

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: P841258

Luminaire Tested: **ARCH4-150-740-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-150-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25968 lumens
Efficiency: N/A
Efficacy: 172.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

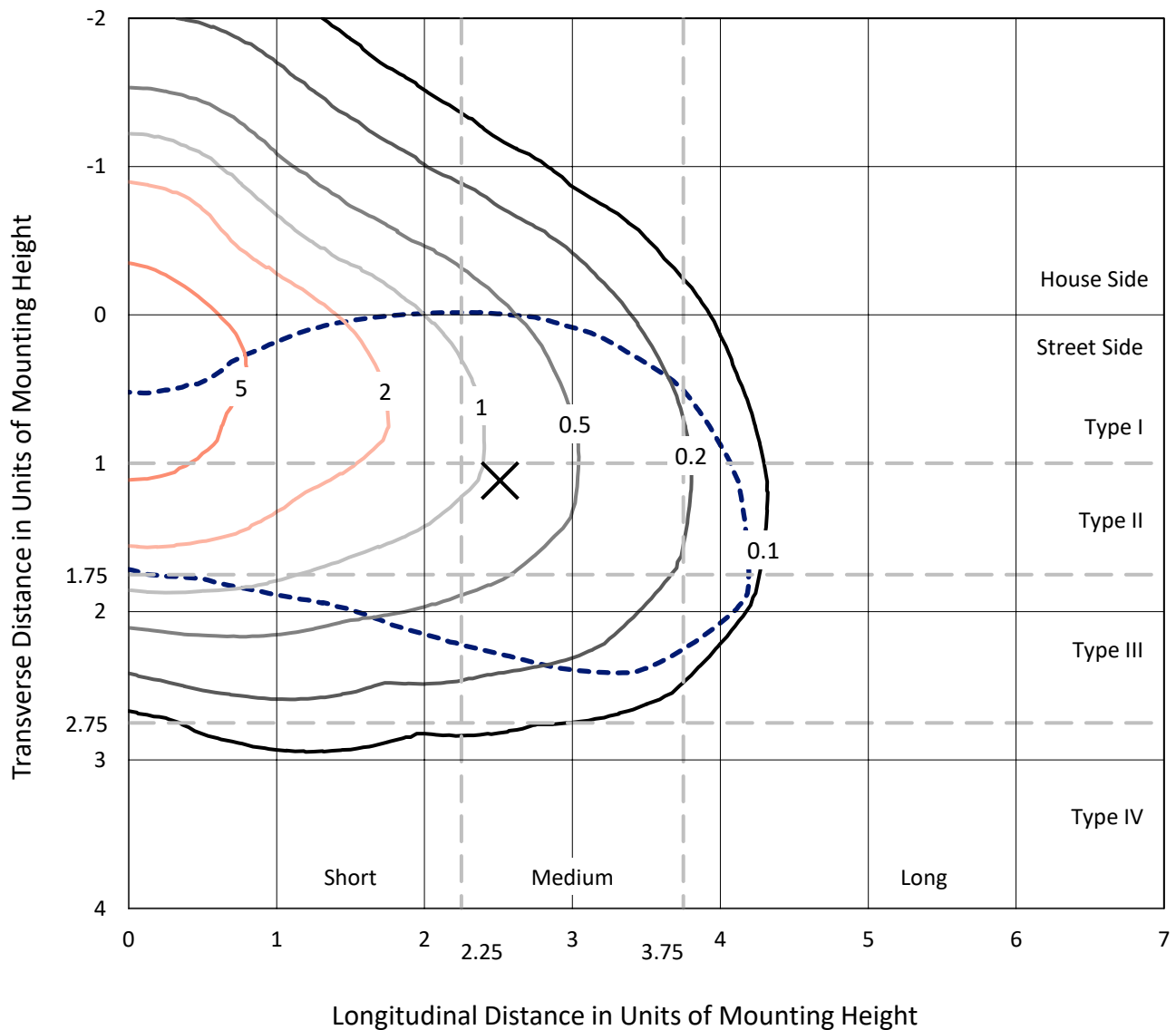
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841258
CATALOG NUMBER: ARCH4-150-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

