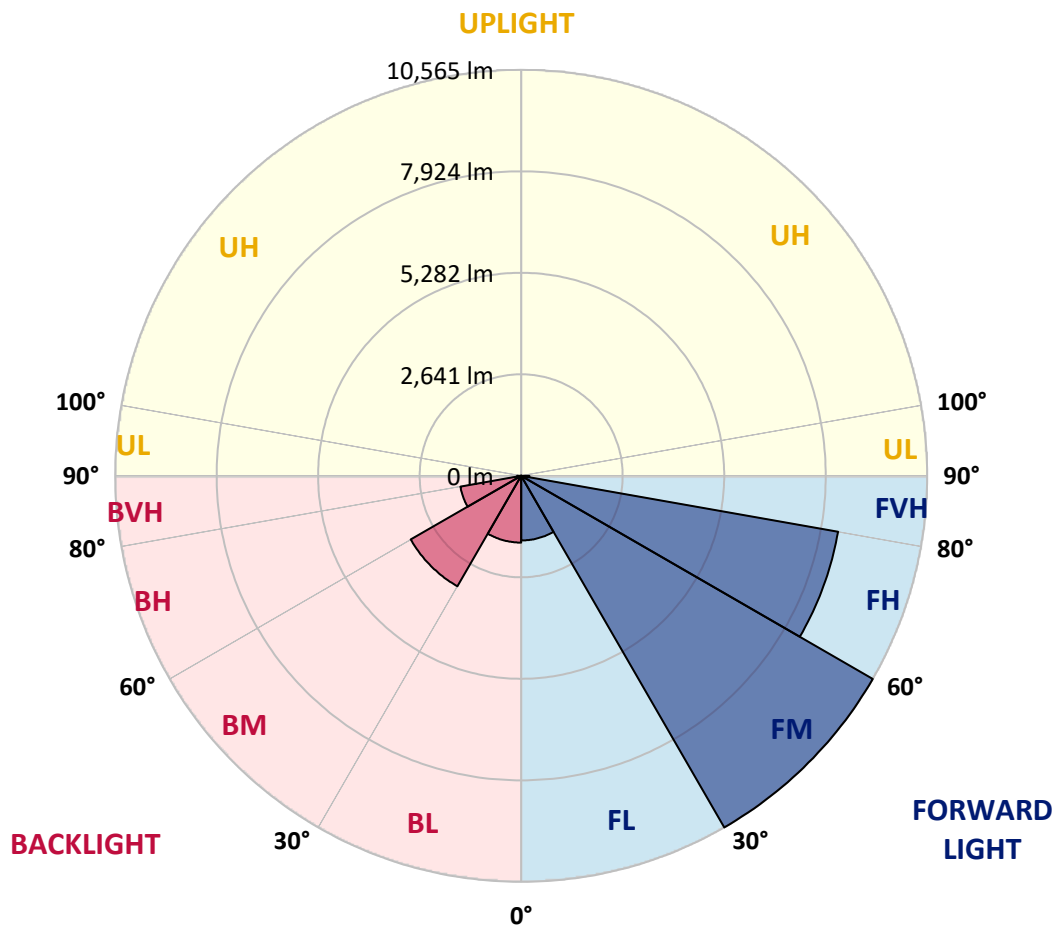
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1682.5	6.1			
FM	(30°-60°)	10564.9	38.3			
FH	(60°-80°)	8373.9	30.3			G4/12000
FVH	(80°-90°)	211.9	0.8			G2/225
BL	(0°-30°)	1738.4	6.3	B3/2500		
BM	(30°-60°)	3319.0	12.0	B3/5000		
BH	(60°-80°)	1606.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	103.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9
2.5°	3078.5	3071.4	3089.2	3107.0	3146.1	3192.4	3256.5	3309.8	3317.0	3416.6	3494.9
5°	2897.0	2886.3	2904.1	2925.5	2943.3	3000.2	3067.8	3146.1	3178.2	3324.1	3491.4
7.5°	2914.8	2911.2	2918.4	2911.2	2911.2	2936.2	2982.4	3060.7	3096.3	3270.7	3509.1
10°	3018.0	3025.1	3028.7	3007.3	2986.0	2975.3	2989.5	3042.9	3067.8	3274.3	3587.4
12.5°	3188.8	3199.5	3203.1	3163.9	3135.5	3089.2	3064.3	3085.6	3103.4	3309.8	3697.8
15°	3420.2	3427.3	3402.4	3377.5	3306.3	3249.3	3188.8	3171.0	3178.2	3384.6	3822.3
17.5°	3690.7	3680.0	3680.0	3619.5	3526.9	3438.0	3338.3	3324.1	3324.1	3505.6	4000.3
20°	3986.1	3996.7	3964.7	3882.8	3790.3	3651.5	3551.9	3487.8	3494.9	3644.4	4217.4
22.5°	4413.1	4430.9	4345.5	4228.1	4085.7	3925.5	3783.2	3680.0	3683.5	3825.9	4441.6
25°	4872.2	4879.4	4826.0	4669.4	4477.2	4249.4	4060.8	3929.1	3925.5	4028.8	4729.9
27.5°	5342.0	5374.1	5267.3	5117.8	4939.9	4655.1	4406.0	4228.1	4199.6	4338.4	5089.3
30°	5826.0	5865.2	5762.0	5616.1	5395.4	5153.4	4858.0	4651.6	4633.8	4818.9	5569.8
32.5°	6313.6	6324.3	6242.4	6121.4	5922.1	5694.4	5455.9	5228.1	5210.3	5512.9	6192.6
35°	6712.2	6744.3	6687.3	6658.8	6512.9	6302.9	6071.6	5939.9	5986.2	6374.1	7000.5
37.5°	7192.7	7224.7	7160.7	7153.5	7107.3	6925.8	6765.6	6776.3	6822.6	7349.3	7851.1
40°	7886.7	7922.3	7758.6	7687.4	7687.4	7509.4	7456.1	7708.7	7769.2	8310.2	8737.3
42.5°	8473.9	8530.9	8434.8	8388.5	8249.7	8125.1	8189.2	8545.1	8648.3	9228.4	9509.6
45°	8758.6	8801.3	8915.2	9050.5	8915.2	8698.1	8940.1	9342.3	9488.2	10075.5	10281.9
47.5°	8911.7	8950.8	9082.5	9445.5	9538.1	9356.5	9698.2	10200.0	10299.7	10915.4	11018.6
50°	8933.0	9057.6	9228.4	9591.4	10015.0	10039.9	10459.8	11072.0	11189.4	11741.1	11666.3
52.5°	8758.6	8808.5	9160.8	9772.9	10242.7	10669.8	11289.1	11908.3	11993.7	12516.9	12239.3
