

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: P1211257

Luminaire Tested: **ARCH4-220-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211257
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: ARCH4-220-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31372 lumens
Efficiency: N/A
Efficacy: 141.4 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): 221.8
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

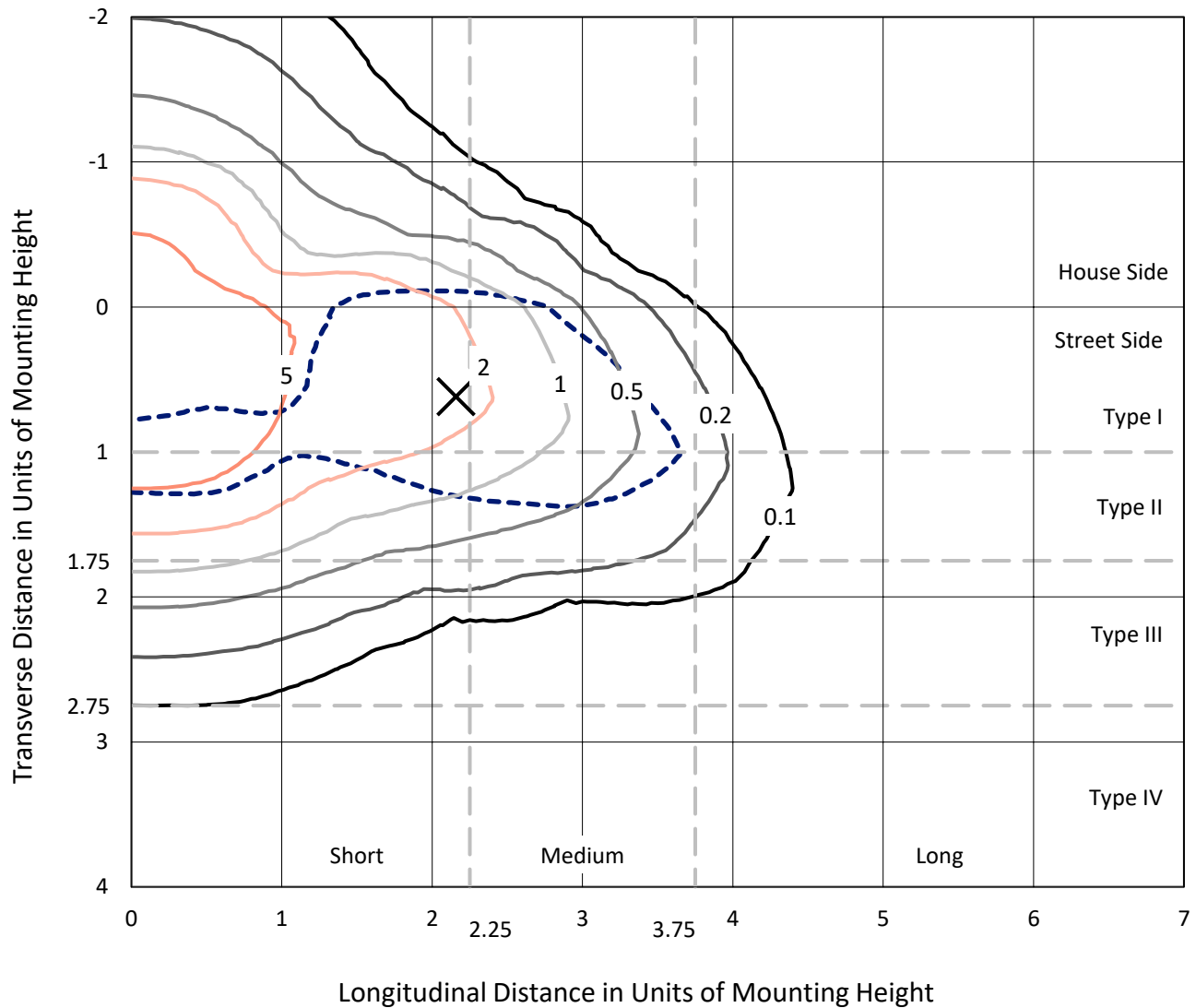


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

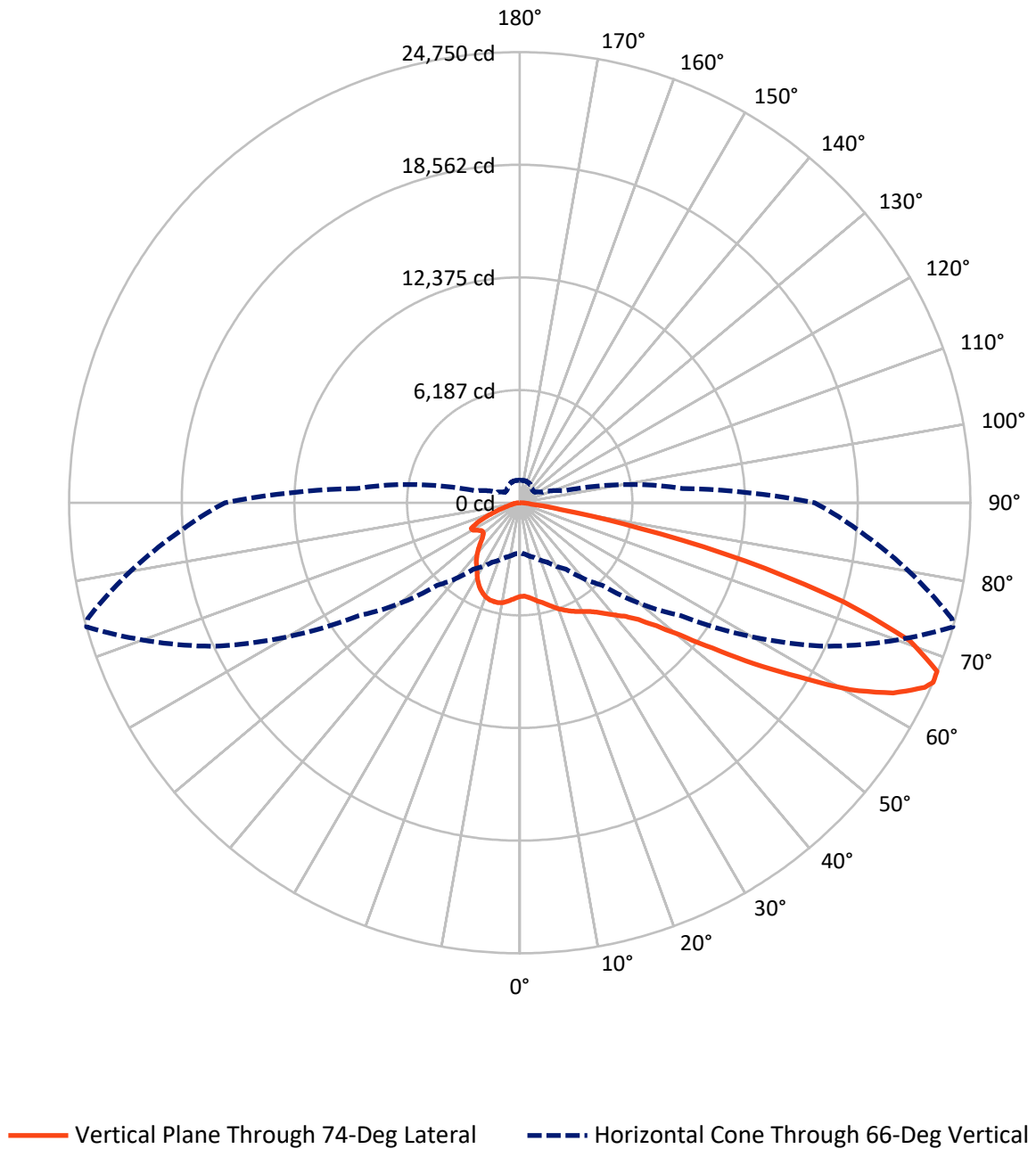


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7639.9	0.0	7639.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	23732.1	0.0	23732.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	31372.0	0.0	31372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	1.6
10°-20°	1508.7	4.8
20°-30°	2831.0	9.0
30°-40°	4354.8	13.9
40°-50°	5857.5	18.7
50°-60°	6927.2	22.1
60°-70°	6408.1	20.4
70°-80°	2695.8	8.6
80°-90°	298.3	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°	31372.0	100.0
0°-180°	31372.0	100.0

Coefficient of Utilization



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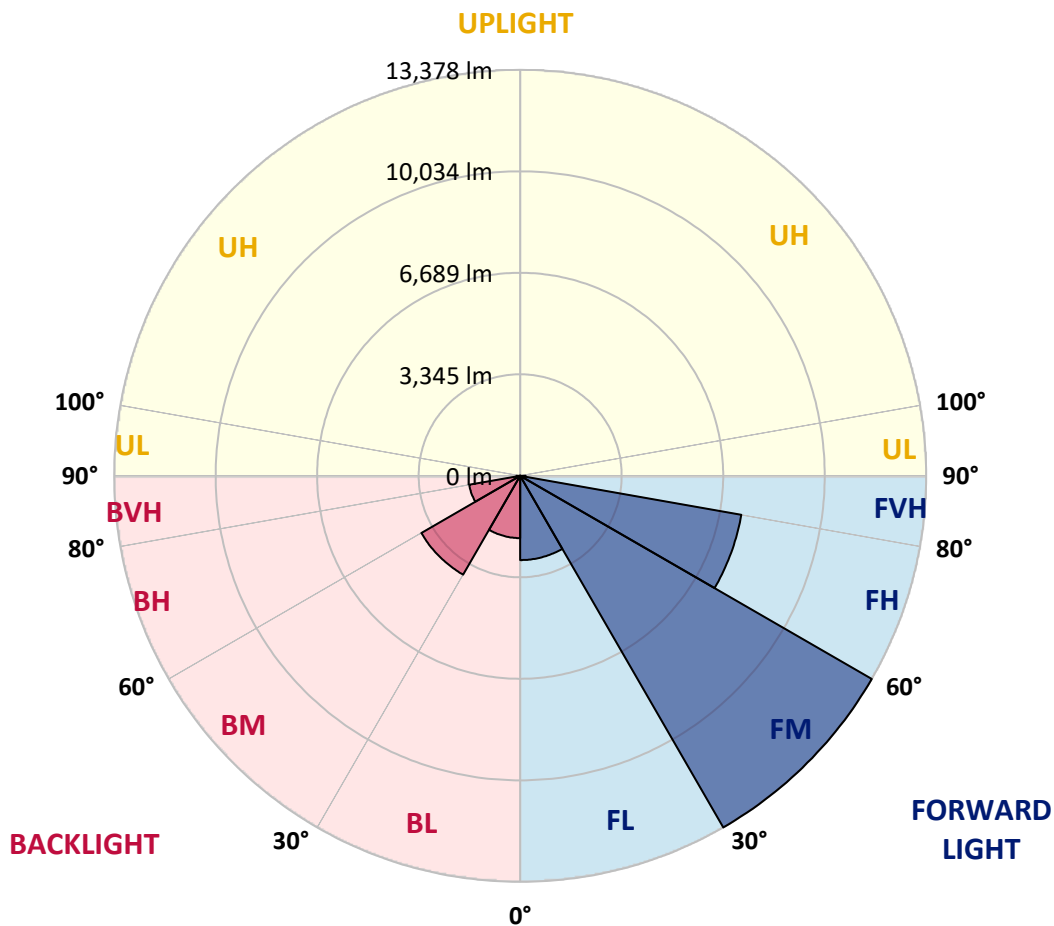
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2776.8	8.9			
FM	(30°-60°)	13378.4	42.6			
FH	(60°-80°)	7398.4	23.6			G3/7500
FVH	(80°-90°)	178.5	0.6			G2/225
BL	(0°-30°)	2053.4	6.5	B3/2500		
BM	(30°-60°)	3761.1	12.0	B3/5000		
BH	(60°-80°)	1705.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	119.8	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9
