

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: P1210559

Luminaire Tested: **ARCH3-160-730-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210559
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: ARCH3-160-730-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

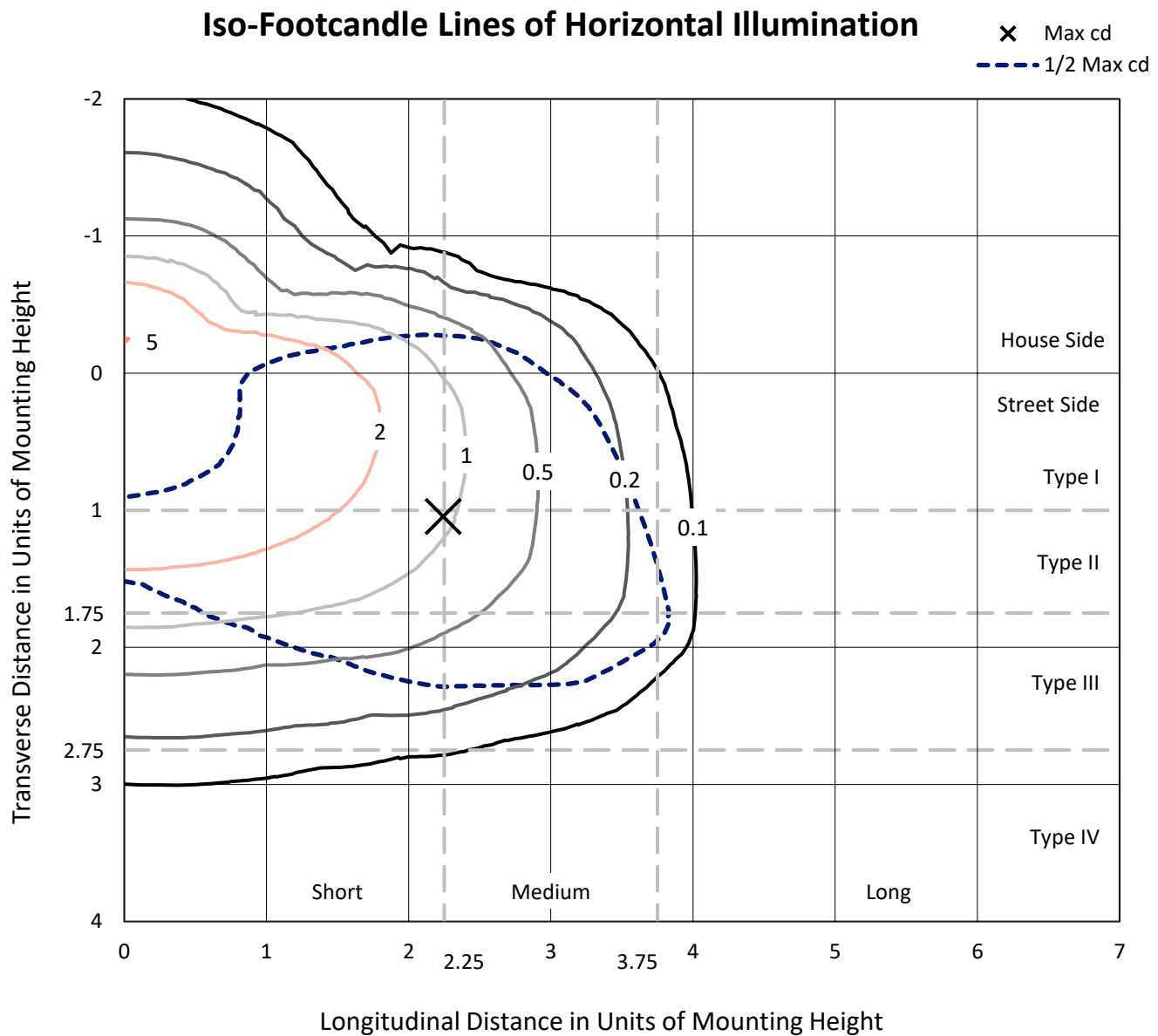
Lumens per Lamp: N/A
Luminaire Lumens: 21589 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 161
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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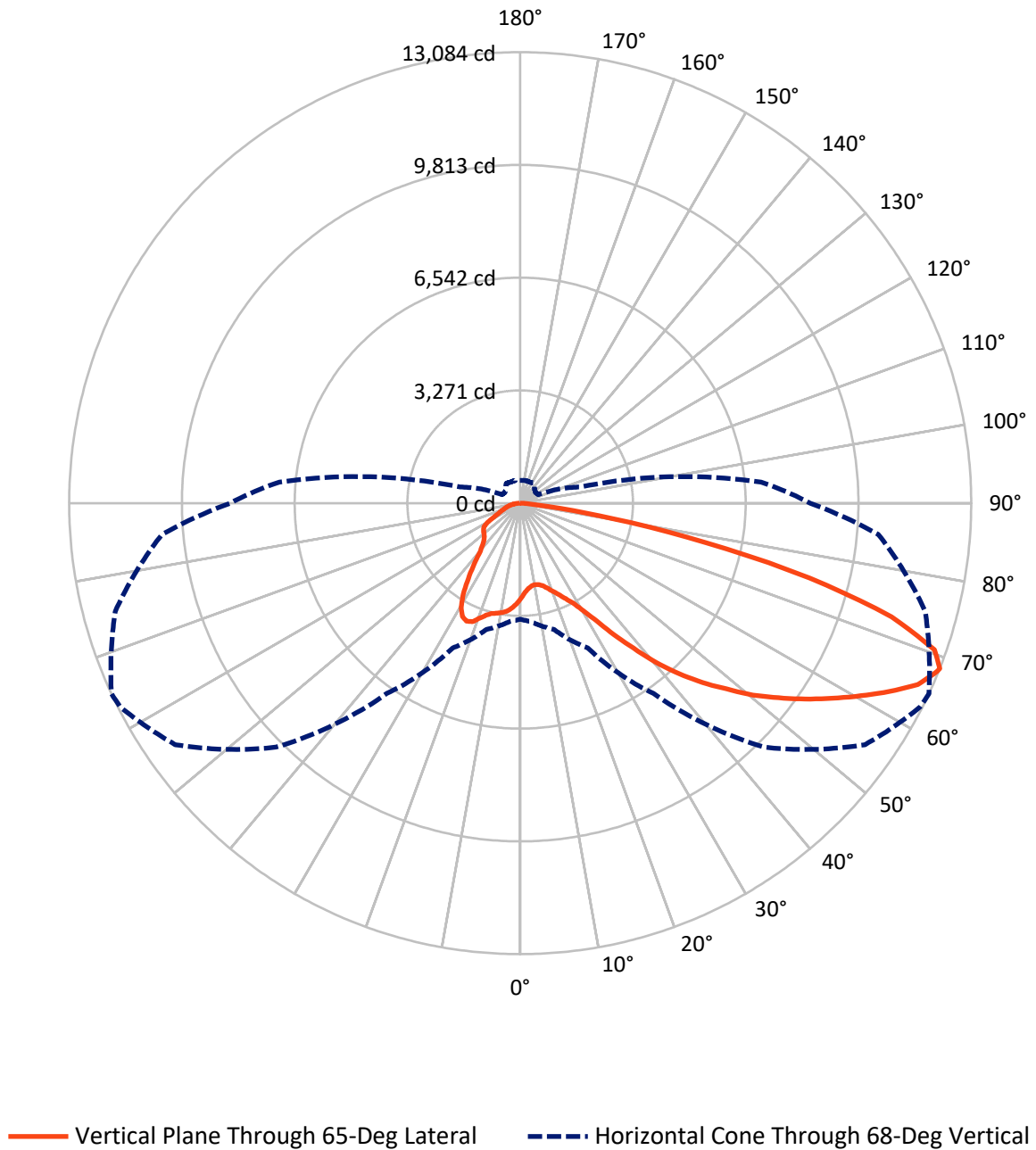


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5293.0	0.0	5293.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	16296.0	0.0	16296.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	21589.0	0.0	21589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.7	1.2
10°-20°	858.5	4.0
20°-30°	1553.8	7.2
30°-40°	2444.2	11.3
40°-50°	3640.4	16.9
50°-60°	4775.5	22.1
60°-70°	5222.3	24.2
70°-80°	2584.2	12.0
80°-90°	246.5	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°	21589.0	100.0
0°-180°	21589.0	100.0

Coefficient of Utilization



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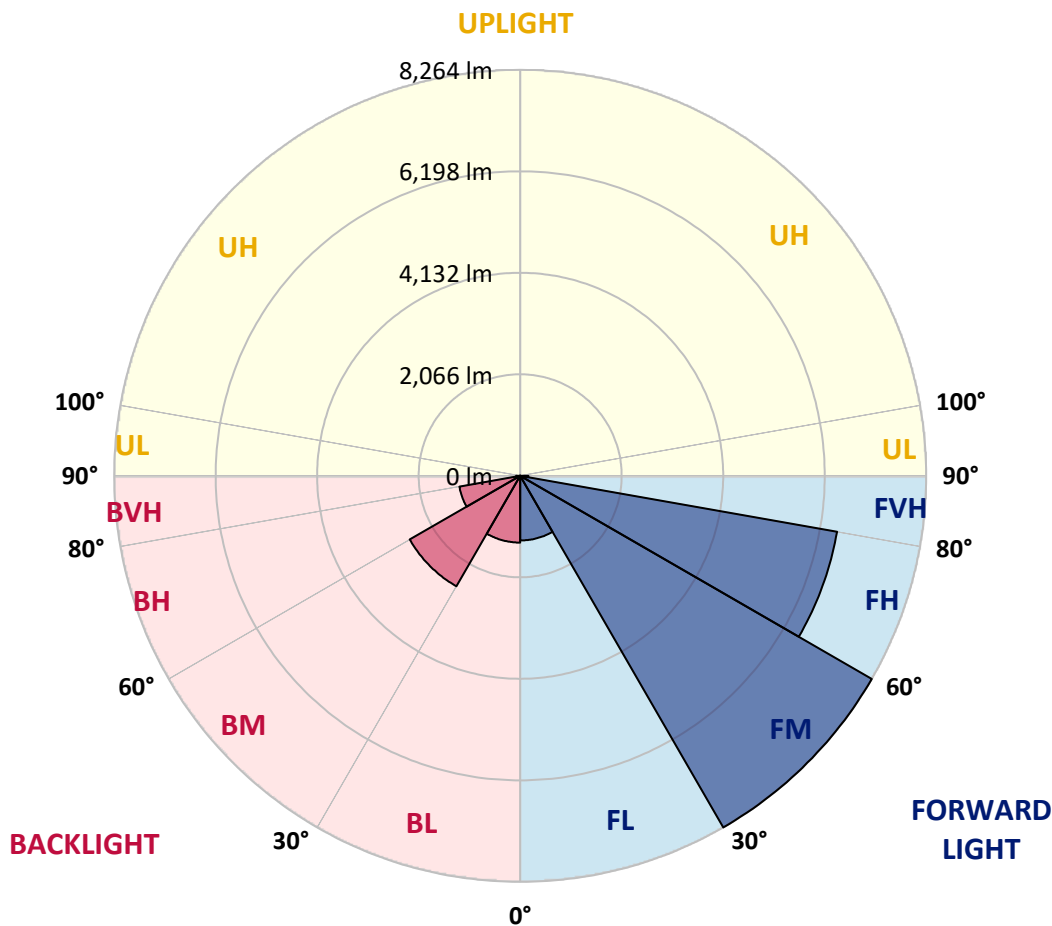
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.1	6.1			
FM	(30°-60°)	8264.0	38.3			
FH	(60°-80°)	6550.2	30.3			G3/7500
FVH	(80°-90°)	165.8	0.8			G2/225
BL	(0°-30°)	1359.8	6.3	B3/2500		
BM	(30°-60°)	2596.2	12.0	B3/5000		
