

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: P841434

Luminaire Tested: **ARCH4-180-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-180-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25050 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

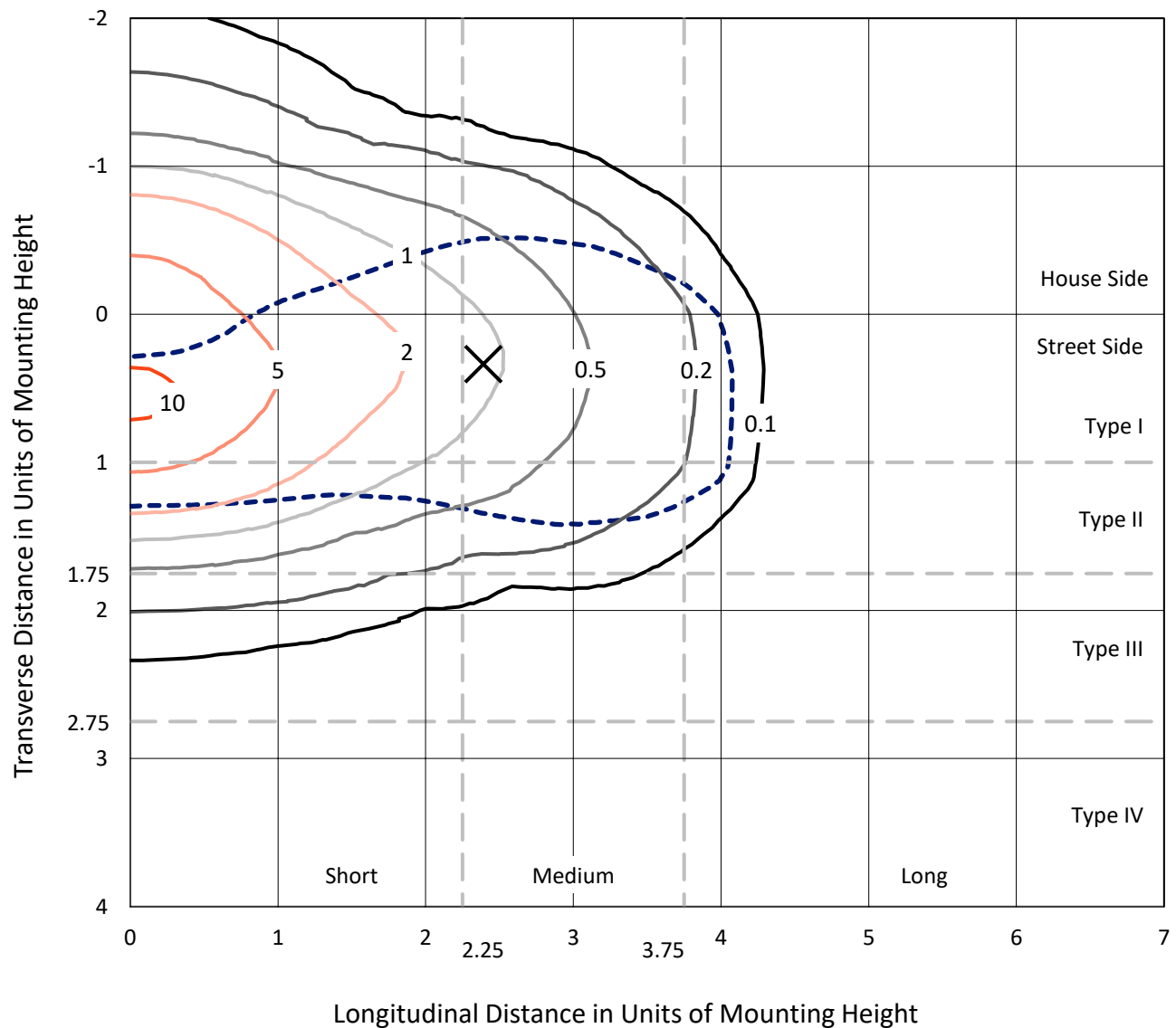
Input Watts (W): 180
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

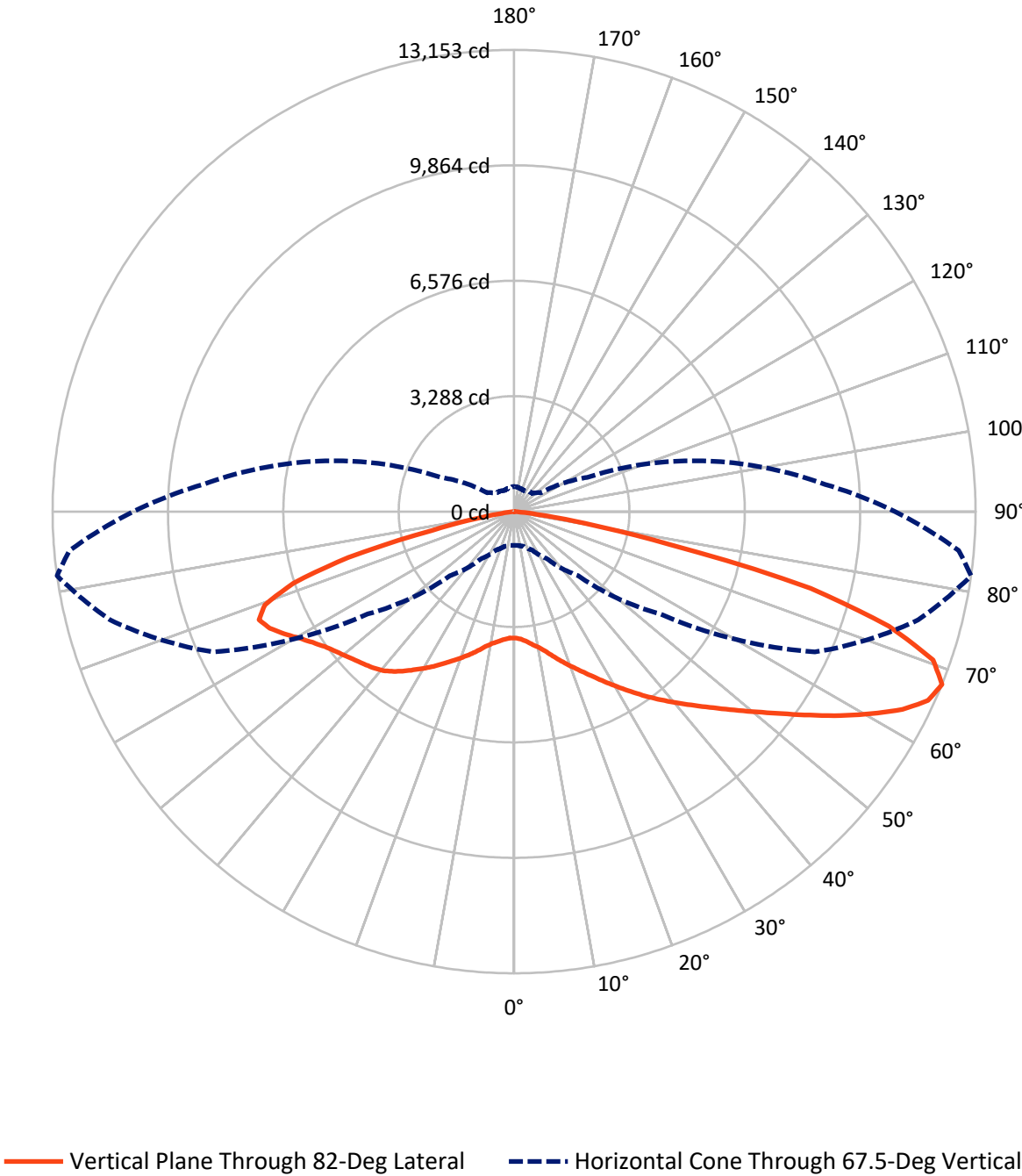
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7628.7	0.0	7628.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	17421.3	0.0	17421.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	25050.0	0.0	25050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	1.5
10°-20°	1340.5	5.4
20°-30°	2694.0	10.8
30°-40°	4231.9	16.9
40°-50°	5155.3	20.6
50°-60°	4871.1	19.4
60°-70°	4022.4	16.1
70°-80°	2190.4	8.7
80°-90°	172.2	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°	25050.0	100.0
0°-180°	25050.0	100.0

Coefficient of Utilization



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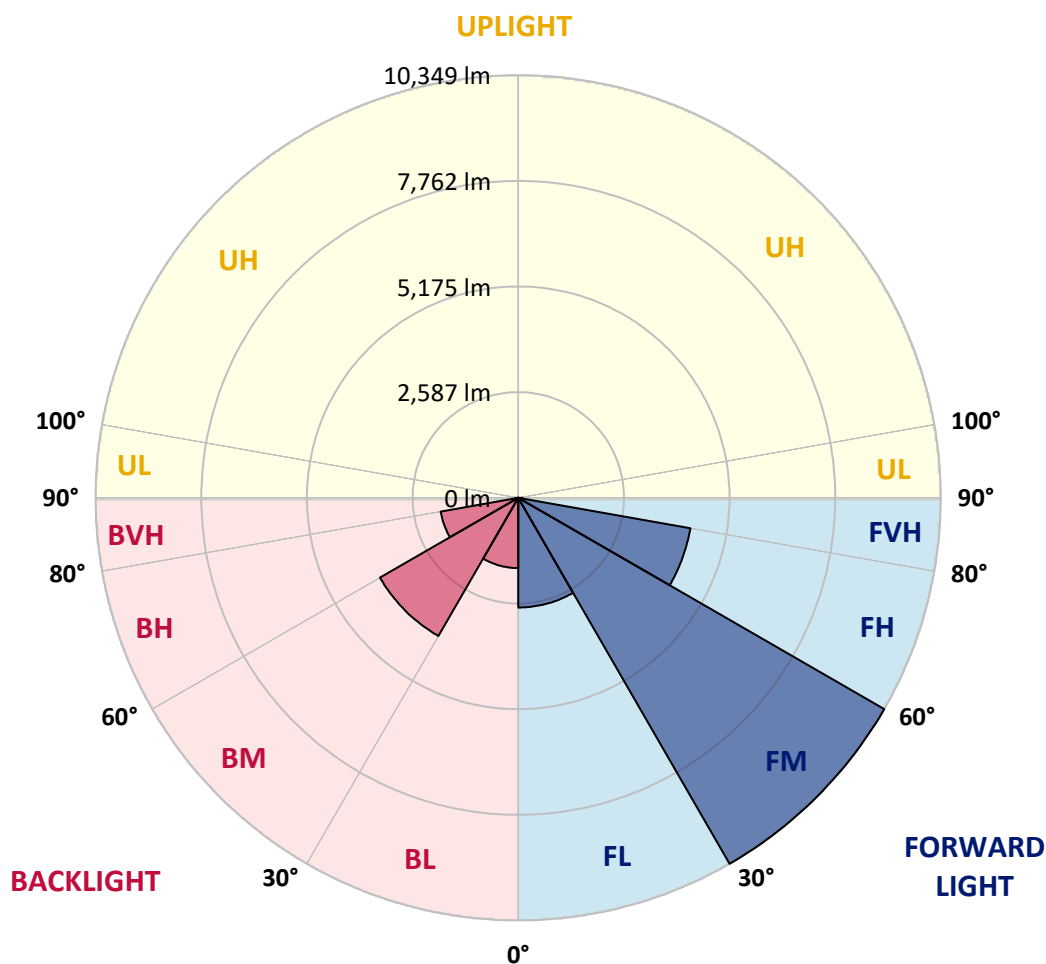
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2686.3	10.7			
FM	(30°-60°)	10349.2	41.3			
FH	(60°-80°)	4282.0	17.1			G2/5000
FVH	(80°-90°)	103.8	0.4			G2/225
BL	(0°-30°)	1720.3	6.9	B3/2500		
BM	(30°-60°)	3909.1	15.6	B3/5000		
BH	(60°-80°)	1930.9	7.7	B3/2500		G3/2500
BVH	(80°-90°)	68.4	0.3			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9
