

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: P1210635

Luminaire Tested: **ARCH3-180-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210635
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: ARCH3-180-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

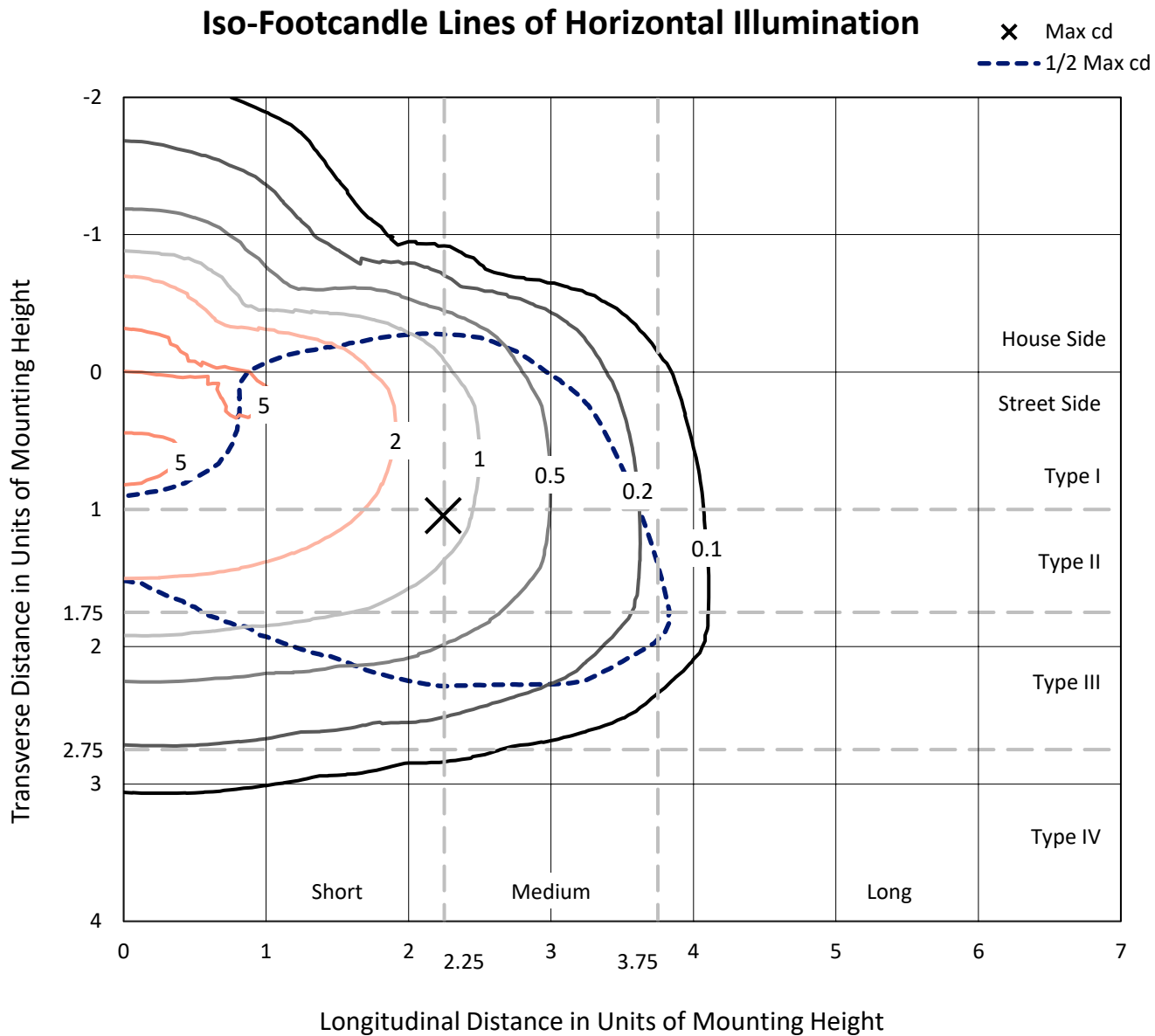
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24369 lumens
Efficiency: N/A
Efficacy: 135.0 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): 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



