

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: P836057

Luminaire Tested: **ARCH3-130-740-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20483 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 132.6
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

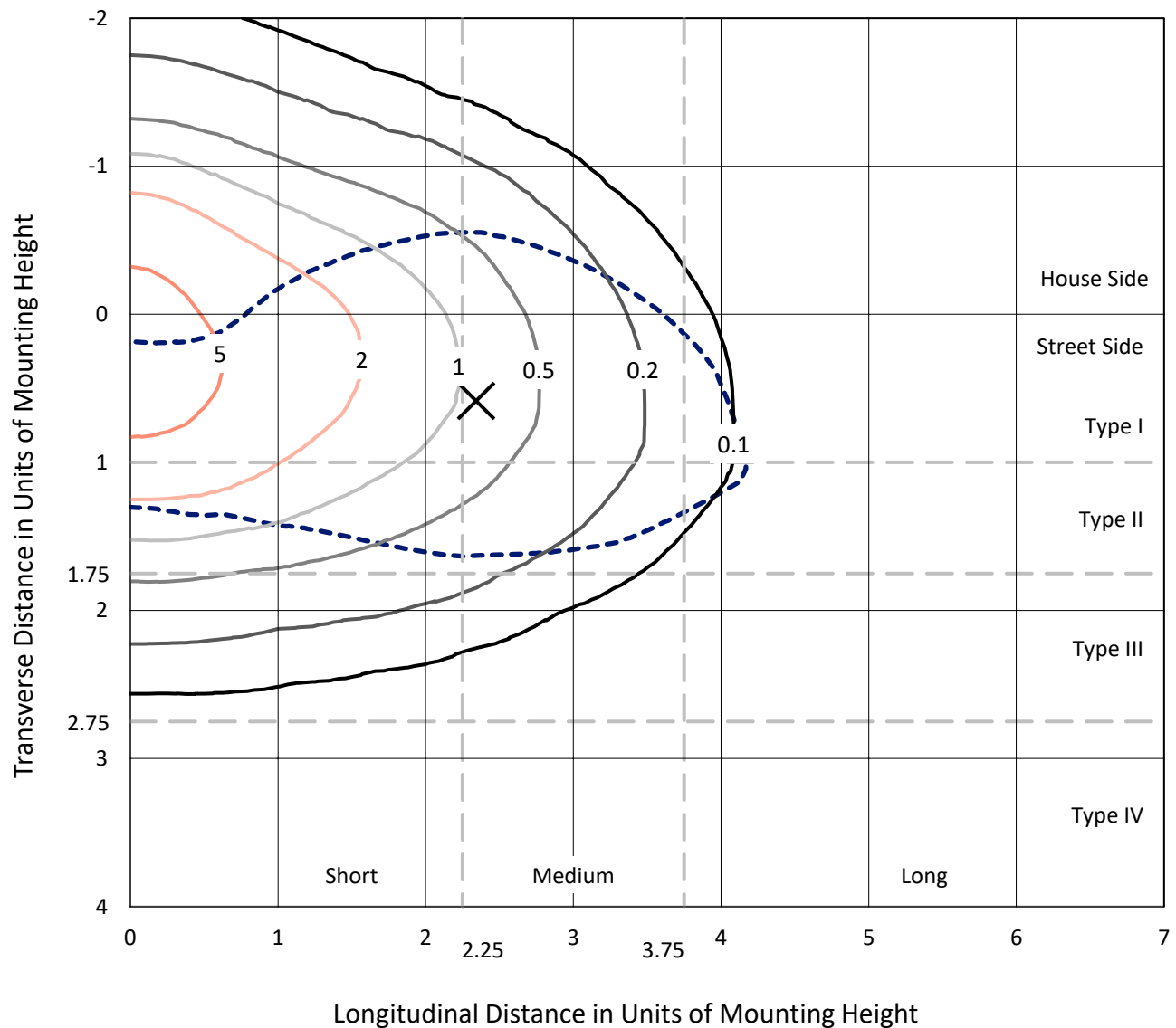


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Iso-Footcandle Lines of Horizontal Illumination

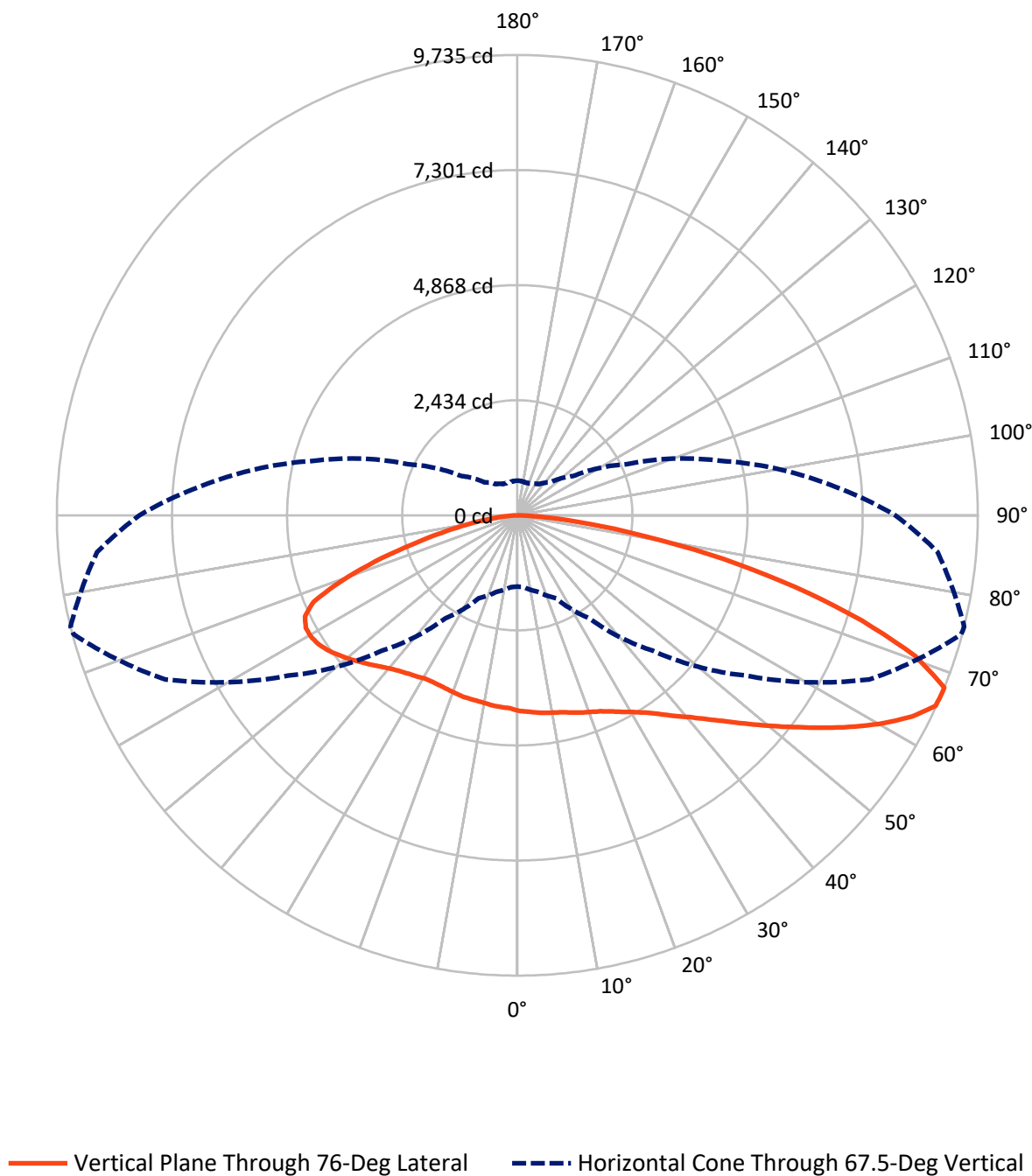
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	6921.3	0.0	6921.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13561.7	0.0	13561.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	20483.0	0.0	20483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.0	1.9
10°-20°	1219.7	6.0
20°-30°	2072.4	10.1
30°-40°	2948.7	14.4
40°-50°	3724.1	18.2
50°-60°	4032.0	19.7
60°-70°	3750.2	18.3
70°-80°	2014.2	9.8
80°-90°	322.7	1.6
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°	20483.0	100.0
0°-180°	20483.0	100.0

Coefficient of Utilization



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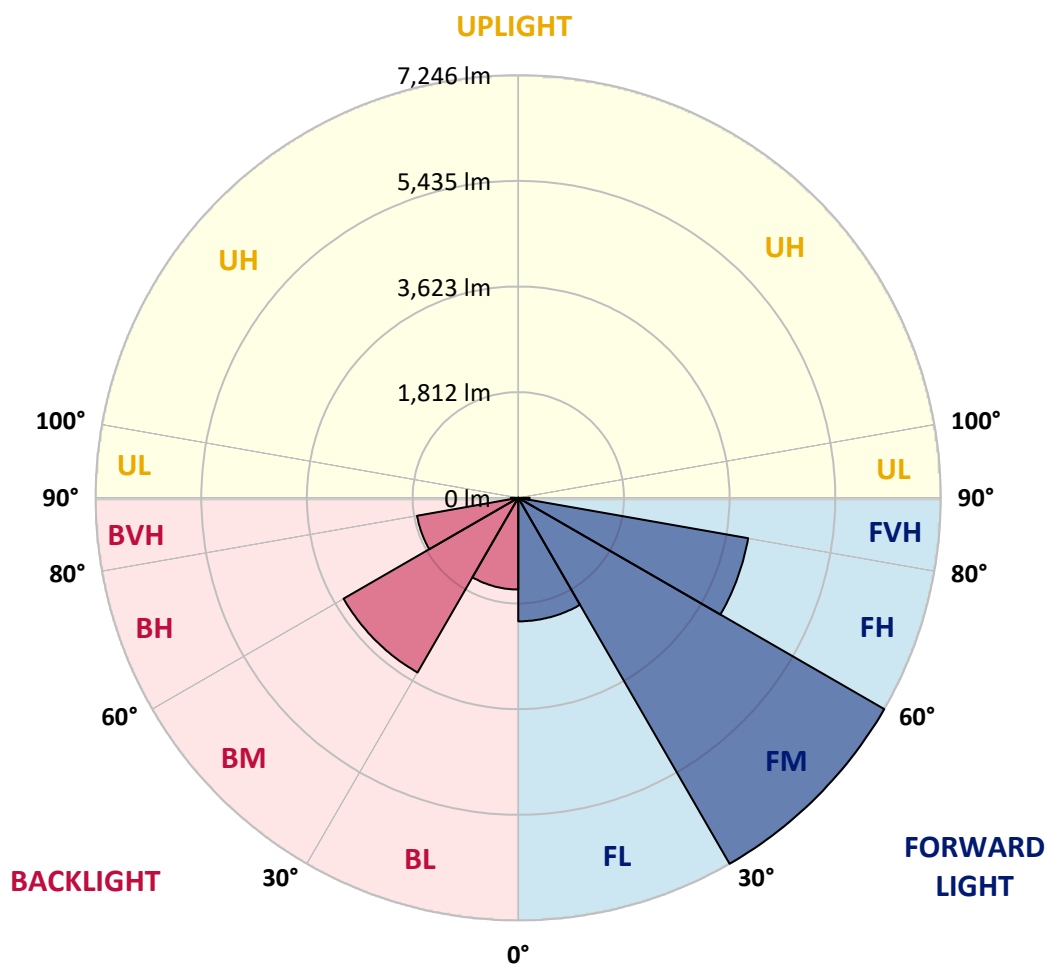
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.2	10.3			
FM	(30°-60°)	7246.1	35.4			
FH	(60°-80°)	4002.2	19.5			G2/5000
FVH	(80°-90°)	195.2	1.0			G2/225
BL	(0°-30°)	1572.9	7.7	B3/2500		
BM	(30°-60°)	3458.7	16.9	B3/5000		
BH	(60°-80°)	1762.2	8.6	B3/2500		G3/2500
BVH	(80°-90°)	127.5	0.6			G2/225
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°	76°	85°