2.5°	3764.6	3764.6	3793.7	3793.7	3768.2	3728.2	3717.3	3673.7	3633.7	3633.7	3637.3
5°	4124.7	4121.1	4142.9	4113.8	4051.9	3971.9	3917.4	3822.8	3742.8	3717.3	3713.7
7.5°	4564.8	4561.2	4572.1	4524.8	4408.4	4277.5	4168.3	4015.6	3884.6	3830.1	3815.5
10°	5055.8	5052.2	5041.3	4961.3	4804.9	4601.2	4437.5	4226.5	4030.1	3942.8	3924.6
12.5°	5619.6	5612.4	5586.9	5470.5	5255.9	4994.0	4757.6	4484.8	4222.9	4102.9	4062.9
15°	6248.9	6238.0	6190.7	6048.8	5761.5	5430.5	5125.0	4775.8	4455.7	4299.3	4244.7
17.5°	6910.9	6910.9	6838.1	6627.2	6307.1	5896.1	5517.8	5074.0	4699.4	4506.6	4441.1
20°	7583.8	7580.1	7489.2	7234.6	6856.3	6383.5	5903.3	5415.9	4950.4	4717.6	4637.6
22.5°	8293.0	8285.8	8173.0	7882.0	7431.0	6896.3	6336.2	5754.2	5226.8	4946.7	4844.9
25°	9107.8	9096.9	8958.7	8602.2	8067.5	7463.7	6823.6	6150.7	5543.2	5201.3	5081.3
27.5°	9973.5	9958.9	9795.2	9380.6	8795.0	8067.5	7361.9	6609.0	5892.4	5485.0	5350.5
30°	10744.6	10733.7	10555.4	10129.9	9457.0	8667.7	7874.7	7067.3	6259.8	5786.9	5619.6
32.5°	11326.5	11326.5	11166.5	10748.2	10049.9	9242.4	8391.2	7500.1	6641.7	6110.7	5914.2
35°	11679.4	11690.3	11552.1	11217.4	10559.1	9784.3	8925.9	8009.3	7049.1	6456.2	6245.2
37.5°	11730.3	11766.7	11686.6	11461.1	10911.9	10235.4	9449.7	8500.4	7471.0	6805.4	6569.0
40°	11493.9	11519.3	11523.0	11435.7	11057.4	10559.1	9911.6	9020.5	7918.4	7172.8	6900.0
42.5°	11021.0	11039.2	11071.9	11097.4	10951.9	10700.9	10264.5	9504.3	8394.9	7547.4	7227.3