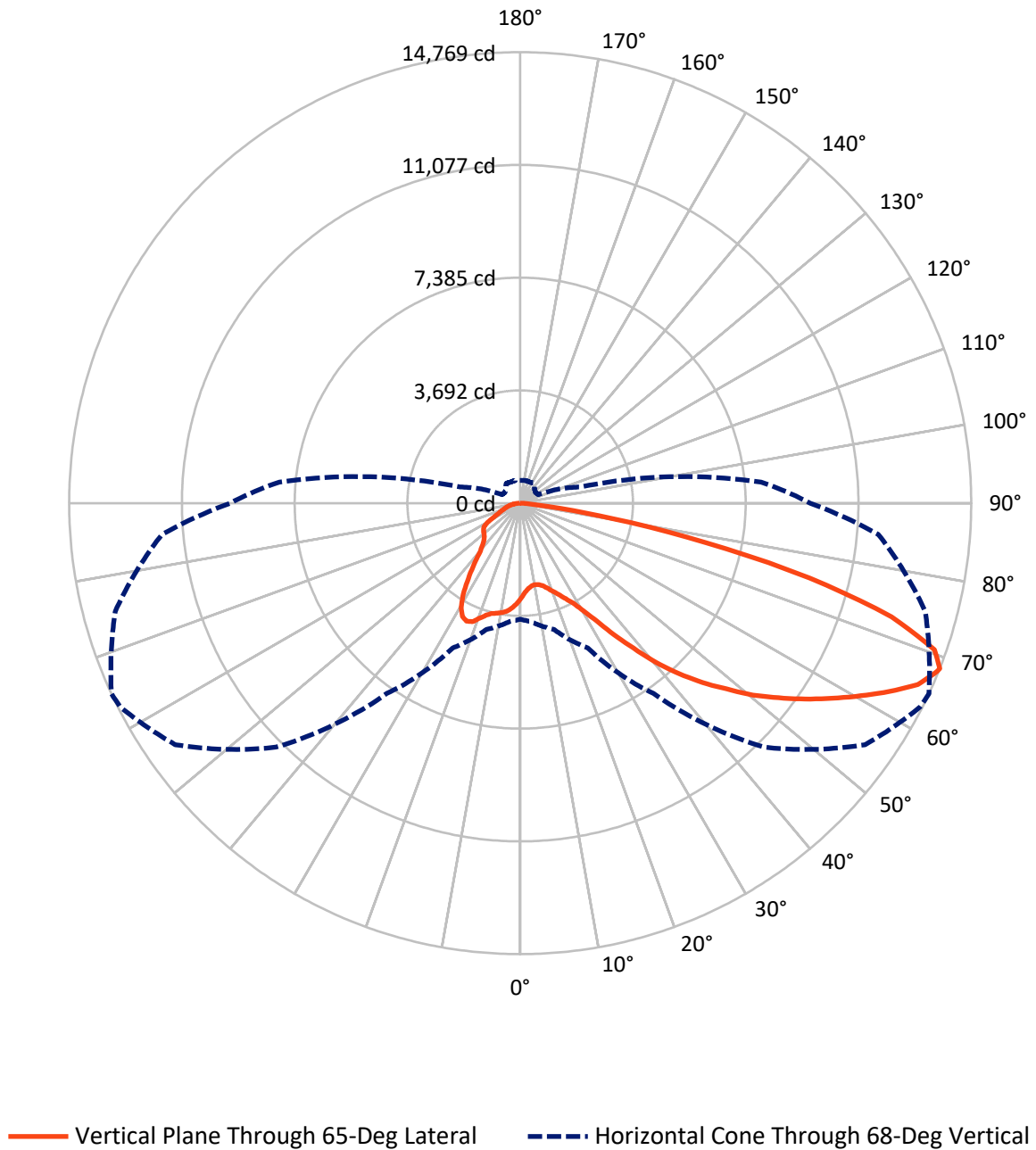
REPORT NUMBER: P1210635
CATALOG NUMBER: ARCH3-180-750-U-T3RE



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	5974.6	0.0	5974.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	18394.5	0.0	18394.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	24369.0	0.0	24369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	1.2
10°-20°	969.0	4.0
20°-30°	1753.8	7.2
30°-40°	2759.0	11.3
40°-50°	4109.2	16.9
50°-60°	5390.4	22.1
60°-70°	5894.8	24.2
70°-80°	2916.9	12.0
80°-90°	278.2	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°	24369.0	100.0
0°-180°	24369.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210635

