

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: P1210633

Luminaire Tested: **ARCH3-180-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24419 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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



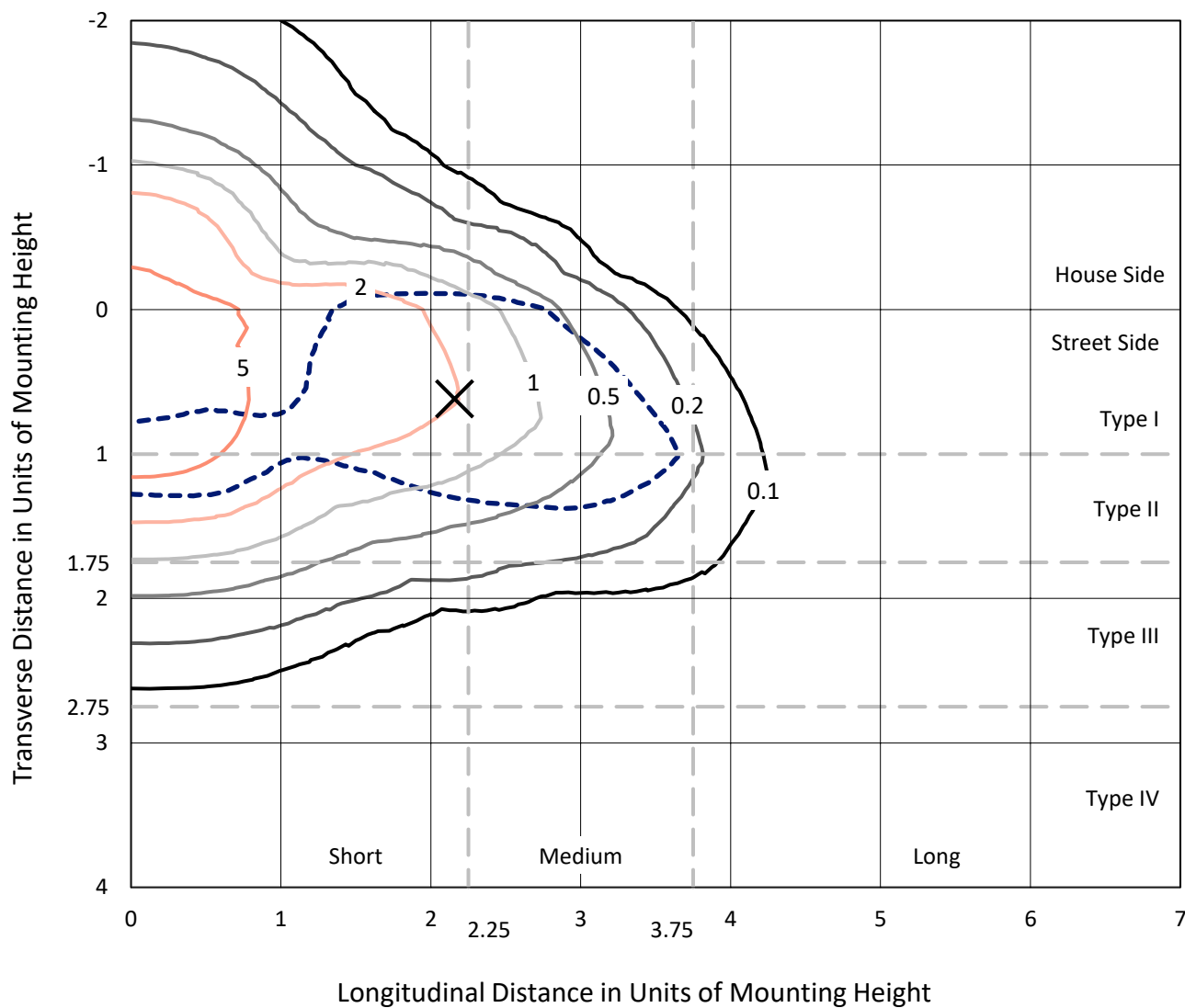
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

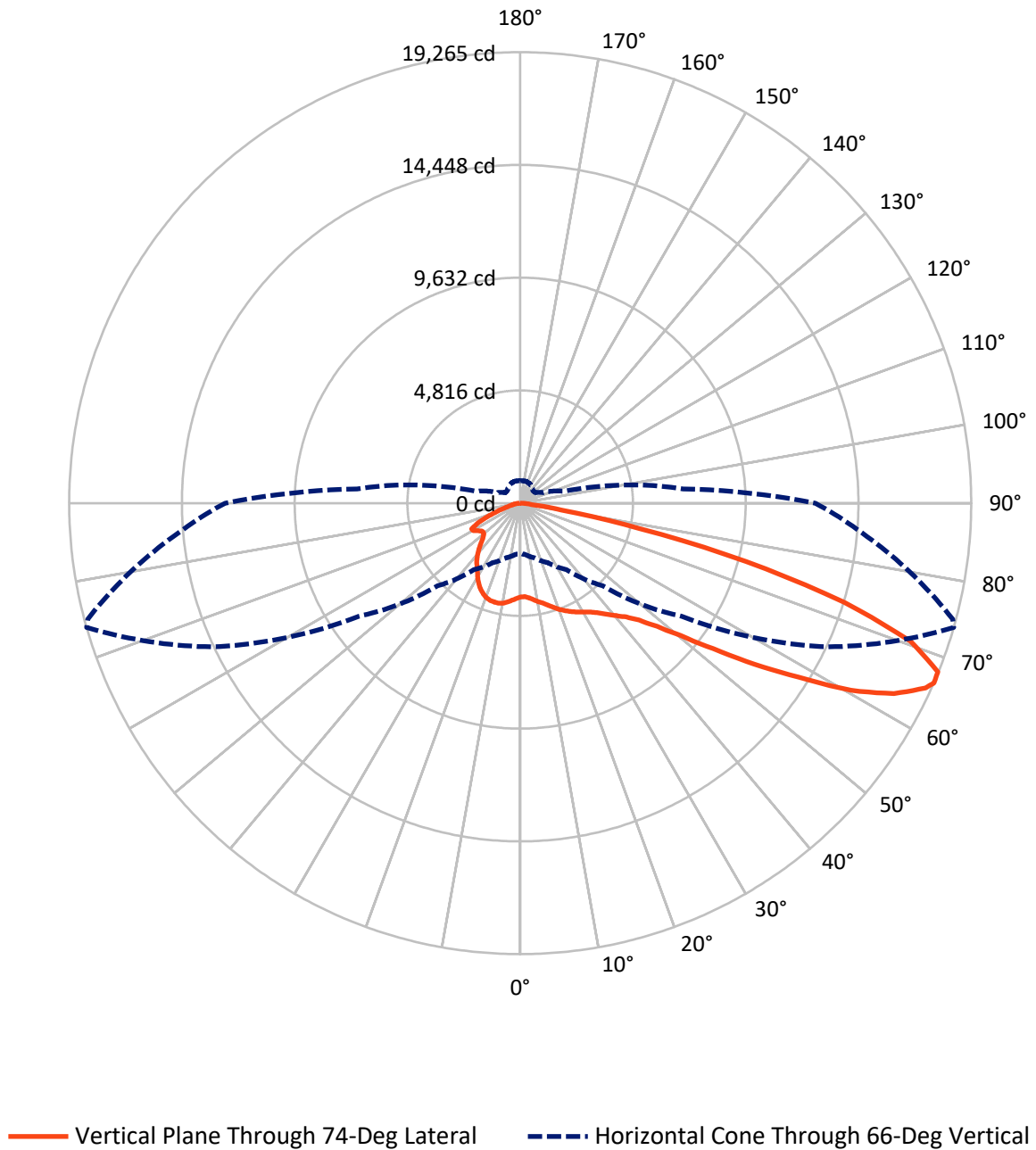


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5946.7	0.0	5946.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	18472.3	0.0	18472.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	24419.0	0.0	24419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	1.6
10°-20°	1174.3	4.8
20°-30°	2203.6	9.0
30°-40°	3389.6	13.9
40°-50°	4559.3	18.7
50°-60°	5391.9	22.1
60°-70°	4987.8	20.4
70°-80°	2098.4	8.6
80°-90°	232.2	1.0
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°	24419.0	100.0
0°-180°	24419.0	100.0

Coefficient of Utilization



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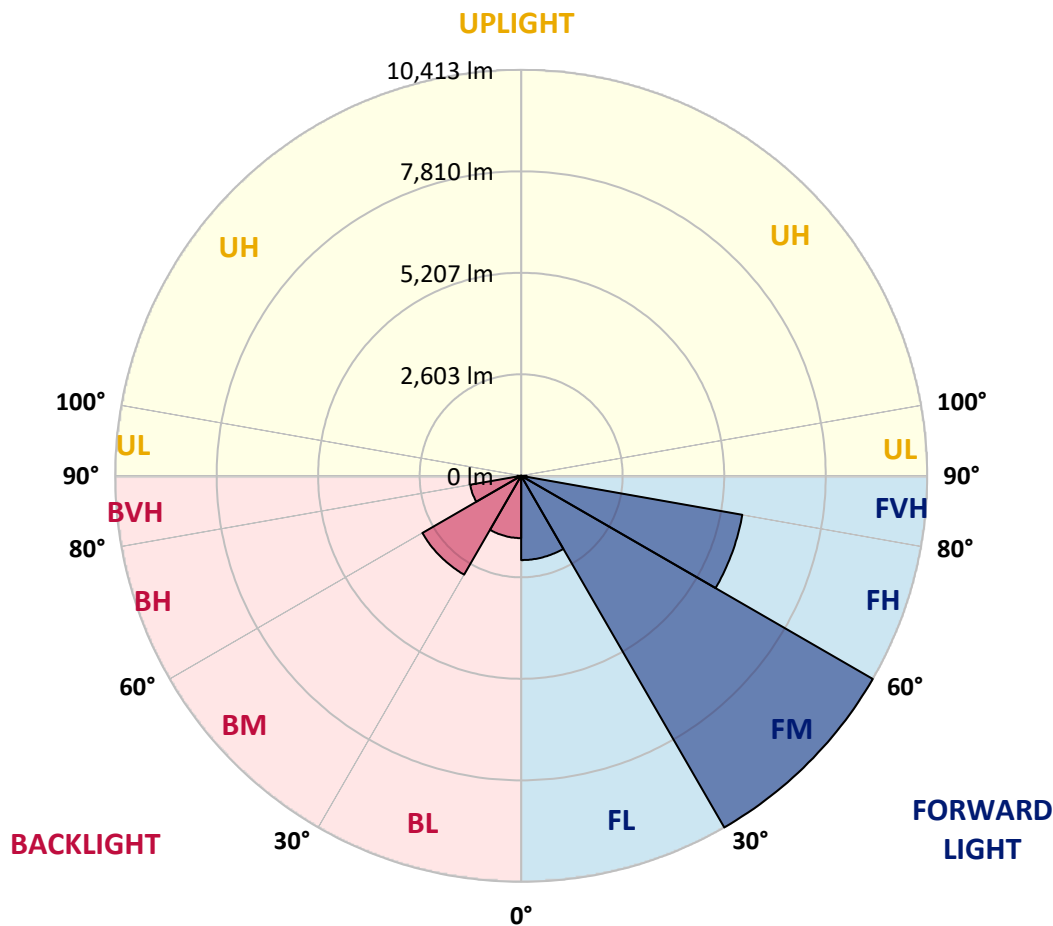
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2161.4	8.9			
FM	(30°-60°)	10413.3	42.6			
FH	(60°-80°)	5758.7	23.6			G3/7500
FVH	(80°-90°)	138.9	0.6			G2/225
BL	(0°-30°)	1598.3	6.5	B3/2500		
BM	(30°-60°)	2927.6	12.0	B3/5000		
BH	(60°-80°)	1327.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	93.3	0.4			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°	74°	75°	85°
0°	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1