2.5°	5126.8	5118.7	5134.8	5159.1	5171.2	5151.0	5142.9	5138.9	5138.9	5126.8	5147.0
5°	4884.6	4880.5	4916.9	4961.3	5046.0	5106.6	5187.3	5235.8	5219.6	5195.4	5211.5
7.5°	4569.7	4561.6	4606.0	4690.8	4807.9	4941.1	5138.9	5292.3	5352.8	5344.8	5340.7
10°	4690.8	4682.7	4678.7	4654.5	4694.8	4824.0	5029.9	5300.3	5506.2	5510.3	5514.3
12.5°	5110.6	5130.8	5110.6	5033.9	4945.1	4896.7	5017.8	5320.5	5635.4	5659.6	5760.5
15°	5683.8	5663.7	5623.3	5534.5	5397.2	5251.9	5163.1	5413.4	5821.1	5841.3	6063.3
17.5°	6188.5	6204.6	6180.4	6095.6	5934.1	5744.4	5473.9	5574.9	6018.9	6075.4	6386.3
20°	6737.5	6802.0	6769.8	6664.8	6531.6	6249.0	5909.9	5809.0	6236.9	6277.3	6721.3
22.5°	7371.2	7439.9	7379.3	7278.4	7169.4	6822.2	6386.3	6095.6	6418.6	6503.3	7044.3
25°	8130.2	8194.8	8138.2	7980.8	7843.5	7419.7	6898.9	6418.6	6596.2	6689.0	7306.7
27.5°	8731.7	8780.1	8832.6	8739.7	8529.8	8089.8	7431.8	6753.6	6773.8	6870.7	7548.9
30°	9268.5	9389.7	9434.1	9446.2	9268.5	8776.1	7976.8	7100.8	6927.2	7028.1	7791.1
32.5°	10003.2	10184.9	10112.2	10184.9	10079.9	9421.9	8541.9	7460.1	7125.0	7217.8	8021.2
35°	11077.0	11222.4	11032.6	10976.1	10806.6	10075.9	9086.9	7831.4	7387.4	7488.3	8239.2
37.5°	12231.6	12397.1	12122.6	11896.5	11573.6	10721.8	9555.2	8319.9	7750.7	7831.4	8441.0
40°	13240.8	13378.0	13139.9	12841.1	12300.2	11291.0	9958.8	8663.0	8114.0	8214.9	8675.1
42.5°	14173.3	14262.1	13995.7	13709.1	12986.5	11803.7	10394.8	9026.3	8537.9	8634.8	8864.9
45°	15117.9	15186.5	14815.1	14407.4	13559.7	12271.9	10875.2	9535.0	9159.6	9288.7	9171.7
