

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: P1211005

Luminaire Tested: **ARCH4-140-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211005
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: ARCH4-140-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22630 lumens
Efficiency: N/A
Efficacy: 160.2 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): 141.3
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



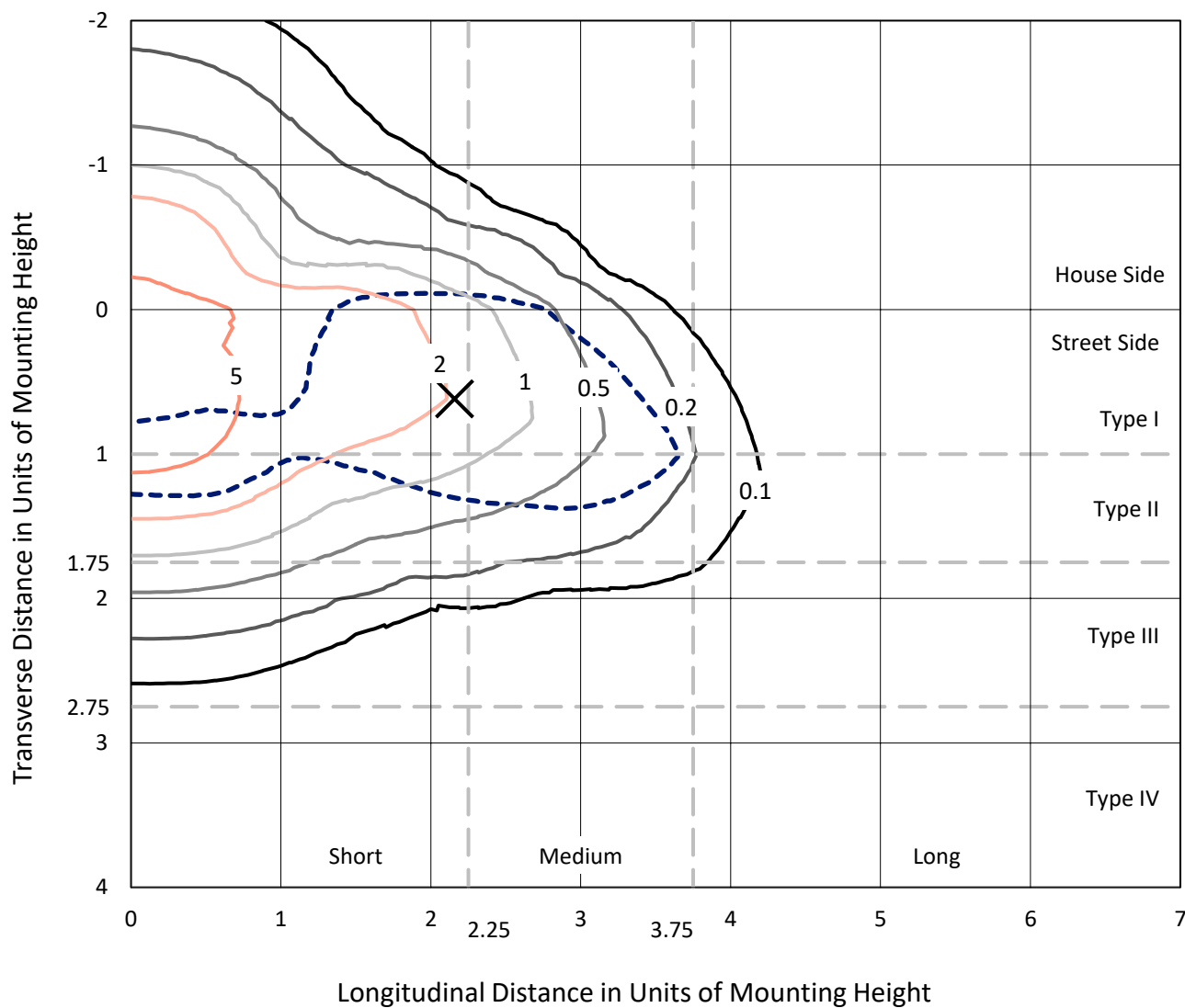
REPORT NUMBER: P1211005

CATALOG NUMBER: ARCH4-140-730-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