0°	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5
2.5°	4263.0	4255.4	4225.0	4228.8	4228.8	4225.0	4179.4	4160.3	4160.3	4156.5	4114.7
5°	4415.1	4403.7	4369.5	4361.9	4346.7	4327.7	4255.4	4213.6	4194.6	4190.8	4133.7
7.5°	4593.9	4578.7	4536.8	4514.0	4476.0	4426.5	4335.3	4270.6	4225.0	4221.2	4141.3
10°	4772.6	4757.4	4708.0	4666.1	4612.9	4533.0	4415.1	4320.1	4247.8	4240.2	4145.1
12.5°	4985.6	4970.3	4909.5	4856.3	4776.4	4669.9	4514.0	4384.7	4285.8	4274.4	4156.5
15°	5209.9	5187.1	5126.3	5065.4	4966.5	4829.6	4643.3	4472.2	4346.7	4327.7	4190.8
17.5°	5396.3	5365.8	5316.4	5255.6	5145.3	4985.6	4772.6	4559.6	4403.7	4388.5	4225.0
20°	5556.0	5533.2	5479.9	5422.9	5305.0	5130.1	4894.3	4647.1	4457.0	4437.9	4251.6
22.5°	5708.1	5677.7	5647.3	5605.4	5476.1	5282.2	5035.0	4753.6	4525.4	4502.6	4285.8
25°	5883.0	5848.8	5837.4	5814.6	5662.5	5464.7	5206.1	4886.7	4620.5	4593.9	4346.7
27.5°	6099.8	6061.8	6039.0	6039.0	5856.4	5651.1	5388.7	5042.6	4730.8	4708.0	4422.7
30°	6328.0	6282.3	6248.1	6248.1	6042.8	5837.4	5567.4	5198.5	4856.3	4829.6	4521.6
32.5°	6529.5	6483.9	6445.9	6442.1	6229.1	6023.7	5753.7	5369.7	5008.4	4974.2	4643.3
35°	6685.4	6643.6	6609.4	6617.0	6415.4	6213.9	5962.9	5597.8	5198.5	5160.5	4803.0
37.5°	6780.5	6765.3	6746.3	6772.9	6586.6	6396.4	6179.7	5818.4	5415.3	5381.1	5000.8
40°	6830.0	6818.5	6894.6	6928.8	6731.1	6559.9	6396.4	6046.6	5651.1	5613.0	5228.9
42.5°	6902.2	6997.3	7027.7	7020.1	6837.6	6685.4	6594.2	6293.7	5928.7	5894.4	5502.8