47.5°	15287.5	15307.6	15243.0	14968.5	14011.8	12720.0	11468.6	10217.2	10108.2	10249.5	9700.5
50°	14112.7	14294.4	14694.0	14964.5	14193.5	13095.5	12062.0	11194.1	11416.1	11597.8	10798.5
52.5°	11831.9	12005.5	12929.9	13955.3	13757.5	13180.2	12699.8	12433.4	13261.0	13479.0	12292.1
55°	9426.0	9579.4	10556.3	12033.8	12348.6	12792.7	13382.1	14015.9	15614.4	15759.8	13931.1
57.5°	7762.8	7847.6	8546.0	9966.9	10471.5	11553.4	13749.4	15897.0	18008.3	18230.3	15356.1
60°	6366.1	6458.9	6979.7	8150.3	8820.5	9781.2	13458.8	17754.0	20866.3	20866.3	17184.8
62.5°	4791.7	4872.4	5356.9	6273.2	7399.5	8279.5	12530.3	18985.2	23022.0	22925.1	18508.8
65°	3290.0	3354.6	3705.8	4315.4	5328.6	7056.4	11262.7	19001.3	24451.0	24321.9	19074.0
66°	2761.2	2817.7	3116.4	3608.9	4460.7	6402.4	10814.7	18658.2	24749.8	24568.1	18835.8
67.5°	2179.9	2220.3	2418.1	2708.7	3269.8	5183.3	10108.2	17685.3	24721.5	24612.5	18230.3
70°	1558.2	1586.5	1731.8	1792.3	1933.6	2999.4	8029.2	15489.3	22739.4	22771.7	15848.6
72.5°	1207.0	1251.4	1340.2	1352.3	1320.0	1594.5	4872.4	12921.9	18601.7	18589.6	11763.3
75°	972.9	997.1	1041.5	1065.7	1057.6	1029.4	2062.8	9639.9	12804.8	12954.2	6588.1
77.5°	767.0	763.0	803.3	835.6	859.8	807.4	944.6	5651.6	6713.2	6523.5	2474.6
80°	565.2	565.2	621.7	633.8	670.1	678.2	629.7	2179.9	2305.0	2095.1	641.9
82.5°	371.4	371.4	431.9	440.0	476.3	528.8	456.2	654.0	637.8	605.5	290.7
85°	201.8	193.8	214.0	242.2	262.4	310.8	274.5	327.0	335.1	331.0	193.8
87.5°	40.4	36.3	56.5	64.6	72.7	96.9	88.8	133.2	185.7	181.7	84.8