45°	10409.9	10406.3	10460.9	10570.0	10562.7	10620.9	10460.9	9944.4	8889.6	7973.0	7591.0
47.5°	9497.0	9478.8	9671.6	9918.9	10042.6	10315.4	10464.5	10289.9	9427.9	8442.2	8005.7
50°	8067.5	8049.3	8471.3	9053.2	9417.0	9831.6	10264.5	10497.2	9991.7	8969.6	8456.7
52.5°	6328.9	6310.7	6845.4	7863.8	8656.8	9260.6	9860.7	10544.5	10526.3	9558.8	8965.9
55°	4706.7	4692.1	5212.2	6314.3	7598.3	8598.6	9366.0	10420.9	11028.3	10235.4	9584.3
57.5°	3317.2	3309.9	3761.0	4673.9	6238.0	7791.1	8889.6	10180.8	11490.2	10970.1	10282.6
60°	2327.9	2317.0	2644.3	3350.0	4717.6	6572.6	8416.7	9860.7	11835.8	11693.9	11024.6
62.5°	1567.7	1560.4	1793.2	2382.4	3350.0	5059.5	7700.2	9646.1	12032.2	12421.4	11773.9
65°	1189.4	1185.8	1291.2	1615.0	2371.5	3633.7	6561.7	9620.7	12057.6	12967.0	12410.5
67.5°	960.2	963.9	1022.1	1207.6	1640.4	2582.5	5088.6	9460.6	11923.1	13152.5	12719.6
70°	785.7	785.7	811.1	934.8	1211.2	1742.3	3553.6	8733.2	11548.4	12668.7	12352.3
72.5°	600.2	603.8	683.8	756.6	913.0	1222.1	2276.9	7227.3	10664.6	11170.1	10930.1
75°	476.5	472.8	520.1	622.0	709.3	873.0	1396.7	5183.1	9075.1	8729.5	8576.7
77.5°	341.9	338.3	374.6	461.9	538.3	618.3	832.9	2615.2	4935.8	4535.7	4423.0
80°	232.8	225.5	258.2	320.1	356.5	363.7	407.4	1003.9	2153.3	2029.6	2004.2
82.5°	120.0	120.0	138.2	181.9	185.5	189.1	181.9	323.7	712.9	665.6	636.5
85°	47.3	47.3	50.9	61.8	61.8	65.5	65.5	83.7	76.4	72.7	69.1
87.5°	3.6	3.6	7.3	7.3	10.9	10.9	10.9	14.5	18.2	18.2	18.2