45°	6643.6	6620.8	6788.1	6879.4	6845.2	6765.3	6780.5	6590.4	6251.9	6217.7	5818.4
47.5°	6297.6	6267.1	6362.2	6586.6	6719.7	6795.7	6947.8	6898.4	6624.6	6594.2	6187.3
50°	5567.4	5609.2	5962.9	6263.3	6525.7	6788.1	7088.5	7229.3	7035.3	7004.9	6582.8
52.5°	4757.4	4799.2	5168.1	5860.2	6289.9	6731.1	7191.2	7560.1	7480.2	7446.0	7004.9
55°	4167.9	4259.2	4677.5	5179.5	5955.3	6552.3	7252.1	7898.6	7959.4	7929.0	7465.0
57.5°	3582.3	3650.8	3966.4	4411.3	5498.9	6240.5	7248.3	8214.2	8461.4	8431.0	7932.8
60°	2894.0	2981.4	3232.4	3711.6	4890.5	5867.8	7141.8	8461.4	8944.3	8921.5	8385.3
62.5°	2422.4	2449.0	2627.8	3042.3	4107.1	5396.3	6902.2	8594.5	9381.7	9366.5	8792.2
65°	1950.9	1954.7	2118.2	2464.3	3350.3	4810.6	6495.3	8545.0	9712.5	9720.1	9085.1
67.5°	1505.9	1525.0	1673.3	1935.7	2662.0	4050.1	5913.5	8210.4	9716.3	9735.3	8917.7
70°	1042.0	1057.2	1281.6	1536.4	2057.4	3228.6	5126.3	7324.3	8917.7	8932.9	7993.6
72.5°	734.0	741.6	981.1	1228.3	1608.6	2433.8	3867.5	6058.0	7601.9	7613.3	6723.5
75°	547.6	555.2	692.1	931.7	1232.1	1684.7	2643.0	4639.5	6073.2	6073.2	5308.8
77.5°	387.9	391.7	448.7	642.7	821.4	1137.1	1589.6	3038.5	4457.0	4464.6	3867.5
80°	262.4	266.2	292.8	433.5	513.4	616.1	863.3	1593.4	2810.3	2821.7	2456.7
82.5°	136.9	144.5	163.5	220.6	258.6	342.3	444.9	810.0	1555.4	1585.8	1475.5
85°	53.2	53.2	60.8	72.3	95.1	133.1	205.4	308.0	703.5	726.3	650.3
87.5°	19.0	19.0	22.8	22.8	26.6	30.4	34.2	45.6	79.9	79.9	76.1