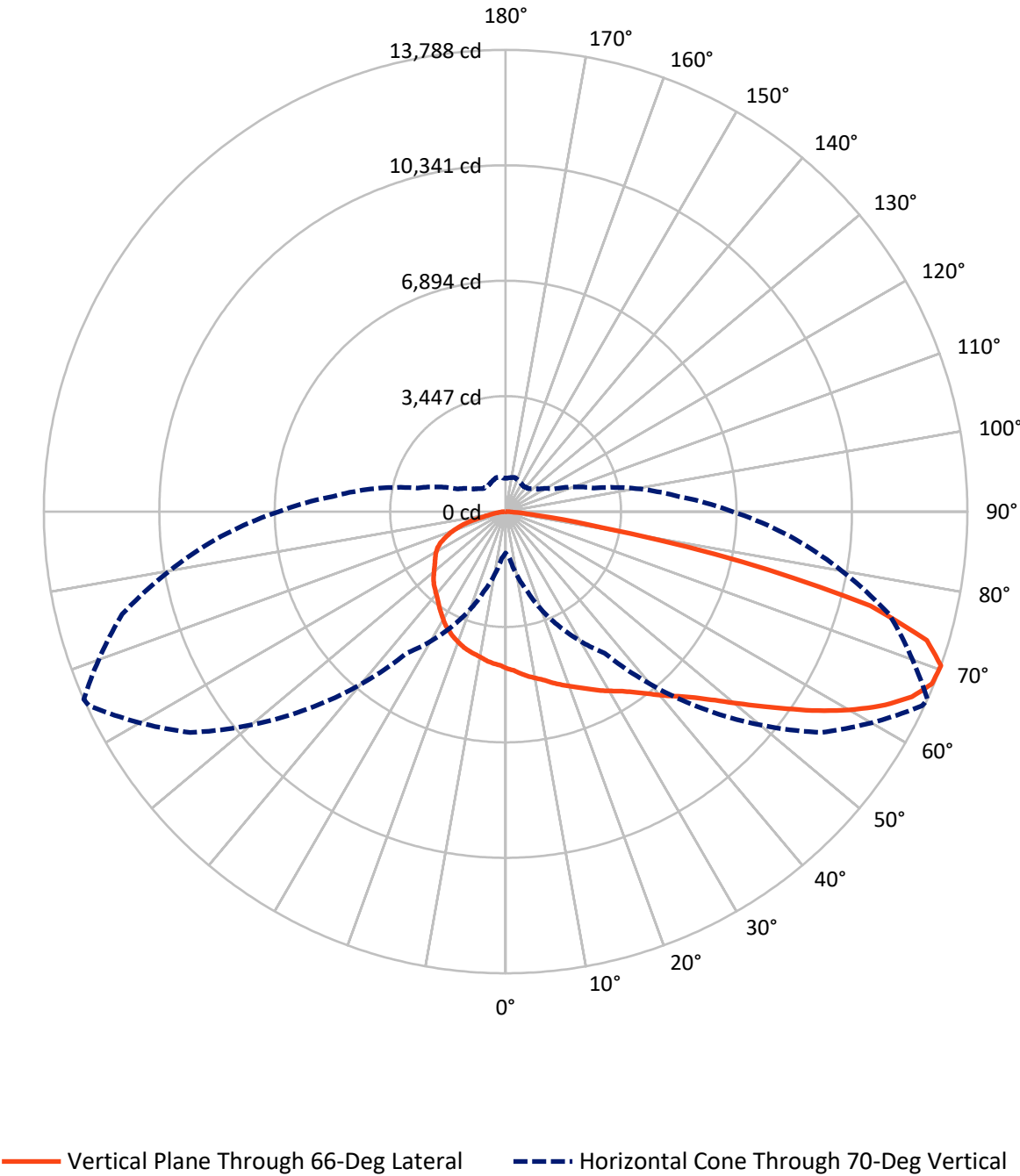
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
Type III - Medium - N/A

REPORT NUMBER: P841258
CATALOG NUMBER: ARCH4-150-740-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P841258

CATALOG NUMBER: ARCH4-150-740-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6880.9	0.0	6880.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	19087.1	0.0	19087.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	25968.0	0.0	25968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.3	1.7
10°-20°	1350.8	5.2
20°-30°	2264.5	8.7
30°-40°	3390.7	13.1
40°-50°	4533.3	17.5
50°-60°	5292.8	20.4
60°-70°	5262.8	20.3
70°-80°	3115.7	12.0
80°-90°	307.1	1.2
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°	25968.0	100.0
0°-180°	25968.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841258