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°	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9	3600.9
2.5°	3630.0	3615.5	3568.2	3557.3	3550.0	3539.1	3542.7	3517.3	3506.4	3510.0	3495.4
5°	3695.5	3670.0	3611.8	3586.4	3579.1	3568.2	3579.1	3560.9	3542.7	3550.0	3542.7
7.5°	3786.4	3750.1	3677.3	3651.8	3648.2	3637.3	3651.8	3637.3	3622.7	3630.0	3615.5
10°	3881.0	3833.7	3753.7	3728.2	3728.2	3724.6	3739.1	3717.3	3702.8	3706.4	3699.1
12.5°	4019.2	3957.4	3870.1	3848.3	3837.3	3848.3	3851.9	3822.8	3797.3	3801.0	3790.1
15°	4186.5	4117.4	4022.9	3990.1	3982.8	3979.2	3964.7	3928.3	3895.5	3891.9	3881.0
17.5°	4368.4	4281.1	4168.3	4135.6	4102.9	4092.0	4055.6	4008.3	3957.4	3957.4	3942.8
20°	4543.0	4444.8	4310.2	4262.9	4215.6	4172.0	4110.1	4033.8	3968.3	3957.4	3942.8
22.5°	4732.1	4615.7	4459.3	4390.2	4306.6	4219.3	4113.8	4011.9	3928.3	3910.1	3899.2
25°	4943.1	4797.6	4612.1	4510.2	4375.7	4241.1	4084.7	3953.7	3855.5	3826.4	3819.2
27.5°	5175.9	5001.3	4775.8	4626.6	4430.2	4219.3	4019.2	3862.8	3742.8	3706.4	3695.5
30°	5412.3	5205.0	4924.9	4706.7	4430.2	4150.2	3899.2	3717.3	3579.1	3528.2	3520.9
32.5°	5648.7	5415.9	5059.5	4750.3	4386.6	4033.8	3742.8	3528.2	3371.8	3309.9	3324.5
35°	5932.4	5648.7	5183.1	4768.5	4313.8	3891.9	3564.6	3313.6	3153.5	3099.0	3109.9
37.5°	6227.1	5881.5	5281.4	4753.9	4212.0	3731.9	3364.5	3120.8	2920.7	2826.2	2837.1
40°	6481.7	6092.5	5350.5	4703.0	4081.0	3550.0	3168.1	2848.0	2571.6	2480.6	2469.7