BH	(60°-80°)	1256.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	80.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8
2.5°	2408.0	2402.5	2416.4	2430.3	2460.9	2497.1	2547.2	2589.0	2594.6	2672.5	2733.8
5°	2266.1	2257.7	2271.6	2288.3	2302.3	2346.8	2399.7	2460.9	2486.0	2600.1	2731.0
7.5°	2280.0	2277.2	2282.8	2277.2	2277.2	2296.7	2332.9	2394.1	2422.0	2558.4	2744.9
10°	2360.7	2366.3	2369.1	2352.4	2335.7	2327.3	2338.4	2380.2	2399.7	2561.2	2806.1
12.5°	2494.3	2502.7	2505.5	2474.9	2452.6	2416.4	2396.9	2413.6	2427.5	2589.0	2892.4
15°	2675.3	2680.9	2661.4	2641.9	2586.2	2541.7	2494.3	2480.4	2486.0	2647.5	2989.9
17.5°	2886.9	2878.5	2878.5	2831.2	2758.8	2689.2	2611.3	2600.1	2600.1	2742.1	3129.1
20°	3117.9	3126.3	3101.2	3037.2	2964.8	2856.2	2778.3	2728.2	2733.8	2850.7	3298.9
22.5°	3452.0	3465.9	3399.1	3307.2	3195.9	3070.6	2959.3	2878.5	2881.3	2992.7	3474.3
25°	3811.1	3816.7	3774.9	3652.4	3502.1	3323.9	3176.4	3073.4	3070.6	3151.3	3699.8
27.5°	4178.6	4203.6	4120.1	4003.2	3864.0	3641.3	3446.4	3307.2	3285.0	3393.5	3980.9
30°	4557.2	4587.8	4507.1	4392.9	4220.3	4031.0	3800.0	3638.5	3624.6	3769.4	4356.8
32.5°	4938.6	4946.9	4882.9	4788.3	4632.4	4454.2	4267.7	4089.5	4075.6	4312.2	4843.9
35°	5250.4	5275.4	5230.9	5208.6	5094.5	4930.2	4749.3	4646.3	4682.5	4985.9	5475.9
37.5°	5626.2	5651.2	5601.1	5595.6	5559.4	5417.4	5292.1	5300.5	5336.7	5748.7	6141.2
40°	6169.0	6196.9	6068.8	6013.2	6013.2	5874.0	5832.2	6029.9	6077.2	6500.3	6834.4
42.5°	6628.4	6672.9	6597.8	6561.6	6453.0	6355.6	6405.7	6684.1	6764.8	7218.6	7438.5