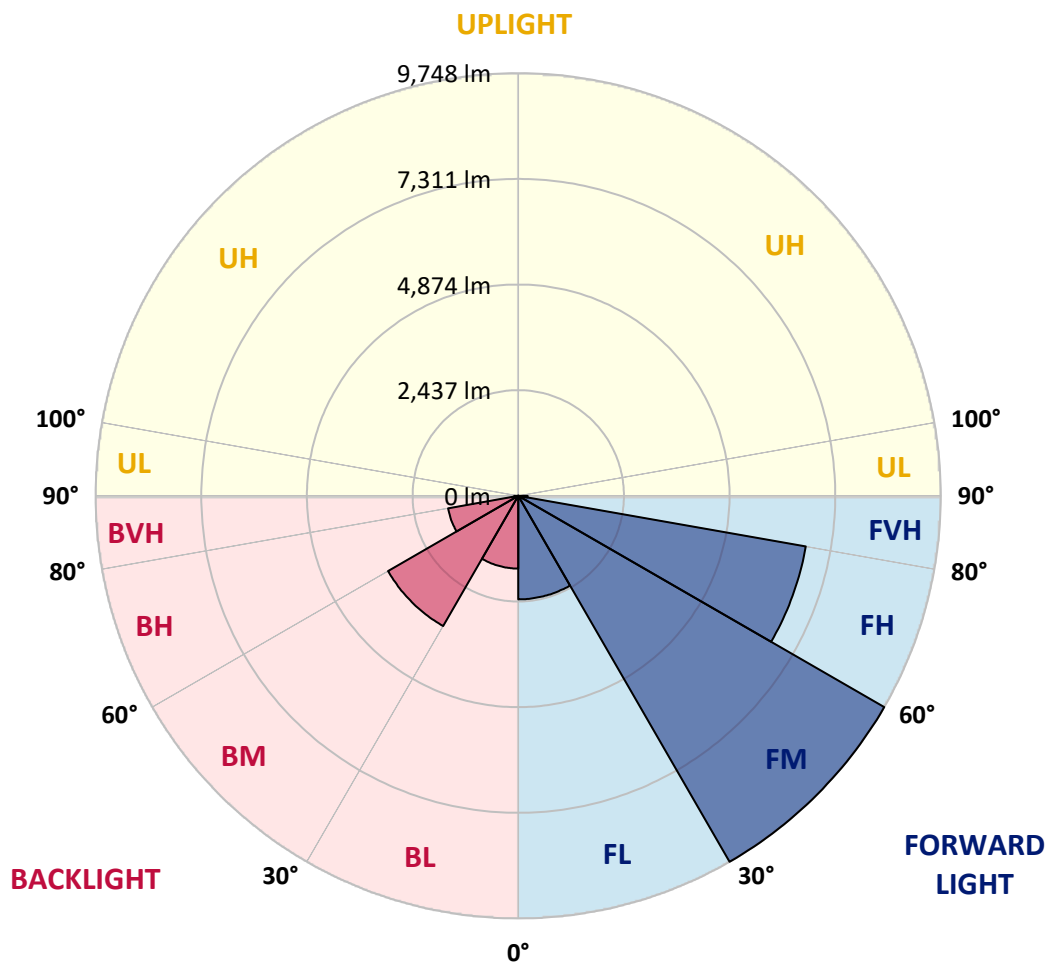
CATALOG NUMBER: ARCH4-150-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2388.4	9.2			
FM	(30°-60°)	9748.0	37.5			
FH	(60°-80°)	6734.9	25.9			G3/7500
FVH	(80°-90°)	215.8	0.8			G2/225
BL	(0°-30°)	1677.3	6.5	B3/2500		
BM	(30°-60°)	3468.7	13.4	B3/5000		
BH	(60°-80°)	1643.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	91.3	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 III Medium



