

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: P1211275

Luminaire Tested: **ARCH4-220-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211275
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: ARCH4-220-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34065 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

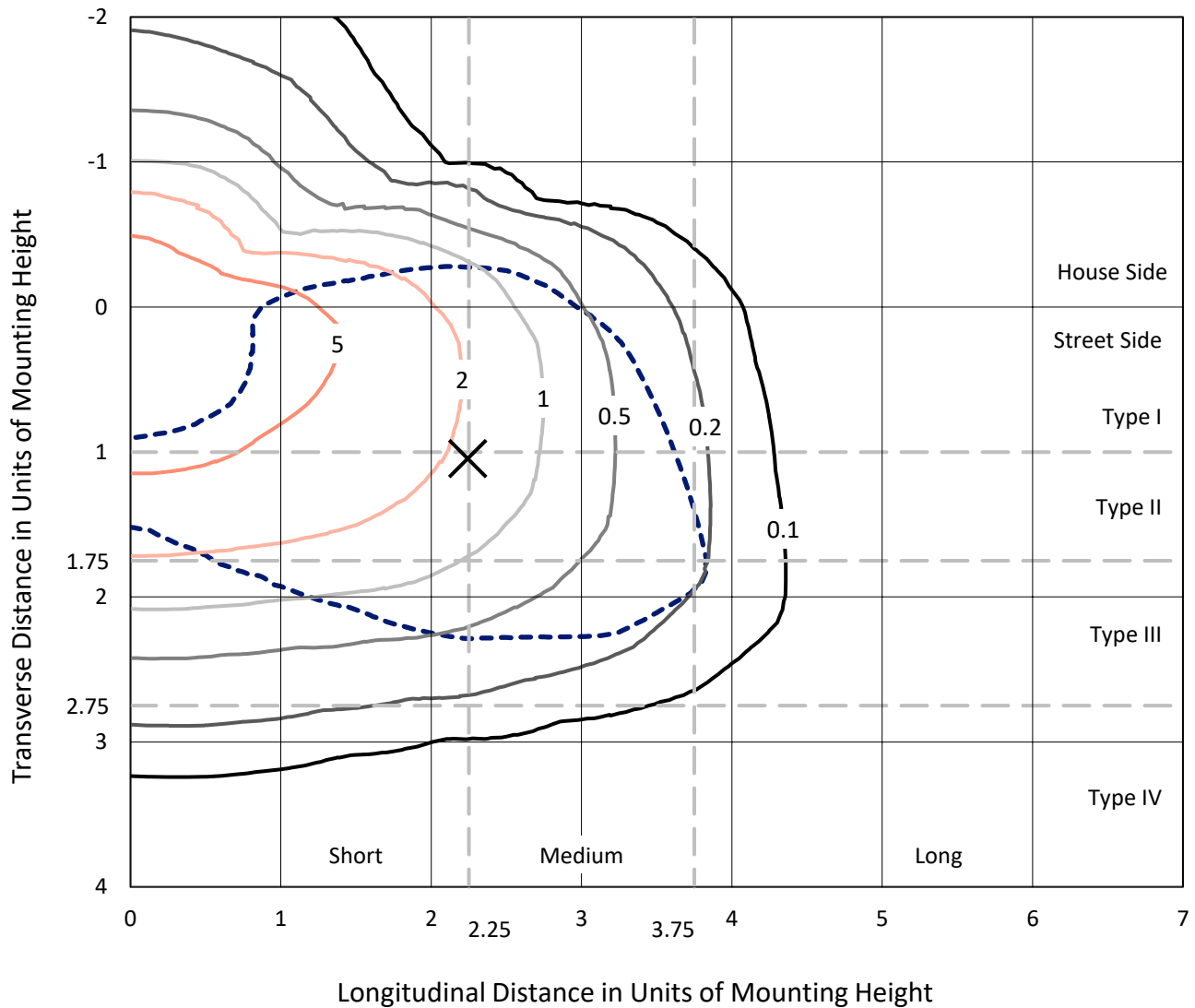


REPORT NUMBER: P1211275

CATALOG NUMBER: ARCH4-220-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

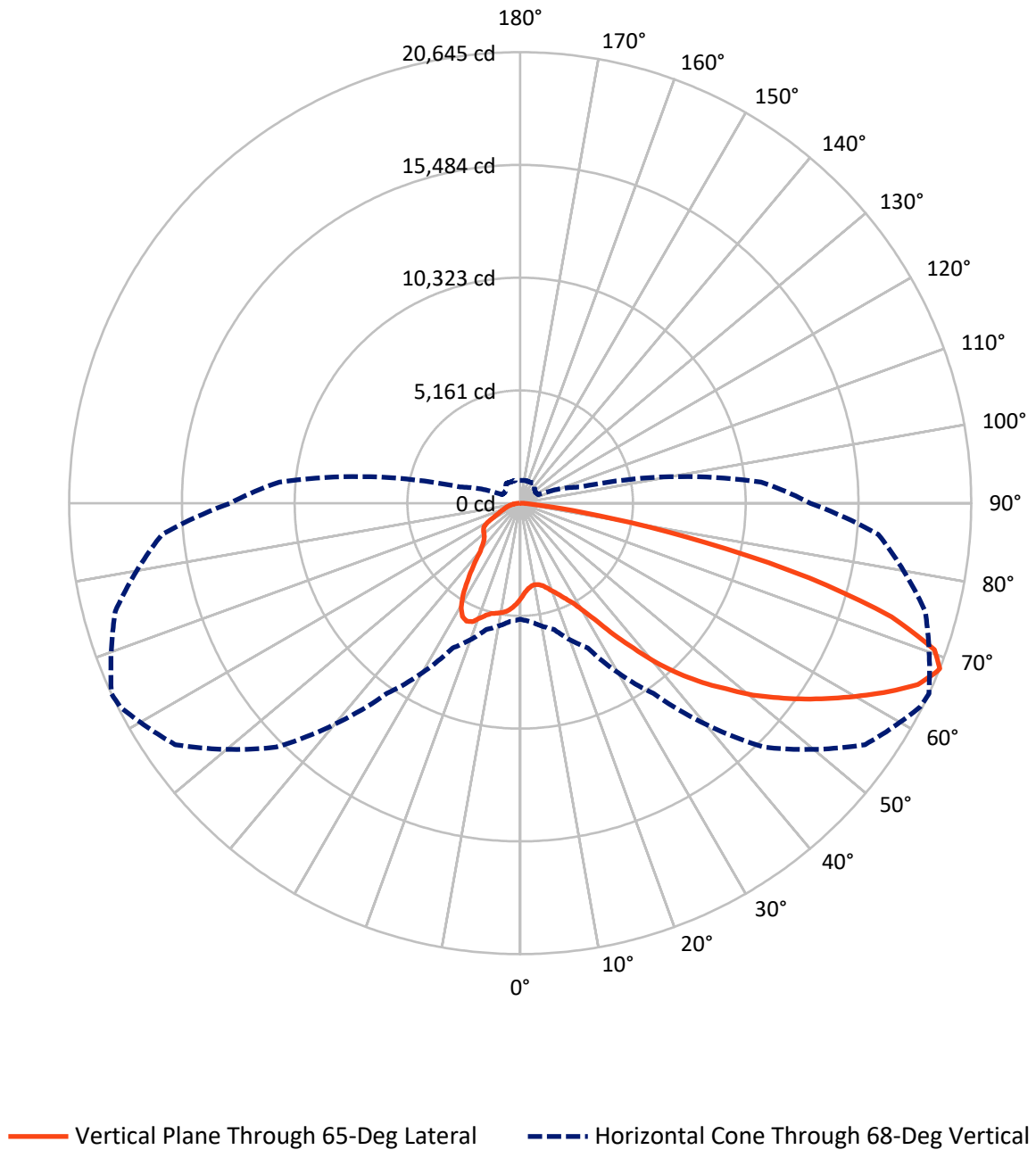


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type III - Short - N/A

REPORT NUMBER: P1211275

CATALOG NUMBER: ARCH4-220-750-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8351.7	0.0	8351.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	25713.3	0.0	25713.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	34065.0	0.0	34065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.2
10°-20°	1354.6	4.0
20°-30°	2451.7	7.2
30°-40°	3856.7	11.3
40°-50°	5744.2	16.9
50°-60°	7535.2	22.1
60°-70°	8240.2	24.2
70°-80°	4077.5	12.0
80°-90°	388.9	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°	34065.0	100.0
0°-180°	34065.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211275