45°	6851.1	6884.5	6973.6	7079.4	6973.6	6803.8	6993.1	7307.6	7421.8	7881.1	8042.6
47.5°	6970.8	7001.4	7104.4	7388.4	7460.8	7318.8	7586.0	7978.6	8056.5	8538.1	8618.9
50°	6987.5	7084.9	7218.6	7502.5	7833.8	7853.3	8181.8	8660.6	8752.5	9184.0	9125.5
52.5°	6851.1	6890.1	7165.7	7644.5	8012.0	8346.0	8830.4	9314.8	9381.6	9790.9	9573.7
55°	6628.4	6684.1	6959.7	7611.1	8184.6	8813.7	9490.2	9957.9	10033.1	10381.0	9988.5
57.5°	6427.9	6455.8	6750.9	7513.7	8357.2	9281.4	10077.6	10628.8	10678.9	10898.8	10294.7
60°	6205.2	6235.9	6531.0	7304.9	8485.2	9635.0	10690.0	11305.3	11349.8	11444.5	10651.1
62.5°	5629.0	5709.7	6080.0	6959.7	8451.8	10038.6	11344.3	11973.4	12029.1	11926.1	10932.2
65°	4571.1	4685.2	5139.0	6177.4	8140.0	10300.3	11878.8	12588.6	12683.3	12288.0	11007.4
67.5°	3549.4	3630.2	3994.8	4902.4	7046.0	10169.5	12224.0	13011.8	13039.6	12229.5	10589.8
68°	3365.7	3446.4	3794.4	4635.1	6742.5	10013.6	12215.6	13022.9	13084.2	12165.5	10428.4
70°	2575.1	2666.9	2998.2	3671.9	5434.1	9022.5	11706.2	12755.7	12747.3	11391.6	9426.2
72.5°	1609.1	1662.0	1890.2	2316.2	3594.0	6865.0	9935.6	11249.6	11271.9	9287.0	7229.7
75°	1021.7	1021.7	1010.5	1121.9	1842.9	3911.3	7385.6	8660.6	8677.3	6503.1	4557.2
77.5°	888.1	863.0	743.3	629.2	734.9	1520.0	4370.7	5592.8	5500.9	3502.1	2163.1
80°	748.9	707.1	609.7	506.7	473.3	476.0	1678.7	2839.5	2717.1	1261.1	718.2
82.5°	540.1	503.9	459.3	398.1	364.7	284.0	350.8	821.2	801.8	364.7	233.8
85°	292.3	264.5	258.9	261.7	219.9	175.4	147.5	181.0	181.0	158.7	133.6
87.5°	103.0	75.2	89.1	100.2	86.3	72.4	58.5	69.6	72.4	69.6	64.0