REPORT NUMBER: P841258

CATALOG NUMBER: ARCH4-150-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6
2.5°	4858.9	4851.3	4847.4	4832.1	4797.7	4813.0	4778.5	4755.6	4751.7	4698.1	4667.5
5°	5058.0	5054.2	5046.6	5023.6	4970.0	4977.6	4920.2	4878.1	4866.6	4782.4	4717.3
7.5°	5226.5	5218.9	5215.0	5184.4	5127.0	5123.1	5054.2	4992.9	4973.8	4858.9	4759.4
10°	5356.7	5345.2	5352.9	5322.2	5261.0	5249.5	5161.4	5081.0	5061.9	4916.4	4778.5
12.5°	5467.7	5460.1	5471.6	5444.8	5395.0	5383.5	5295.4	5192.1	5169.1	5000.6	4820.6
15°	5590.3	5563.5	5586.4	5574.9	5540.5	5536.7	5456.3	5341.4	5310.8	5107.8	4885.7
17.5°	5655.4	5640.0	5666.8	5670.7	5655.4	5682.2	5605.6	5467.7	5440.9	5207.4	4943.2
20°	5701.3	5678.3	5709.0	5731.9	5743.4	5797.0	5735.8	5601.8	5571.1	5303.1	4996.8
22.5°	5858.3	5808.5	5812.3	5827.7	5835.3	5911.9	5873.6	5743.4	5712.8	5421.8	5061.9
25°	6252.7	6153.1	6088.0	6042.1	5988.5	6053.6	6030.6	5904.2	5877.4	5563.5	5142.3
27.5°	6865.3	6738.9	6608.8	6474.8	6264.2	6237.4	6199.1	6084.2	6053.6	5705.1	5222.7
30°	7562.2	7435.8	7282.7	7068.2	6673.9	6467.1	6379.0	6252.7	6218.2	5831.5	5299.3
32.5°	8255.2	8144.2	7991.0	7730.6	7167.8	6746.6	6559.0	6428.8	6394.3	5969.3	5391.2
35°	8795.1	8726.2	8626.6	8301.2	7657.9	7075.9	6819.4	6662.4	6624.1	6187.6	5559.6
37.5°	9231.6	9181.8	9097.6	8756.8	8014.0	7405.2	7118.0	6938.1	6895.9	6425.0	5739.6
40°	9874.9	9744.7	9675.8	9181.8	8324.1	7703.8	7455.0	7267.3	7221.4	6677.7	5885.1
42.5°	10422.4	10326.7	10242.4	9560.9	8619.0	7960.4	7772.8	7600.5	7539.2	6926.6	6042.1
45°	10514.3	10552.6	10510.5	9748.5	9086.1	8213.1	8094.4	7983.4	7925.9	7263.5	6279.5
47.5°	10518.1	10518.1	10269.2	9855.7	9664.3	8496.4	8439.0	8477.3	8416.0	7692.4	6562.8
50°	10242.4	10292.2	10162.0	9882.5	9817.4	8779.8	8860.2	9066.9	9005.7	8148.0	6869.1
52.5°	9671.9	9836.6	9832.7	9840.4	9595.3	9021.0	9304.3	9775.3	9671.9	8661.1	7194.6
55°	8664.9	8994.2	9289.0	9541.7	9403.9	9166.5	9848.1	10529.6	10422.4	9235.4	7523.9
57.5°	7803.4	8014.0	8381.6	9097.6	9178.0	9292.9	10357.3	11318.4	11222.6	9871.0	7868.5
60°	6819.4	7110.4	7477.9	8496.4	8902.3	9457.5	10916.3	12088.0	11996.1	10514.3	8201.6
62.5°	5306.9	5682.2	6417.3	7573.7	8500.3	9560.9	11356.7	12765.7	12723.6	11123.1	8500.3
65°	3698.8	4031.9	5061.9	6440.3	7860.8	9514.9	11708.9	13370.7	13332.4	11620.9	8710.9
67.5°	2159.5	2546.3	3710.3	5184.4	6731.3	9197.1	11823.8	13726.8	13726.8	11923.3	8768.3
70°	1232.9	1412.9	2446.7	3779.2	5161.4	8320.3	11502.2	13723.0	13788.0	11854.4	8530.9
72.5°	861.5	941.9	1646.4	2542.4	3499.7	6731.3	10659.8	13060.5	13148.6	11203.5	7719.2
75°	670.1	727.5	1160.2	1734.5	2205.5	4571.8	8818.1	11012.1	11245.6	9549.4	6241.2
77.5°	509.3	551.4	677.7	1083.6	1412.9	2626.7	5820.0	7221.4	7236.7	5846.8	3346.5
80°	371.4	413.5	451.8	662.4	750.5	1229.1	2197.8	3017.2	2933.0	2829.6	1811.1
82.5°	222.1	264.2	275.7	359.9	367.6	524.6	769.6	972.6	934.3	1244.4	850.0
85°	95.7	134.0	141.7	164.6	157.0	214.4	306.3	256.5	229.7	264.2	183.8
87.5°	23.0	38.3	38.3	42.1	34.5	53.6	57.4	42.1	38.3	45.9	45.9
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: P841258