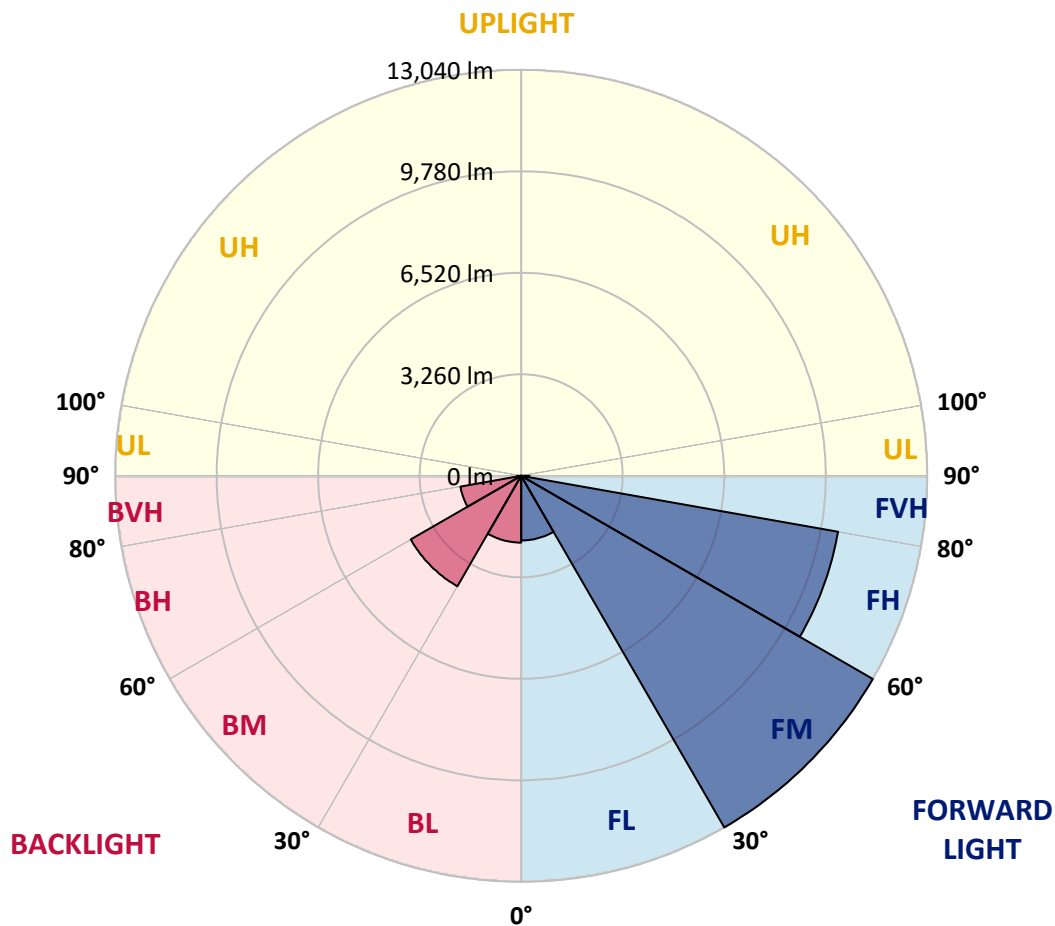
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2076.6	6.1			
FM	(30°-60°)	13039.6	38.3			
FH	(60°-80°)	10335.4	30.3			G4/12000
FVH	(80°-90°)	261.6	0.8			G3/500
BL	(0°-30°)	2145.6	6.3	B3/2500		
BM	(30°-60°)	4096.5	12.0	B3/5000		
BH	(60°-80°)	1982.3	5.8	B3/2500		G3/2500
BVH	(80°-90°)	127.4	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-G4