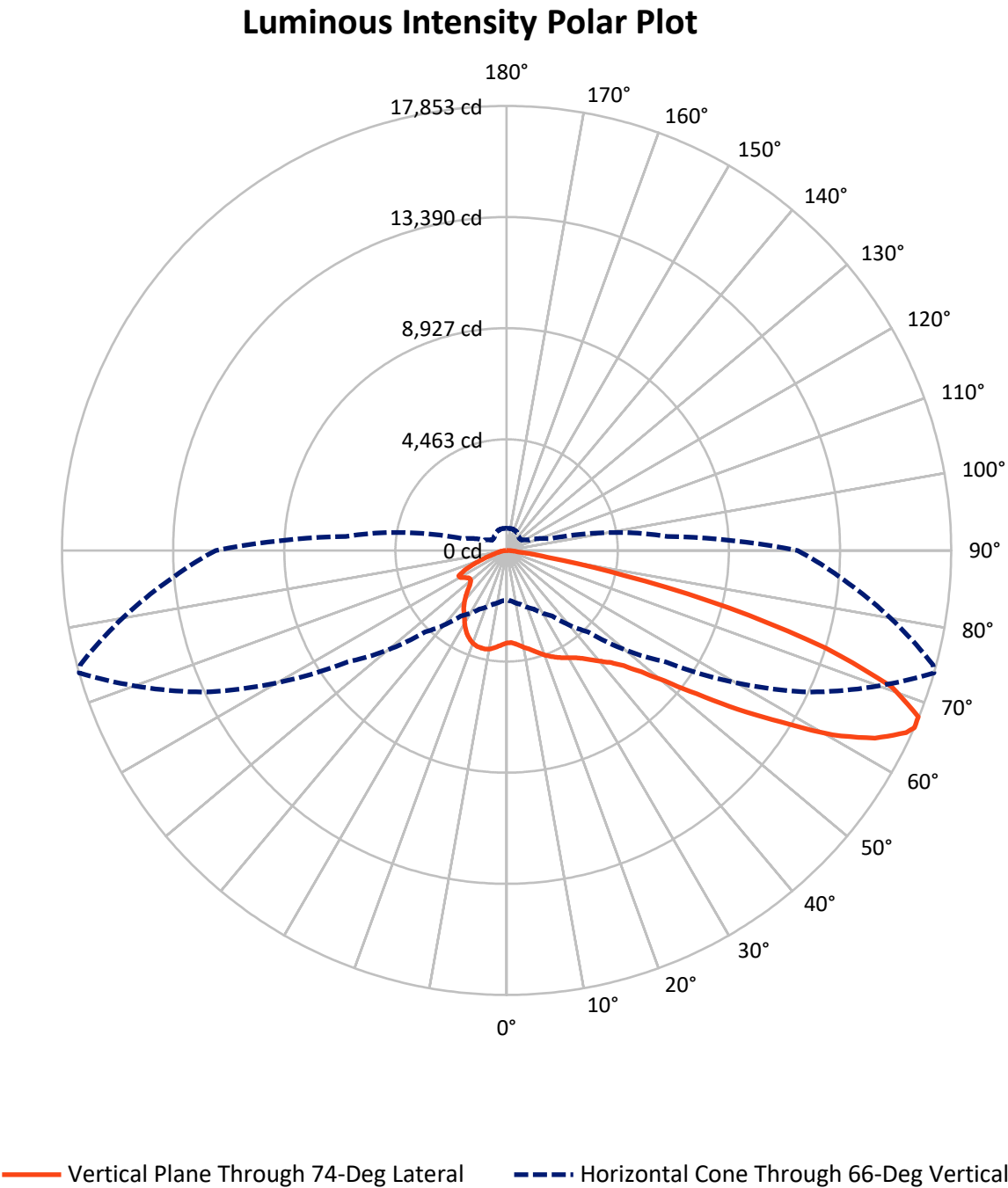
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

REPORT NUMBER: P1211005
CATALOG NUMBER: ARCH4-140-730-U-T2RE



REPORT NUMBER: P1211005

CATALOG NUMBER: ARCH4-140-730-U-T2RE

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5511.0	0.0	5511.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	17119.0	0.0	17119.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	22630.0	0.0	22630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.9	1.6
10°-20°	1088.3	4.8
20°-30°	2042.1	9.0
30°-40°	3141.3	13.9
40°-50°	4225.3	18.7
50°-60°	4996.9	22.1
60°-70°	4622.4	20.4
70°-80°	1944.6	8.6
80°-90°	215.2	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°	22630.0	100.0
0°-180°	22630.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211005