2.5°	3990.5	3984.2	3996.8	4015.7	4025.1	4009.4	4003.1	3999.9	3999.9	3990.5	4006.2
5°	3802.0	3798.8	3827.1	3861.7	3927.7	3974.8	4037.6	4075.4	4062.8	4043.9	4056.5
7.5°	3556.9	3550.6	3585.2	3651.2	3742.3	3846.0	3999.9	4119.3	4166.5	4160.2	4157.1
10°	3651.2	3644.9	3641.7	3622.9	3654.3	3754.9	3915.1	4125.6	4285.9	4289.0	4292.2
12.5°	3977.9	3993.7	3977.9	3918.2	3849.1	3811.4	3905.7	4141.3	4386.4	4405.3	4483.8
15°	4424.1	4408.4	4377.0	4307.9	4201.0	4087.9	4018.8	4213.6	4531.0	4546.7	4719.5
17.5°	4816.9	4829.5	4810.6	4744.6	4618.9	4471.3	4260.7	4339.3	4684.9	4728.9	4970.9
20°	5244.2	5294.5	5269.4	5187.7	5084.0	4864.0	4600.1	4521.5	4854.6	4886.0	5231.7
22.5°	5737.5	5791.0	5743.8	5665.3	5580.4	5310.2	4970.9	4744.6	4996.0	5062.0	5483.0
25°	6328.3	6378.5	6334.6	6212.0	6105.2	5775.3	5369.9	4996.0	5134.3	5206.5	5687.3
27.5°	6796.4	6834.2	6875.0	6802.7	6639.3	6296.8	5784.7	5256.8	5272.5	5347.9	5875.8
30°	7214.4	7308.6	7343.2	7352.6	7214.4	6831.0	6208.9	5527.0	5391.9	5470.5	6064.3
32.5°	7786.2	7927.6	7871.1	7927.6	7845.9	7333.8	6648.8	5806.7	5545.9	5618.1	6243.4
35°	8622.0	8735.1	8587.5	8543.5	8411.5	7842.8	7073.0	6095.8	5750.1	5828.7	6413.1
37.5°	9520.7	9649.5	9435.8	9259.9	9008.5	8345.5	7437.4	6475.9	6032.9	6095.8	6570.2
40°	10306.2	10413.1	10227.7	9995.1	9574.1	8788.6	7751.7	6743.0	6315.7	6394.3	6752.5
42.5°	11032.1	11101.2	10893.8	10670.7	10108.3	9187.6	8091.0	7025.8	6645.6	6721.0	6900.1
45°	11767.3	11820.7	11531.7	11214.3	10554.4	9552.1	8464.9	7421.7	7129.5	7230.1	7138.9