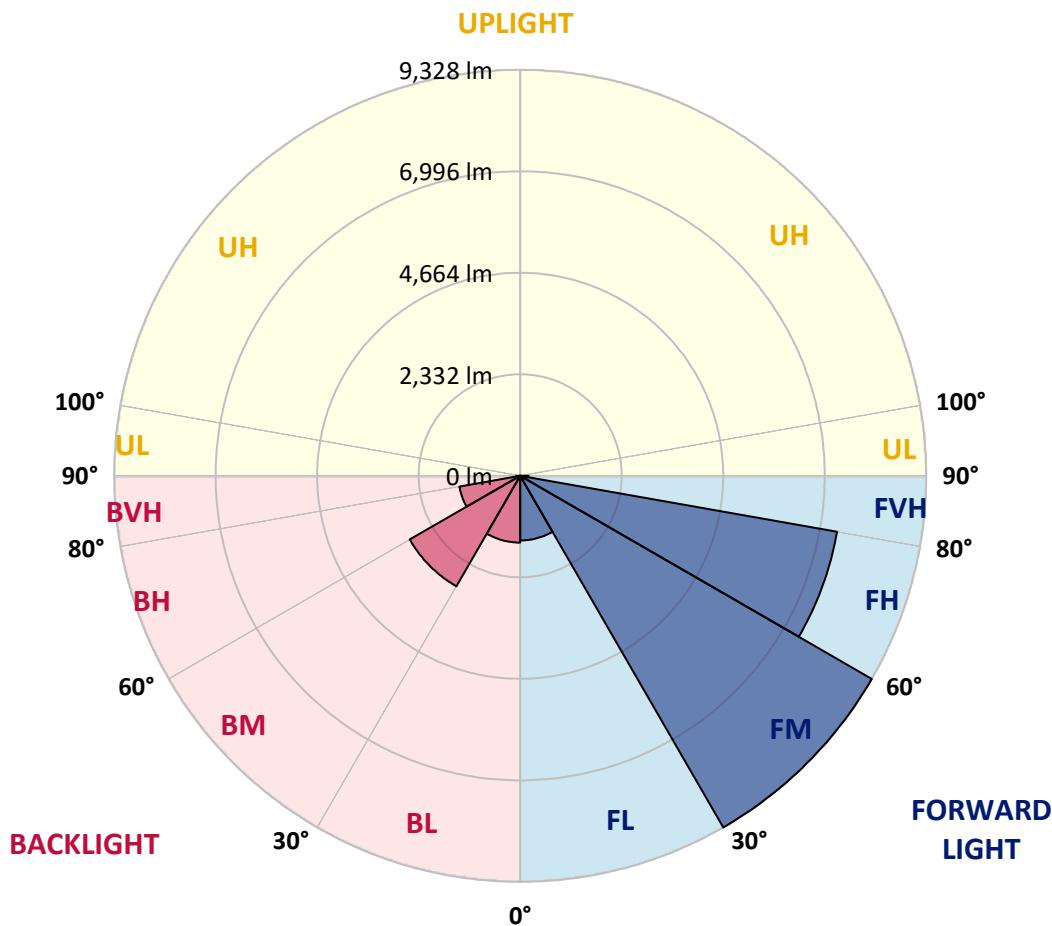
CATALOG NUMBER: ARCH3-180-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.6	6.1			
FM	(30°-60°)	9328.1	38.3			
FH	(60°-80°)	7393.6	30.3			G3/7500
FVH	(80°-90°)	187.1	0.8			G2/225
BL	(0°-30°)	1534.9	6.3	B3/2500		
BM	(30°-60°)	2930.5	12.0	B3/5000		
BH	(60°-80°)	1418.1	5.8	B3/2500		G3/2500
BVH	(80°-90°)	91.1	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