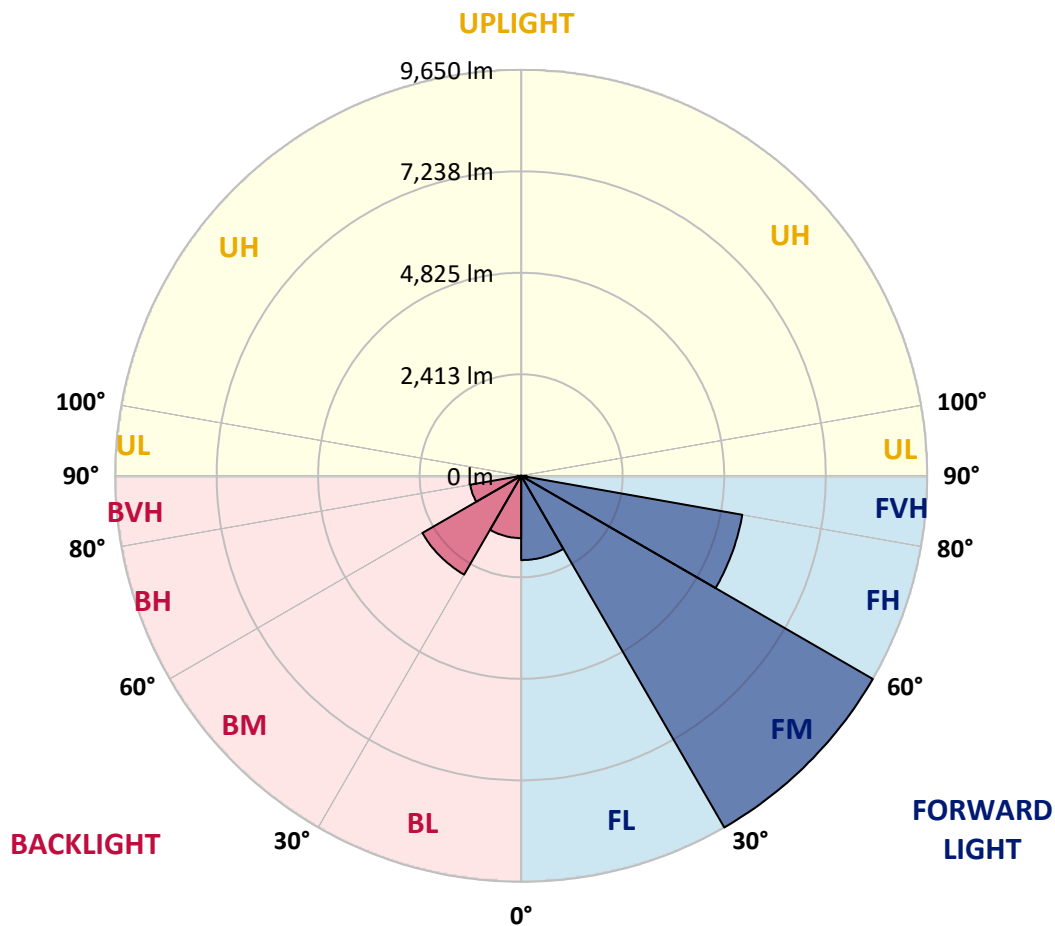
CATALOG NUMBER: ARCH4-140-730-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2003.0	8.9			
FM	(30°-60°)	9650.4	42.6			
FH	(60°-80°)	5336.8	23.6			G3/7500
FVH	(80°-90°)	128.7	0.6			G2/225
BL	(0°-30°)	1481.2	6.5	B3/2500		
BM	(30°-60°)	2713.1	12.0	B3/5000		
BH	(60°-80°)	1230.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	86.4	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