47.5°	11899.3	11915.0	11864.7	11651.1	10906.4	9900.9	8926.8	7952.8	7867.9	7977.9	7550.6
50°	10984.9	11126.3	11437.4	11647.9	11047.8	10193.1	9388.7	8713.2	8886.0	9027.4	8405.2
52.5°	9209.6	9344.7	10064.3	10862.4	10708.4	10259.1	9885.2	9677.8	10321.9	10491.6	9567.8
55°	7336.9	7456.3	8216.7	9366.7	9611.8	9957.4	10416.2	10909.5	12153.8	12266.9	10843.5
57.5°	6042.3	6108.3	6651.9	7757.9	8150.7	8992.8	10702.1	12373.7	14017.1	14189.9	11952.7
60°	4955.2	5027.4	5432.8	6344.0	6865.6	7613.4	10475.9	13819.1	16241.7	16241.7	13376.1
62.5°	3729.7	3792.6	4169.6	4882.9	5759.5	6444.5	9753.2	14777.5	17919.6	17844.2	14406.7
65°	2560.8	2611.1	2884.5	3358.9	4147.6	5492.5	8766.6	14790.1	19031.9	18931.4	14846.6
66°	2149.2	2193.2	2425.7	2809.1	3472.1	4983.4	8417.8	14523.0	19264.5	19123.1	14661.2
67.5°	1696.8	1728.2	1882.1	2108.4	2545.1	4034.5	7867.9	13765.7	19242.5	19157.6	14189.9
70°	1212.9	1234.9	1348.0	1395.1	1505.1	2334.6	6249.7	12056.4	17699.7	17724.8	12336.0
72.5°	939.5	974.1	1043.2	1052.6	1027.5	1241.1	3792.6	10058.0	14479.0	14469.6	9156.2
75°	757.3	776.1	810.7	829.5	823.2	801.2	1605.6	7503.4	9966.9	10083.1	5128.0
77.5°	597.0	593.9	625.3	650.4	669.3	628.4	735.3	4399.0	5225.4	5077.7	1926.1
80°	439.9	439.9	483.9	493.3	521.6	527.9	490.2	1696.8	1794.2	1630.8	499.6
82.5°	289.1	289.1	336.2	342.5	370.8	411.6	355.1	509.0	496.5	471.3	226.2
85°	157.1	150.8	166.5	188.5	204.2	241.9	213.7	254.5	260.8	257.7	150.8
87.5°	31.4	28.3	44.0	50.3	56.6	75.4	69.1	103.7	144.5	141.4	66.0