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°	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9	5142.9
2.5°	5175.2	5171.2	5215.6	5268.1	5328.6	5364.9	5381.1	5409.3	5389.2	5397.2	5421.5
5°	5251.9	5264.0	5328.6	5397.2	5425.5	5405.3	5360.9	5344.8	5308.4	5300.3	5292.3
7.5°	5364.9	5385.1	5449.7	5465.9	5381.1	5239.8	5138.9	5082.4	5021.8	5005.7	4997.6
10°	5550.6	5562.7	5578.9	5413.4	5203.5	5013.7	4888.6	4836.1	4795.7	4763.5	4771.5
12.5°	5784.8	5776.7	5651.6	5308.4	5009.7	4815.9	4731.2	4698.9	4670.6	4650.4	4646.4
15°	6079.5	6022.9	5663.7	5163.1	4828.0	4666.6	4606.0	4593.9	4561.6	4561.6	4557.6
17.5°	6378.2	6232.9	5655.6	5009.7	4654.5	4565.6	4529.3	4521.2	4513.2	4509.1	4521.2
20°	6676.9	6418.6	5591.0	4820.0	4533.4	4480.9	4472.8	4476.8	4468.8	4480.9	4472.8
22.5°	6939.3	6539.7	5469.9	4618.1	4448.6	4444.5	4424.4	4432.4	4460.7	4464.7	4476.8
25°	7141.1	6584.1	5292.3	4432.4	4388.0	4380.0	4404.2	4436.5	4460.7	4464.7	4484.9
27.5°	7306.7	6559.8	5070.3	4287.1	4283.1	4327.5	4400.1	4412.2	4416.3	4416.3	4400.1
30°	7431.8	6507.4	4787.7	4125.6	4145.8	4254.8	4323.4	4323.4	4291.1	4283.1	4307.3
32.5°	7460.1	6438.7	4480.9	3960.1	3992.4	4121.6	4206.4	4178.1	4141.8	4141.8	4157.9
35°	7484.3	6345.9	4234.6	3734.1	3782.5	3935.9	4016.6	3960.1	3919.8	3907.6	3903.6
37.5°	7476.2	6309.6	4012.6	3447.4	3512.0	3661.4	3713.9	3661.4	3600.8	3572.6	3608.9
40°	7484.3	6285.3	3734.1	3132.6	3197.2	3286.0	3354.6	3314.2	3257.7	3185.1	3221.4
42.5°	7532.7	6317.6	3427.3	2825.8	2825.8	2874.2	2991.3	2963.0	2825.8	2797.5	2829.8