REPORT NUMBER: P1211005

CATALOG NUMBER: ARCH4-140-730-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8
2.5°	3698.2	3692.3	3704.0	3721.5	3730.2	3715.6	3709.8	3706.9	3706.9	3698.2	3712.7
5°	3523.4	3520.5	3546.7	3578.8	3639.9	3683.6	3741.8	3776.8	3765.1	3747.7	3759.3
7.5°	3296.3	3290.5	3322.5	3383.7	3468.1	3564.2	3706.9	3817.6	3861.2	3855.4	3852.5
10°	3383.7	3377.8	3374.9	3357.5	3386.6	3479.8	3628.3	3823.4	3971.9	3974.8	3977.7
12.5°	3686.5	3701.1	3686.5	3631.2	3567.1	3532.2	3619.5	3837.9	4065.1	4082.5	4155.3
15°	4100.0	4085.4	4056.3	3992.3	3893.3	3788.4	3724.4	3904.9	4199.0	4213.6	4373.7
17.5°	4464.0	4475.6	4458.2	4397.0	4280.5	4143.7	3948.6	4021.4	4341.7	4382.5	4606.7
20°	4860.0	4906.6	4883.3	4807.6	4711.5	4507.7	4263.1	4190.3	4498.9	4528.1	4848.4
22.5°	5317.2	5366.7	5323.0	5250.2	5171.6	4921.2	4606.7	4397.0	4630.0	4691.1	5081.3
25°	5864.6	5911.2	5870.5	5756.9	5657.9	5352.1	4976.5	4630.0	4758.1	4825.1	5270.6
27.5°	6298.5	6333.5	6371.3	6304.3	6152.9	5835.5	5360.9	4871.7	4886.2	4956.1	5445.3
30°	6685.8	6773.2	6805.2	6813.9	6685.8	6330.6	5754.0	5122.1	4996.9	5069.7	5620.0
32.5°	7215.8	7346.8	7294.4	7346.8	7271.1	6796.5	6161.7	5381.3	5139.6	5206.5	5786.0
35°	7990.4	8095.2	7958.3	7917.6	7795.3	7268.2	6554.8	5649.2	5328.8	5401.6	5943.3
37.5°	8823.2	8942.6	8744.6	8581.5	8348.5	7734.1	6892.6	6001.5	5590.9	5649.2	6088.9
40°	9551.2	9650.2	9478.4	9262.9	8872.7	8144.7	7183.8	6249.0	5853.0	5925.8	6257.8
42.5°	10223.8	10287.9	10095.7	9888.9	9367.7	8514.5	7498.2	6511.1	6158.7	6228.6	6394.6
45°	10905.2	10954.7	10686.8	10392.7	9781.2	8852.3	7844.8	6878.0	6607.2	6700.4	6615.9
47.5°	11027.5	11042.1	10995.5	10797.5	10107.3	9175.5	8272.8	7370.1	7291.5	7393.4	6997.4
50°	10180.1	10311.2	10599.5	10794.6	10238.4	9446.3	8700.9	8074.8	8235.0	8366.0	7789.4
52.5°	8534.9	8660.1	9326.9	10066.6	9923.9	9507.5	9161.0	8968.8	9565.7	9723.0	8866.9
55°	6799.4	6910.0	7614.7	8680.5	8907.6	9227.9	9653.1	10110.2	11263.4	11368.2	10049.1
57.5°	5599.7	5660.8	6164.6	7189.6	7553.6	8334.0	9918.1	11467.2	12990.2	13150.3	11077.0
60°	4592.1	4659.1	5034.7	5879.2	6362.6	7055.6	9708.4	12806.7	15051.8	15051.8	12396.1
62.5°	3456.5	3514.7	3864.1	4525.2	5337.6	5972.4	9038.7	13694.8	16606.8	16536.9	13351.2
65°	2373.2	2419.8	2673.2	3112.9	3843.8	5090.1	8124.3	13706.5	17637.6	17544.4	13758.9
66°	1991.8	2032.5	2248.0	2603.3	3217.7	4618.3	7801.1	13459.0	17853.1	17722.1	13587.1
67.5°	1572.4	1601.6	1744.3	1953.9	2358.7	3738.9	7291.5	12757.2	17832.7	17754.1	13150.3
70°	1124.0	1144.4	1249.2	1292.9	1394.8	2163.6	5791.8	11173.1	16402.9	16426.2	11432.3
72.5°	870.7	902.7	966.8	975.5	952.2	1150.2	3514.7	9321.1	13418.2	13409.5	8485.4
75°	701.8	719.2	751.3	768.8	762.9	742.5	1488.0	6953.7	9236.7	9344.4	4752.3
77.5°	553.3	550.4	579.5	602.8	620.2	582.4	681.4	4076.7	4842.6	4705.7	1785.0
80°	407.7	407.7	448.4	457.2	483.4	489.2	454.3	1572.4	1662.7	1511.3	463.0
82.5°	267.9	267.9	311.6	317.4	343.6	381.5	329.0	471.7	460.1	436.8	209.7
85°	145.6	139.8	154.3	174.7	189.3	224.2	198.0	235.9	241.7	238.8	139.8
87.5°	29.1	26.2	40.8	46.6	52.4	69.9	64.1	96.1	133.9	131.0	61.2
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: P1211005