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°	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8	2758.8
2.5°	2769.9	2797.8	2864.6	2923.1	2964.8	3001.0	3020.5	3028.8	3048.3	3051.1	3045.5
5°	2792.2	2864.6	2964.8	3051.1	3098.4	3117.9	3123.5	3126.3	3117.9	3123.5	3117.9
7.5°	2850.7	2942.5	3084.5	3159.7	3168.0	3137.4	3140.2	3129.1	3140.2	3151.3	3151.3
10°	2939.8	3056.7	3190.3	3218.1	3182.0	3165.3	3198.7	3265.5	3287.7	3318.4	3318.4
12.5°	3056.7	3195.9	3290.5	3265.5	3232.1	3287.7	3385.2	3452.0	3474.3	3485.4	3477.0
15°	3190.3	3340.6	3388.0	3304.4	3365.7	3485.4	3518.8	3479.8	3424.2	3399.1	3413.0
17.5°	3360.1	3485.4	3457.6	3401.9	3541.1	3557.8	3449.2	3323.9	3234.9	3201.4	3223.7
20°	3538.3	3646.9	3518.8	3543.9	3630.2	3452.0	3246.0	3084.5	3006.6	2992.7	3014.9
22.5°	3727.6	3797.2	3580.1	3708.1	3580.1	3218.1	2970.4	2886.9	2867.4	2889.7	2909.1
25°	3942.0	3933.6	3685.8	3758.2	3393.5	2931.4	2783.9	2778.3	2778.3	2792.2	2820.1
27.5°	4184.2	4053.3	3791.6	3691.4	3070.6	2694.8	2666.9	2669.7	2661.4	2664.2	2678.1
30°	4465.3	4214.8	3908.5	3471.5	2708.7	2516.6	2505.5	2497.1	2477.6	2472.1	2477.6
32.5°	4818.9	4384.6	4028.3	3109.6	2391.3	2332.9	2327.3	2282.8	2235.4	2229.9	2249.4
35°	5267.1	4693.6	4089.5	2655.8	2129.7	2126.9	2107.4	2037.8	1976.5	1976.5	1962.6
37.5°	5779.3	5091.7	4114.6	2213.2	1912.5	1926.4	1870.8	1781.7	1734.3	1706.5	1714.9
40°	6302.7	5545.5	4111.8	1826.2	1723.2	1726.0	1684.2	1575.7	1458.7	1389.1	1405.9
42.5°	6806.6	5957.5	4039.4	1620.2	1570.1	1561.7	1528.3	1380.8	1283.4	1227.7	1230.5