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°	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1	4003.1
2.5°	4028.2	4025.1	4059.6	4100.5	4147.6	4175.9	4188.5	4210.5	4194.8	4201.0	4219.9
5°	4087.9	4097.4	4147.6	4201.0	4223.0	4207.3	4172.8	4160.2	4131.9	4125.6	4119.3
7.5°	4175.9	4191.6	4241.9	4254.5	4188.5	4078.5	3999.9	3956.0	3908.8	3896.3	3890.0
10°	4320.4	4329.9	4342.4	4213.6	4050.2	3902.5	3805.1	3764.3	3732.9	3707.7	3714.0
12.5°	4502.7	4496.4	4399.0	4131.9	3899.4	3748.6	3682.6	3657.5	3635.5	3619.7	3616.6
15°	4732.1	4688.1	4408.4	4018.8	3758.0	3632.3	3585.2	3575.8	3550.6	3550.6	3547.5
17.5°	4964.6	4851.5	4402.1	3899.4	3622.9	3553.8	3525.5	3519.2	3512.9	3509.8	3519.2
20°	5197.1	4996.0	4351.9	3751.7	3528.6	3487.8	3481.5	3484.6	3478.3	3487.8	3481.5
22.5°	5401.3	5090.3	4257.6	3594.6	3462.6	3459.5	3443.8	3450.1	3472.1	3475.2	3484.6
25°	5558.4	5124.8	4119.3	3450.1	3415.5	3409.2	3428.1	3453.2	3472.1	3475.2	3490.9
27.5°	5687.3	5106.0	3946.5	3337.0	3333.8	3368.4	3424.9	3434.4	3437.5	3437.5	3424.9
30°	5784.7	5065.1	3726.6	3211.3	3227.0	3311.8	3365.2	3365.2	3340.1	3333.8	3352.7
32.5°	5806.7	5011.7	3487.8	3082.4	3107.6	3208.1	3274.1	3252.1	3223.8	3223.8	3236.4
35°	5825.5	4939.4	3296.1	2906.5	2944.2	3063.6	3126.4	3082.4	3051.0	3041.6	3038.4
37.5°	5819.2	4911.2	3123.3	2683.4	2733.7	2849.9	2890.8	2849.9	2802.8	2780.8	2809.1
40°	5825.5	4892.3	2906.5	2438.3	2488.6	2557.7	2611.1	2579.7	2535.7	2479.1	2507.4
42.5°	5863.2	4917.4	2667.7	2199.5	2199.5	2237.2	2328.3	2306.3	2199.5	2177.5	2202.6