55°	8473.9	8545.1	8897.4	9730.2	10463.4	11267.7	12132.5	12730.5	12826.5	13271.4	12769.6
57.5°	8217.7	8253.3	8630.5	9605.7	10684.0	11865.6	12883.5	13588.2	13652.2	13933.4	13161.1
60°	7933.0	7972.1	8349.4	9338.8	10847.8	12317.6	13666.5	14453.0	14509.9	14630.9	13616.6
62.5°	7196.2	7299.5	7772.8	8897.4	10805.0	12833.7	14502.8	15307.2	15378.3	15246.6	13976.1
65°	5843.8	5989.8	6569.9	7897.4	10406.4	13168.2	15186.1	16093.7	16214.7	15709.3	14072.2
67.5°	4537.7	4640.9	5107.1	6267.4	9007.8	13000.9	15627.5	16634.6	16670.2	15634.6	13538.3
68°	4302.8	4406.0	4850.9	5925.7	8619.8	12801.6	15616.8	16648.9	16727.2	15552.7	13331.9
70°	3292.1	3409.5	3833.0	4694.3	6947.1	11534.6	14965.5	16307.2	16296.5	14563.3	12050.7
72.5°	2057.1	2124.7	2416.5	2961.1	4594.6	8776.4	12702.0	14381.8	14410.3	11872.7	9242.7
75°	1306.1	1306.1	1291.9	1434.3	2356.0	5000.4	9442.0	11072.0	11093.3	8313.8	5826.0
77.5°	1135.3	1103.3	950.2	804.3	939.6	1943.2	5587.6	7150.0	7032.5	4477.2	2765.3
80°	957.4	904.0	779.4	647.7	605.0	608.6	2146.1	3630.2	3473.6	1612.2	918.2
82.5°	690.4	644.2	587.2	508.9	466.2	363.0	448.4	1049.9	1025.0	466.2	299.0
85°	373.7	338.1	331.0	334.5	281.2	224.2	188.6	231.3	231.3	202.9	170.8
87.5°	131.7	96.1	113.9	128.1	110.3	92.5	74.7	89.0	92.5	89.0	81.9
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°	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9	3526.9
2.5°	3541.2	3576.8	3662.2	3736.9	3790.3	3836.6	3861.5	3872.2	3897.1	3900.6	3893.5
5°	3569.7	3662.2	3790.3	3900.6	3961.1	3986.1	3993.2	3996.7	3986.1	3993.2	3986.1
7.5°	3644.4	3761.8	3943.3	4039.4	4050.1	4011.0	4014.5	4000.3	4014.5	4028.8	4028.8
10°	3758.3	3907.8	4078.6	4114.2	4067.9	4046.6	4089.3	4174.7	4203.1	4242.3	4242.3
12.5°	3907.8	4085.7	4206.7	4174.7	4132.0	4203.1	4327.7	4413.1	4441.6	4455.8	4445.2
15°	4078.6	4270.8	4331.3	4224.5	4302.8	4455.8	4498.5	4448.7	4377.5	4345.5	4363.3
17.5°	4295.7	4455.8	4420.2	4349.1	4527.0	4548.4	4409.6	4249.4	4135.5	4092.8	4121.3
20°	4523.5	4662.3	4498.5	4530.6	4640.9	4413.1	4149.8	3943.3	3843.7	3825.9	3854.4
22.5°	4765.5	4854.4	4576.8	4740.6	4576.8	4114.2	3797.4	3690.7	3665.7	3694.2	3719.1