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°	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5	4137.5
2.5°	4099.5	4099.5	4080.5	4088.1	4084.3	4076.7	4069.1	4080.5	4069.1	4042.4	4038.6
5°	4107.1	4099.5	4069.1	4065.3	4053.9	4038.6	4019.6	4027.2	4008.2	3985.4	3981.6
7.5°	4110.9	4095.7	4053.9	4038.6	4015.8	3985.4	3955.0	3955.0	3928.4	3905.5	3901.7
10°	4103.3	4084.3	4027.2	3996.8	3955.0	3909.3	3867.5	3856.1	3825.7	3799.1	3799.1
12.5°	4107.1	4080.5	4008.2	3958.8	3901.7	3844.7	3791.5	3776.2	3749.6	3723.0	3719.2
15°	4129.9	4091.9	4000.6	3936.0	3852.3	3787.7	3730.6	3719.2	3696.4	3677.4	3677.4
17.5°	4152.7	4103.3	3989.2	3897.9	3795.3	3723.0	3669.8	3669.8	3654.6	3643.1	3643.1
20°	4164.1	4107.1	3966.4	3844.7	3726.8	3650.8	3601.3	3608.9	3605.1	3601.3	3601.3
22.5°	4190.8	4114.7	3947.4	3795.3	3654.6	3574.7	3529.1	3540.5	3536.7	3536.7	3540.5
25°	4232.6	4133.7	3932.2	3749.6	3586.1	3498.6	3449.2	3456.8	3456.8	3456.8	3456.8
27.5°	4289.6	4171.7	3928.4	3707.8	3517.7	3418.8	3357.9	3357.9	3342.7	3346.5	3350.3
30°	4377.1	4244.0	3936.0	3669.8	3445.4	3319.9	3247.6	3236.2	3232.4	3240.0	3243.8
32.5°	4483.6	4342.9	3981.6	3643.1	3369.3	3209.6	3118.4	3114.5	3103.1	3103.1	3103.1
35°	4616.7	4437.9	4023.4	3639.3	3293.3	3091.7	2992.9	2981.4	2954.8	2943.4	2943.4
37.5°	4787.8	4586.3	4072.9	3612.7	3228.6	2977.6	2859.8	2821.7	2791.3	2787.5	2787.5
40°	4997.0	4753.6	4145.1	3582.3	3160.2	2859.8	2703.8	2639.2	2643.0	2658.2	2658.2
42.5°	5244.2	4958.9	4236.4	3567.1	3061.3	2738.1	2521.3	2445.2	2471.9	2487.1	2490.9