45°	7791.1	6491.2	3120.5	2519.0	2474.6	2506.9	2628.0	2506.9	2422.1	2422.1	2450.4
47.5°	8416.8	6814.2	2850.0	2248.5	2143.6	2208.1	2240.4	2127.4	2062.8	2046.7	2074.9
50°	9692.4	7460.1	2688.5	2026.5	1897.3	1945.7	1925.6	1921.5	1856.9	1865.0	1881.2
52.5°	11630.1	8719.5	2640.1	1917.5	1756.0	1768.1	1747.9	1756.0	1743.9	1784.3	1796.4
55°	13741.3	10047.7	2700.6	1933.6	1659.1	1574.4	1582.4	1622.8	1671.2	1735.8	1747.9
57.5°	15319.7	10713.7	2858.1	2042.6	1538.0	1408.9	1429.0	1505.7	1598.6	1651.1	1679.3
60°	16494.5	10633.0	3088.2	2070.9	1392.7	1259.5	1295.8	1408.9	1489.6	1534.0	1562.3
62.5°	16878.0	10128.4	3144.7	1865.0	1203.0	1118.2	1207.0	1324.1	1360.4	1408.9	1429.0
65°	16563.1	9413.9	2732.9	1513.8	1057.6	1013.2	1142.4	1231.2	1279.7	1303.9	1307.9
66°	16191.7	8986.0	2510.9	1376.6	1005.2	980.9	1118.2	1190.9	1239.3	1235.3	1239.3
67.5°	15376.3	8089.8	2151.6	1182.8	928.5	932.5	1077.8	1126.3	1142.4	1130.3	1130.3
70°	12603.0	5696.0	1542.1	896.2	815.4	872.0	968.8	980.9	1017.3	1001.1	1001.1
72.5°	7770.9	2797.5	1033.4	686.3	726.6	815.4	811.4	851.8	936.5	960.8	976.9
75°	3818.8	1134.3	682.2	581.3	649.9	682.2	674.1	775.1	896.2	1001.1	1037.5
77.5°	1449.2	565.2	476.3	508.6	524.8	512.7	536.9	702.4	896.2	1085.9	1122.2
80°	448.1	391.6	375.4	419.8	395.6	375.4	403.7	581.3	758.9	823.5	823.5
82.5°	270.5	306.8	290.7	286.6	266.4	270.5	290.7	415.8	585.3	613.6	613.6
85°	189.7	201.8	165.5	157.4	153.4	149.4	149.4	242.2	347.2	343.1	355.2
87.5°	72.7	80.7	60.6	60.6	56.5	40.4	32.3	40.4	40.4	28.3	20.2
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)