25°	5039.5	5028.8	4712.1	4804.6	4338.4	3747.6	3559.0	3551.9	3551.9	3569.7	3605.2
27.5°	5349.1	5181.9	4847.3	4719.2	3925.5	3445.1	3409.5	3413.1	3402.4	3405.9	3423.7
30°	5708.6	5388.3	4996.8	4438.0	3462.9	3217.3	3203.1	3192.4	3167.5	3160.4	3167.5
32.5°	6160.6	5605.4	5149.8	3975.4	3057.2	2982.4	2975.3	2918.4	2857.9	2850.7	2875.7
35°	6733.6	6000.4	5228.1	3395.3	2722.6	2719.1	2694.1	2605.2	2526.9	2526.9	2509.1
37.5°	7388.4	6509.4	5260.2	2829.4	2445.0	2462.8	2391.6	2277.7	2217.2	2181.7	2192.3
40°	8057.5	7089.5	5256.6	2334.7	2203.0	2206.6	2153.2	2014.4	1864.9	1775.9	1797.3
42.5°	8701.7	7616.2	5164.1	2071.3	2007.3	1996.6	1953.9	1765.3	1640.7	1569.5	1573.1
45°	9217.7	8160.7	5021.7	1914.7	1829.3	1847.1	1751.0	1637.1	1523.2	1459.2	1455.6
47.5°	9733.8	8573.6	4793.9	1818.6	1697.6	1665.6	1626.5	1548.2	1462.7	1391.6	1395.1
50°	10203.6	8925.9	4580.4	1754.6	1576.6	1494.8	1501.9	1455.6	1380.9	1316.8	1313.3
52.5°	10534.6	9157.2	4463.0	1719.0	1430.7	1341.7	1366.6	1341.7	1270.6	1224.3	1220.7
55°	10865.6	9335.2	4502.1	1672.7	1270.6	1199.4	1242.1	1235.0	1195.8	1181.6	1185.1
57.5°	11132.5	9470.4	4640.9	1587.3	1117.5	1074.8	1146.0	1124.6	1096.2	1099.7	1099.7
60°	11392.3	9644.8	4804.6	1391.6	985.8	989.4	1057.0	1017.9	1000.1	1032.1	1035.7
62.5°	11662.8	9833.4	4669.4	1106.8	871.9	896.9	975.2	943.1	950.2	996.5	1010.7
65°	11630.7	9815.7	3804.5	907.5	772.3	822.1	939.6	928.9	932.5	950.2	957.4
67.5°	10975.9	9189.3	2615.8	772.3	701.1	761.6	911.1	868.4	871.9	861.3	864.8
68°	10755.2	8968.6	2306.2	750.9	686.9	747.4	896.9	857.7	861.3	850.6	847.0
70°	9552.3	7680.3	1459.2	662.0	637.1	708.2	825.7	811.4	807.9	800.8	800.8
72.5°	7281.7	5669.4	768.7	573.0	580.1	647.7	736.7	765.2	747.4	750.9	772.3
75°	4822.4	3409.5	533.8	491.1	508.9	555.2	654.9	711.8	694.0	704.7	694.0
77.5°	2551.8	1836.4	427.1	416.4	416.4	448.4	541.0	629.9	629.9	622.8	612.1
80°	836.4	647.7	341.7	327.4	334.5	352.3	434.2	516.1	526.7	512.5	505.4
82.5°	281.2	299.0	256.2	238.5	245.6	259.8	327.4	395.0	398.6	370.1	363.0
85°	174.4	199.3	160.2	156.6	156.6	160.2	199.3	217.1	199.3	177.9	185.1
87.5°	81.9	99.7	74.7	64.1	53.4	46.3	35.6	14.2	14.2	7.1	7.1
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)