REPORT NUMBER: P1210635

CATALOG NUMBER: ARCH3-180-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1
2.5°	2718.1	2711.8	2727.6	2743.3	2777.8	2818.7	2875.2	2922.4	2928.7	3016.6	3085.8
5°	2557.9	2548.4	2564.2	2583.0	2598.7	2649.0	2708.7	2777.8	2806.1	2934.9	3082.6
7.5°	2573.6	2570.4	2576.7	2570.4	2570.4	2592.4	2633.3	2702.4	2733.8	2887.8	3098.4
10°	2664.7	2671.0	2674.1	2655.3	2636.4	2627.0	2639.6	2686.7	2708.7	2891.0	3167.5
12.5°	2815.5	2825.0	2828.1	2793.5	2768.4	2727.6	2705.6	2724.4	2740.1	2922.4	3264.9
15°	3019.8	3026.1	3004.1	2982.1	2919.2	2869.0	2815.5	2799.8	2806.1	2988.4	3374.9
17.5°	3258.6	3249.2	3249.2	3195.8	3114.1	3035.5	2947.5	2934.9	2934.9	3095.2	3532.0
20°	3519.4	3528.9	3500.6	3428.3	3346.6	3224.0	3136.1	3079.5	3085.8	3217.8	3723.7
22.5°	3896.5	3912.2	3836.8	3733.1	3607.4	3466.0	3340.3	3249.2	3252.3	3378.0	3921.6
25°	4301.9	4308.2	4261.0	4122.8	3953.1	3752.0	3585.4	3469.1	3466.0	3557.1	4176.2
27.5°	4716.7	4744.9	4650.7	4518.7	4361.6	4110.2	3890.2	3733.1	3708.0	3830.5	4493.6
30°	5144.0	5178.6	5087.5	4958.6	4763.8	4550.1	4289.3	4107.0	4091.3	4254.7	4917.8
32.5°	5574.5	5583.9	5511.7	5404.8	5228.9	5027.7	4817.2	4616.1	4600.4	4867.5	5467.7
35°	5926.5	5954.7	5904.5	5879.3	5750.5	5565.1	5360.8	5244.6	5285.4	5627.9	6181.0
37.5°	6350.7	6379.0	6322.4	6316.1	6275.3	6115.0	5973.6	5983.0	6023.9	6488.9	6932.0
40°	6963.4	6994.9	6850.3	6787.5	6787.5	6630.3	6583.2	6806.3	6859.7	7337.4	7714.5
42.5°	7481.9	7532.2	7447.4	7406.5	7284.0	7174.0	7230.5	7544.8	7635.9	8148.1	8396.3
45°	7733.3	7771.0	7871.6	7991.0	7871.6	7679.9	7893.6	8248.7	8377.5	8896.0	9078.2
47.5°	7868.4	7903.0	8019.3	8339.8	8421.5	8261.2	8562.9	9006.0	9093.9	9637.6	9728.7
50°	7887.3	7997.3	8148.1	8468.6	8842.6	8864.5	9235.3	9775.8	9879.5	10366.6	10300.6
52.5°	7733.3	7777.3	8088.4	8628.9	9043.7	9420.7	9967.5	10514.3	10589.7	11051.6	10806.5
55°	7481.9	7544.8	7855.9	8591.2	9238.5	9948.7	10712.2	11240.2	11325.0	11717.8	11274.7
57.5°	7255.7	7287.1	7620.2	8481.2	9433.3	10476.6	11375.3	11997.5	12054.0	12302.3	11620.4
60°	7004.3	7038.8	7371.9	8245.5	9577.9	10875.6	12066.6	12761.1	12811.3	12918.2	12022.6
62.5°	6353.8	6444.9	6862.9	7855.9	9540.2	11331.3	12805.0	13515.2	13578.1	13461.8	12340.0
65°	5159.7	5288.6	5800.8	6972.9	9188.2	11626.7	13408.4	14209.7	14316.5	13870.3	12424.8
67.5°	4006.5	4097.6	4509.3	5533.7	7953.3	11479.0	13798.0	14687.3	14718.7	13804.3	11953.5
68°	3799.1	3890.2	4283.0	5232.0	7610.8	11303.0	13788.6	14699.9	14769.0	13732.0	11771.2
70°	2906.7	3010.4	3384.3	4144.8	6133.9	10184.3	13213.6	14398.2	14388.8	12858.5	10640.0
72.5°	1816.3	1876.0	2133.7	2614.4	4056.8	7749.0	11215.0	12698.2	12723.3	10482.9	8160.7
75°	1153.2	1153.2	1140.7	1266.4	2080.2	4415.0	8336.6	9775.8	9794.7	7340.5	5144.0
77.5°	1002.4	974.1	839.0	710.2	829.6	1715.7	4933.5	6313.0	6209.3	3953.1	2441.6
80°	845.3	798.2	688.2	571.9	534.2	537.3	1894.8	3205.2	3066.9	1423.5	810.7
82.5°	609.6	568.8	518.5	449.4	411.6	320.5	395.9	927.0	905.0	411.6	264.0
85°	329.9	298.5	292.2	295.4	248.2	198.0	166.5	204.3	204.3	179.1	150.8
87.5°	116.3	84.8	100.6	113.1	97.4	81.7	66.0	78.6	81.7	78.6	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210635