45°	5533.2	5202.3	4339.1	3548.1	2970.0	2601.2	2327.4	2232.3	2243.7	2247.5	2251.3
47.5°	5867.8	5472.3	4445.6	3532.9	2867.4	2430.0	2114.4	1988.9	1985.1	1962.3	1969.9
50°	6217.7	5757.5	4555.8	3506.2	2741.9	2228.5	1890.0	1741.7	1711.3	1677.1	1680.9
52.5°	6590.4	6050.4	4658.5	3464.4	2586.0	2023.1	1677.1	1517.3	1456.5	1418.5	1426.1
55°	7001.1	6350.8	4757.4	3399.8	2422.4	1817.8	1486.9	1323.4	1247.3	1216.9	1220.7
57.5°	7377.6	6639.8	4829.6	3319.9	2243.7	1631.4	1319.6	1159.9	1110.4	1106.6	1110.4
60°	7742.6	6883.2	4860.1	3209.6	2061.2	1460.3	1163.7	1042.0	1007.8	1026.8	1030.6
62.5°	8050.7	7039.1	4844.9	3061.3	1874.8	1296.8	1038.2	950.7	927.9	965.9	969.7
65°	8229.4	7088.5	4738.4	2848.3	1673.3	1137.1	920.3	825.2	813.8	836.6	848.0
67.5°	7993.6	6780.5	4449.4	2555.5	1448.9	988.7	806.2	730.2	711.1	730.2	730.2
70°	7084.7	5875.4	3764.8	2091.6	1201.7	844.2	699.7	646.5	631.3	646.5	642.7
72.5°	5902.1	4886.7	2966.2	1631.4	946.9	711.1	608.5	559.0	543.8	528.6	521.0
75°	4578.7	3711.6	2152.4	1197.9	714.9	570.4	509.6	463.9	425.9	441.1	433.5
77.5°	3354.1	2605.0	1525.0	829.0	513.4	441.1	399.3	365.1	338.5	368.9	365.1
80°	2160.0	1684.7	1019.2	555.2	353.7	308.0	292.8	273.8	300.4	391.7	399.3
82.5°	1319.6	1068.6	608.5	361.3	232.0	205.4	190.1	190.1	308.0	338.5	342.3
85°	589.4	566.6	330.8	186.3	129.3	117.9	106.5	136.9	125.5	91.3	95.1
87.5°	95.1	98.9	72.3	64.6	49.4	49.4	38.0	26.6	19.0	11.4	11.4
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)