42.5°	6721.7	6248.9	5386.8	4626.6	3931.9	3339.0	2888.0	2477.0	2200.6	2087.8	2091.4
45°	6972.7	6401.6	5372.3	4524.8	3746.4	3091.7	2527.9	2113.3	1869.6	1767.7	1771.4
47.5°	7260.0	6565.3	5357.7	4415.7	3520.9	2771.6	2182.4	1793.2	1582.2	1509.5	1502.2
50°	7565.6	6747.2	5339.6	4281.1	3269.9	2415.2	1840.5	1494.9	1316.7	1269.4	1258.5
52.5°	7911.1	6943.6	5328.6	4121.1	2968.0	2036.9	1534.9	1233.0	1113.0	1080.3	1076.6
55°	8325.8	7172.8	5343.2	3928.3	2604.3	1680.4	1276.7	1062.1	982.1	963.9	960.2
57.5°	8831.4	7467.4	5386.8	3702.8	2222.4	1371.3	1087.6	956.6	905.7	891.1	891.1
60°	9380.6	7802.0	5466.9	3448.2	1840.5	1131.2	963.9	873.0	851.1	869.3	869.3
62.5°	9973.5	8194.8	5608.7	3139.0	1484.0	956.6	865.7	803.8	789.3	825.7	829.3
65°	10522.7	8576.7	5699.6	2768.0	1178.5	829.3	789.3	734.7	742.0	778.4	774.7
67.5°	10861.0	8893.2	5572.3	2302.4	934.8	734.7	709.3	662.0	680.2	709.3	712.9
70°	10653.6	8715.0	4943.1	1738.6	731.1	640.2	622.0	592.9	607.4	643.8	658.4
72.5°	9638.8	7805.6	3844.6	1174.8	589.2	538.3	545.6	531.0	549.2	582.0	614.7
75°	7823.8	5899.7	2578.8	752.9	465.6	458.3	469.2	458.3	465.6	498.3	516.5
77.5°	4084.7	2877.1	1284.0	469.2	345.5	356.5	374.6	378.3	400.1	407.4	414.7
80°	1905.9	1294.9	534.7	261.9	229.1	251.0	287.3	291.0	298.3	309.2	312.8
82.5°	622.0	389.2	247.3	141.9	130.9	141.9	185.5	221.9	225.5	247.3	247.3
85°	65.5	40.0	54.6	58.2	50.9	61.8	83.7	80.0	36.4	21.8	21.8
87.5°	18.2	14.5	18.2	18.2	14.5	14.5	10.9	3.6	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)