CATALOG NUMBER: ARCH3-180-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1	3114.1
2.5°	3126.6	3158.1	3233.5	3299.5	3346.6	3387.4	3409.4	3418.9	3440.9	3444.0	3437.7
5°	3151.8	3233.5	3346.6	3444.0	3497.4	3519.4	3525.7	3528.9	3519.4	3525.7	3519.4
7.5°	3217.8	3321.5	3481.7	3566.6	3576.0	3541.4	3544.6	3532.0	3544.6	3557.1	3557.1
10°	3318.3	3450.3	3601.1	3632.5	3591.7	3572.8	3610.6	3686.0	3711.1	3745.7	3745.7
12.5°	3450.3	3607.4	3714.2	3686.0	3648.3	3711.1	3821.1	3896.5	3921.6	3934.2	3924.8
15°	3601.1	3770.8	3824.2	3730.0	3799.1	3934.2	3971.9	3927.9	3865.1	3836.8	3852.5
17.5°	3792.8	3934.2	3902.8	3839.9	3997.1	4015.9	3893.4	3752.0	3651.4	3613.7	3638.8
20°	3993.9	4116.5	3971.9	4000.2	4097.6	3896.5	3664.0	3481.7	3393.7	3378.0	3403.2
22.5°	4207.6	4286.2	4041.1	4185.6	4041.1	3632.5	3352.9	3258.6	3236.6	3261.8	3283.7
25°	4449.6	4440.1	4160.5	4242.2	3830.5	3308.9	3142.3	3136.1	3136.1	3151.8	3183.2
27.5°	4722.9	4575.3	4279.9	4166.7	3466.0	3041.8	3010.4	3013.5	3004.1	3007.2	3022.9
30°	5040.3	4757.5	4411.8	3918.5	3057.5	2840.7	2828.1	2818.7	2796.7	2790.4	2796.7
32.5°	5439.4	4949.2	4547.0	3510.0	2699.3	2633.3	2627.0	2576.7	2523.3	2517.0	2539.0
35°	5945.3	5298.0	4616.1	2997.8	2403.9	2400.8	2378.8	2300.2	2231.1	2231.1	2215.4
37.5°	6523.5	5747.3	4644.4	2498.2	2158.8	2174.5	2111.7	2011.1	1957.7	1926.3	1935.7
40°	7114.3	6259.5	4641.2	2061.4	1945.1	1948.3	1901.1	1778.6	1646.6	1568.0	1586.9
42.5°	7683.0	6724.6	4559.5	1828.8	1772.3	1762.9	1725.1	1558.6	1448.6	1385.8	1388.9
45°	8138.7	7205.4	4433.8	1690.6	1615.2	1630.9	1546.0	1445.5	1344.9	1288.4	1285.2
47.5°	8594.3	7569.9	4232.7	1605.7	1498.9	1470.6	1436.1	1366.9	1291.5	1228.7	1231.8
50°	9009.1	7881.0	4044.2	1549.2	1392.1	1319.8	1326.1	1285.2	1219.2	1162.7	1159.5
52.5°	9301.3	8085.2	3940.5	1517.8	1263.2	1184.7	1206.7	1184.7	1121.8	1081.0	1077.8
55°	9593.6	8242.4	3975.1	1476.9	1121.8	1059.0	1096.7	1090.4	1055.8	1043.3	1046.4
57.5°	9829.2	8361.8	4097.6	1401.5	986.7	949.0	1011.8	993.0	967.8	971.0	971.0
60°	10058.6	8515.7	4242.2	1228.7	870.4	873.6	933.3	898.7	883.0	911.3	914.4
62.5°	10297.5	8682.3	4122.8	977.3	769.9	791.9	861.0	832.7	839.0	879.9	892.4
65°	10269.2	8666.6	3359.2	801.3	681.9	725.9	829.6	820.2	823.3	839.0	845.3
67.5°	9691.0	8113.5	2309.6	681.9	619.0	672.5	804.4	766.7	769.9	760.4	763.6
68°	9496.2	7918.7	2036.2	663.0	606.5	659.9	791.9	757.3	760.4	751.0	747.9
70°	8434.0	6781.2	1288.4	584.5	562.5	625.3	729.0	716.5	713.3	707.0	707.0
72.5°	6429.2	5005.8	678.7	505.9	512.2	571.9	650.5	675.6	659.9	663.0	681.9
75°	4257.9	3010.4	471.4	433.6	449.4	490.2	578.2	628.5	612.8	622.2	612.8
77.5°	2253.1	1621.4	377.1	367.7	367.7	395.9	477.6	556.2	556.2	549.9	540.5
80°	738.5	571.9	301.7	289.1	295.4	311.1	383.4	455.6	465.1	452.5	446.2
82.5°	248.2	264.0	226.2	210.5	216.8	229.4	289.1	348.8	351.9	326.8	320.5
85°	154.0	176.0	141.4	138.3	138.3	141.4	176.0	191.7	176.0	157.1	163.4
87.5°	72.3	88.0	66.0	56.6	47.1	40.9	31.4	12.6	12.6	6.3	6.3
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)