45°	6064.3	5052.6	2428.9	1960.7	1926.1	1951.3	2045.5	1951.3	1885.3	1885.3	1907.3
47.5°	6551.4	5303.9	2218.4	1750.2	1668.5	1718.8	1743.9	1655.9	1605.6	1593.1	1615.1
50°	7544.3	5806.7	2092.7	1577.4	1476.8	1514.5	1498.8	1495.7	1445.4	1451.7	1464.2
52.5°	9052.5	6787.0	2055.0	1492.5	1366.8	1376.3	1360.5	1366.8	1357.4	1388.8	1398.3
55°	10695.8	7820.8	2102.1	1505.1	1291.4	1225.4	1231.7	1263.1	1300.8	1351.1	1360.5
57.5°	11924.4	8339.2	2224.6	1589.9	1197.2	1096.6	1112.3	1172.0	1244.3	1285.1	1307.1
60°	12838.8	8276.4	2403.7	1611.9	1084.0	980.3	1008.6	1096.6	1159.4	1194.0	1216.0
62.5°	13137.3	7883.6	2447.7	1451.7	936.4	870.4	939.5	1030.6	1058.9	1096.6	1112.3
65°	12892.2	7327.5	2127.2	1178.3	823.2	788.7	889.2	958.4	996.1	1014.9	1018.1
66°	12603.1	6994.4	1954.4	1071.5	782.4	763.5	870.4	926.9	964.6	961.5	964.6
67.5°	11968.4	6296.8	1674.8	920.6	722.7	725.8	839.0	876.7	889.2	879.8	879.8
70°	9809.8	4433.6	1200.3	697.6	634.7	678.7	754.1	763.5	791.8	779.3	779.3
72.5°	6048.6	2177.5	804.4	534.2	565.6	634.7	631.6	663.0	729.0	747.8	760.4
75°	2972.5	882.9	531.0	452.5	505.9	531.0	524.7	603.3	697.6	779.3	807.5
77.5°	1128.0	439.9	370.8	395.9	408.5	399.1	417.9	546.7	697.6	845.2	873.5
80°	348.8	304.8	292.2	326.8	307.9	292.2	314.2	452.5	590.7	641.0	641.0
82.5°	210.5	238.8	226.2	223.1	207.4	210.5	226.2	323.6	455.6	477.6	477.6
85°	147.7	157.1	128.8	122.5	119.4	116.3	116.3	188.5	270.2	267.1	276.5
87.5°	56.6	62.8	47.1	47.1	44.0	31.4	25.1	31.4	31.4	22.0	15.7
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)