CATALOG NUMBER: ARCH4-150-740-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6
2.5°	4659.8	4648.3	4652.2	4587.1	4567.9	4548.8	4537.3	4529.6	4522.0	4533.5	4545.0
5°	4694.3	4667.5	4636.9	4541.1	4502.8	4460.7	4430.1	4403.3	4391.8	4391.8	4403.3
7.5°	4721.1	4675.1	4610.1	4483.7	4414.8	4357.3	4307.6	4273.1	4254.0	4254.0	4265.4
10°	4724.9	4659.8	4556.4	4403.3	4311.4	4227.2	4169.7	4131.4	4104.6	4104.6	4112.3
12.5°	4747.9	4659.8	4525.8	4342.0	4227.2	4123.8	4054.9	3997.4	3985.9	3985.9	3993.6
15°	4786.2	4679.0	4506.7	4288.4	4150.6	4031.9	3955.3	3894.0	3871.1	3886.4	3890.2
17.5°	4820.6	4690.5	4472.2	4219.5	4054.9	3924.7	3840.4	3786.8	3756.2	3790.7	3790.7
20°	4843.6	4690.5	4422.4	4131.4	3951.5	3806.0	3725.6	3660.5	3637.5	3679.6	3683.4
22.5°	4878.1	4686.6	4368.8	4043.4	3840.4	3687.3	3606.9	3557.1	3545.6	3591.6	3606.9
25°	4916.4	4694.3	4311.4	3943.8	3717.9	3568.6	3507.3	3484.3	3492.0	3549.4	3568.6
27.5°	4958.5	4709.6	4254.0	3832.8	3583.9	3449.9	3415.4	3426.9	3457.5	3530.3	3553.3
30°	4996.8	4713.4	4173.6	3702.6	3430.7	3304.4	3319.7	3369.5	3415.4	3488.2	3515.0
32.5°	5046.6	4717.3	4089.3	3560.9	3266.1	3174.2	3243.1	3323.5	3369.5	3438.4	3469.0
35°	5169.1	4782.4	4024.2	3423.1	3112.9	3063.2	3178.0	3281.4	3308.2	3369.5	3396.3
37.5°	5310.8	4889.6	3989.8	3281.4	2963.6	2952.1	3097.6	3201.0	3208.7	3246.9	3273.8
40°	5398.8	4935.5	3951.5	3162.7	2829.6	2837.3	2986.6	3067.0	3051.7	3078.5	3097.6
42.5°	5486.9	4950.8	3871.1	3063.2	2703.2	2710.9	2825.8	2883.2	2890.9	2948.3	2975.1
45°	5636.2	4992.9	3783.0	2971.3	2588.4	2561.6	2630.5	2707.1	2806.6	2917.7	2948.3
47.5°	5835.3	5081.0	3691.1	2860.2	2477.3	2389.3	2416.1	2550.1	2653.5	2756.8	2776.0
50°	6038.3	5169.1	3606.9	2726.2	2366.3	2205.5	2217.0	2339.5	2423.7	2504.1	2515.6
52.5°	6237.4	5245.7	3534.1	2599.9	2239.9	1987.2	2033.2	2159.5	2217.0	2255.3	2266.7
55°	6436.5	5310.8	3469.0	2492.6	2094.4	1814.9	1857.0	1975.7	2033.2	2052.3	2060.0
57.5°	6643.2	5387.3	3419.3	2400.8	1929.8	1661.8	1688.6	1772.8	1826.4	1849.4	1841.7
60°	6815.5	5452.4	3392.4	2305.0	1765.1	1520.1	1512.4	1589.0	1665.6	1688.6	1680.9
62.5°	6949.5	5494.5	3350.3	2182.5	1619.6	1378.4	1340.1	1439.7	1520.1	1535.4	1546.9
65°	7022.3	5498.4	3246.9	2025.5	1470.3	1225.3	1198.5	1298.0	1347.8	1363.1	1363.1
67.5°	7010.8	5437.1	3044.0	1814.9	1332.5	1087.4	1064.4	1125.7	1198.5	1209.9	1198.5
70°	6773.4	5184.4	2718.6	1592.8	1167.8	964.9	922.8	984.0	1053.0	1010.8	991.7
72.5°	6099.5	4529.6	2239.9	1347.8	984.0	811.7	792.6	853.9	857.7	865.3	846.2
75°	4813.0	3373.3	1677.1	1049.1	796.4	681.6	677.7	666.2	681.6	712.2	689.2
77.5°	2527.1	1684.7	907.5	643.3	578.2	547.5	520.7	516.9	562.9	582.0	559.0
80°	1370.8	945.8	520.7	386.7	352.3	356.1	390.6	382.9	432.7	444.2	425.0
82.5°	597.3	448.0	256.5	233.6	233.6	229.7	241.2	268.0	321.6	321.6	256.5
85°	130.2	111.0	99.6	114.9	130.2	130.2	130.2	130.2	91.9	49.8	34.5
87.5°	42.1	42.1	42.1	45.9	49.8	49.8	42.1	30.6	19.1	3.8	0.0
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)