45°	7210.2	6383.4	3928.0	1497.7	1430.9	1444.8	1369.7	1280.6	1191.5	1141.4	1138.6
47.5°	7613.9	6706.3	3749.9	1422.6	1327.9	1302.8	1272.2	1211.0	1144.2	1088.5	1091.3
50°	7981.3	6981.9	3582.8	1372.4	1233.3	1169.2	1174.8	1138.6	1080.1	1030.0	1027.2
52.5°	8240.2	7162.9	3491.0	1344.6	1119.1	1049.5	1069.0	1049.5	993.8	957.7	954.9
55°	8499.1	7302.1	3521.6	1308.4	993.8	938.2	971.6	966.0	935.4	924.2	927.0
57.5°	8707.9	7407.9	3630.2	1241.6	874.1	840.7	896.4	879.7	857.4	860.2	860.2
60°	8911.2	7544.3	3758.2	1088.5	771.1	773.9	826.8	796.2	782.3	807.3	810.1
62.5°	9122.7	7691.8	3652.4	865.8	682.0	701.5	762.8	737.7	743.3	779.5	790.6
65°	9097.7	7677.9	2976.0	709.9	604.1	643.1	734.9	726.6	729.4	743.3	748.9
67.5°	8585.4	7187.9	2046.1	604.1	548.4	595.7	712.7	679.3	682.0	673.7	676.5
68°	8412.8	7015.3	1803.9	587.4	537.3	584.6	701.5	670.9	673.7	665.3	662.6
70°	7471.9	6007.6	1141.4	517.8	498.3	554.0	645.9	634.7	631.9	626.4	626.4
72.5°	5695.8	4434.7	601.3	448.2	453.8	506.7	576.3	598.5	584.6	587.4	604.1
75°	3772.1	2666.9	417.6	384.2	398.1	434.3	512.2	556.8	542.9	551.2	542.9
77.5°	1996.0	1436.5	334.1	325.7	325.7	350.8	423.1	492.7	492.7	487.2	478.8
80°	654.2	506.7	267.3	256.1	261.7	275.6	339.6	403.7	412.0	400.9	395.3
82.5°	219.9	233.8	200.4	186.5	192.1	203.2	256.1	309.0	311.8	289.5	284.0
85°	136.4	155.9	125.3	122.5	122.5	125.3	155.9	169.8	155.9	139.2	144.8
87.5°	64.0	77.9	58.5	50.1	41.8	36.2	27.8	11.1	11.1	5.6	5.6
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)