CATALOG NUMBER: ARCH4-140-730-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8	3709.8
2.5°	3733.1	3730.2	3762.2	3800.1	3843.8	3870.0	3881.6	3902.0	3887.4	3893.3	3910.7
5°	3788.4	3797.2	3843.8	3893.3	3913.6	3899.1	3867.1	3855.4	3829.2	3823.4	3817.6
7.5°	3870.0	3884.5	3931.1	3942.8	3881.6	3779.7	3706.9	3666.1	3622.5	3610.8	3605.0
10°	4003.9	4012.7	4024.3	3904.9	3753.5	3616.6	3526.4	3488.5	3459.4	3436.1	3441.9
12.5°	4172.8	4167.0	4076.7	3829.2	3613.7	3473.9	3412.8	3389.5	3369.1	3354.6	3351.6
15°	4385.4	4344.6	4085.4	3724.4	3482.7	3366.2	3322.5	3313.8	3290.5	3290.5	3287.6
17.5°	4600.9	4496.0	4079.6	3613.7	3357.5	3293.4	3267.2	3261.4	3255.5	3252.6	3261.4
20°	4816.3	4630.0	4033.0	3476.9	3270.1	3232.3	3226.4	3229.3	3223.5	3232.3	3226.4
22.5°	5005.6	4717.3	3945.7	3331.3	3209.0	3206.0	3191.5	3197.3	3217.7	3220.6	3229.3
25°	5151.2	4749.4	3817.6	3197.3	3165.3	3159.5	3176.9	3200.2	3217.7	3220.6	3235.2
27.5°	5270.6	4731.9	3657.4	3092.5	3089.6	3121.6	3174.0	3182.7	3185.7	3185.7	3174.0
30°	5360.9	4694.0	3453.6	2976.0	2990.6	3069.2	3118.7	3118.7	3095.4	3089.6	3107.0
32.5°	5381.3	4644.5	3232.3	2856.6	2879.9	2973.1	3034.2	3013.9	2987.6	2987.6	2999.3
35°	5398.7	4577.6	3054.6	2693.5	2728.5	2839.1	2897.4	2856.6	2827.5	2818.8	2815.8
37.5°	5392.9	4551.4	2894.5	2486.8	2533.4	2641.1	2679.0	2641.1	2597.4	2577.1	2603.3
40°	5398.7	4533.9	2693.5	2259.7	2306.3	2370.3	2419.8	2390.7	2349.9	2297.5	2323.7
42.5°	5433.7	4557.2	2472.2	2038.4	2038.4	2073.3	2157.7	2137.4	2038.4	2018.0	2041.3
45°	5620.0	4682.4	2250.9	1817.0	1785.0	1808.3	1895.7	1808.3	1747.2	1747.2	1767.5
47.5°	6071.4	4915.4	2055.8	1621.9	1546.2	1592.8	1616.1	1534.6	1488.0	1476.4	1496.7
50°	6991.6	5381.3	1939.4	1461.8	1368.6	1403.6	1389.0	1386.1	1339.5	1345.3	1357.0
52.5°	8389.3	6289.8	1904.4	1383.2	1266.7	1275.4	1260.9	1266.7	1258.0	1287.1	1295.8
55°	9912.2	7247.8	1948.1	1394.8	1196.8	1135.7	1141.5	1170.6	1205.5	1252.1	1260.9
57.5°	11050.8	7728.3	2061.7	1473.4	1109.4	1016.3	1030.8	1086.2	1153.1	1191.0	1211.4
60°	11898.2	7670.0	2227.6	1493.8	1004.6	908.5	934.7	1016.3	1074.5	1106.5	1126.9
62.5°	12174.8	7306.1	2268.4	1345.3	867.8	806.6	870.7	955.1	981.3	1016.3	1030.8
65°	11947.7	6790.6	1971.4	1092.0	762.9	730.9	824.1	888.1	923.1	940.6	943.5
66°	11679.8	6482.0	1811.2	993.0	725.1	707.6	806.6	859.0	894.0	891.1	894.0
67.5°	11091.6	5835.5	1552.1	853.2	669.7	672.7	777.5	812.4	824.1	815.3	815.3
70°	9091.1	4108.7	1112.4	646.5	588.2	629.0	698.9	707.6	733.8	722.2	722.2
72.5°	5605.5	2018.0	745.5	495.0	524.1	588.2	585.3	614.4	675.6	693.0	704.7
75°	2754.7	818.3	492.1	419.3	468.8	492.1	486.3	559.1	646.5	722.2	748.4
77.5°	1045.4	407.7	343.6	366.9	378.6	369.8	387.3	506.7	646.5	783.3	809.5
80°	323.2	282.5	270.8	302.8	285.4	270.8	291.2	419.3	547.4	594.0	594.0
82.5°	195.1	221.3	209.7	206.7	192.2	195.1	209.7	299.9	422.2	442.6	442.6
85°	136.9	145.6	119.4	113.6	110.7	107.7	107.7	174.7	250.4	247.5	256.3
87.5°	52.4	58.2	43.7	43.7	40.8	29.1	23.3	29.1	29.1	20.4	14.6
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)