Type III Short



REPORT NUMBER: P1211275

CATALOG NUMBER: ARCH4-220-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1
2.5°	3799.6	3790.8	3812.8	3834.8	3883.1	3940.2	4019.3	4085.1	4093.9	4216.9	4313.6
5°	3575.6	3562.4	3584.4	3610.7	3632.7	3703.0	3786.4	3883.1	3922.6	4102.7	4309.2
7.5°	3597.6	3593.2	3602.0	3593.2	3593.2	3623.9	3681.0	3777.7	3821.6	4036.8	4331.1
10°	3724.9	3733.7	3738.1	3711.8	3685.4	3672.2	3689.8	3755.7	3786.4	4041.2	4427.8
12.5°	3935.8	3949.0	3953.4	3905.0	3869.9	3812.8	3782.1	3808.4	3830.4	4085.1	4563.9
15°	4221.3	4230.1	4199.4	4168.6	4080.7	4010.5	3935.8	3913.8	3922.6	4177.4	4717.7
17.5°	4555.2	4542.0	4542.0	4467.3	4353.1	4243.3	4120.3	4102.7	4102.7	4326.7	4937.3
20°	4919.7	4932.9	4893.4	4792.4	4678.1	4506.8	4383.8	4304.8	4313.6	4498.0	5205.3
22.5°	5446.9	5468.8	5363.4	5218.4	5042.7	4845.1	4669.4	4542.0	4546.4	4722.1	5482.0
25°	6013.5	6022.3	5956.4	5763.1	5525.9	5244.8	5012.0	4849.5	4845.1	4972.5	5837.8
27.5°	6593.3	6632.9	6501.1	6316.6	6097.0	5745.6	5438.1	5218.4	5183.3	5354.6	6281.5
30°	7190.7	7239.0	7111.7	6931.6	6659.2	6360.5	5995.9	5741.2	5719.2	5947.6	6874.5
32.5°	7792.5	7805.7	7704.7	7555.3	7309.3	7028.2	6733.9	6452.8	6430.8	6804.2	7643.2
35°	8284.5	8324.0	8253.7	8218.6	8038.5	7779.3	7493.8	7331.3	7388.4	7867.2	8640.3
37.5°	8877.5	8917.0	8838.0	8829.2	8772.1	8548.1	8350.4	8363.6	8420.7	9070.8	9690.1
40°	9734.1	9778.0	9575.9	9488.1	9488.1	9268.4	9202.6	9514.4	9589.1	10256.8	10783.9
42.5°	10458.8	10529.1	10410.5	10353.4	10182.1	10028.4	10107.4	10546.7	10674.1	11390.1	11737.1
45°	10810.3	10863.0	11003.5	11170.4	11003.5	10735.6	11034.3	11530.6	11710.7	12435.5	12690.3
47.5°	10999.1	11047.5	11210.0	11658.0	11772.2	11548.2	11969.9	12589.3	12712.3	13472.2	13599.6
50°	11025.5	11179.2	11390.1	11838.1	12360.9	12391.6	12909.9	13665.5	13810.4	14491.3	14399.0
52.5°	10810.3	10871.8	11306.6	12062.2	12642.0	13169.1	13933.4	14697.7	14803.2	15448.9	15106.2
55°	10458.8	10546.7	10981.6	12009.4	12914.3	13907.1	14974.5	15712.4	15831.0	16380.1	15760.7
57.5°	10142.6	10186.5	10652.1	11855.7	13186.7	14645.0	15901.3	16771.0	16850.1	17197.1	16243.9
60°	9791.2	9839.5	10305.1	11526.3	13388.7	15202.9	16867.7	17838.5	17908.7	18058.1	16806.2
62.5°	8881.9	9009.3	9593.5	10981.6	13336.0	15839.8	17900.0	18892.7	18980.5	18818.0	17249.8
65°	7212.7	7392.8	8108.8	9747.2	12844.0	16252.7	18743.3	19863.5	20012.8	19389.1	17368.4
67.5°	5600.6	5728.0	6303.4	7735.4	11117.7	16046.3	19288.0	20531.1	20575.1	19296.8	16709.6
68°	5310.7	5438.1	5987.1	7313.7	10638.9	15800.3	19274.8	20548.7	20645.3	19195.8	16454.8
70°	4063.2	4208.1	4730.9	5793.9	8574.4	14236.5	18471.0	20127.0	20113.8	17974.6	14873.4
72.5°	2538.9	2622.4	2982.6	3654.7	5670.9	10832.2	15677.3	17750.6	17785.7	14653.8	11407.7
75°	1612.1	1612.1	1594.5	1770.2	2907.9	6171.6	11653.6	13665.5	13691.8	10261.2	7190.7
77.5°	1401.2	1361.7	1172.8	992.7	1159.7	2398.4	6896.4	8824.8	8679.8	5525.9	3413.1
80°	1181.6	1115.7	962.0	799.5	746.7	751.1	2648.8	4480.5	4287.2	1989.9	1133.3
82.5°	852.2	795.1	724.8	628.1	575.4	448.0	553.5	1295.8	1265.1	575.4	369.0
85°	461.2	417.3	408.5	412.9	347.0	276.7	232.8	285.5	285.5	250.4	210.8
87.5°	162.5	118.6	140.6	158.1	136.2	114.2	92.2	109.8	114.2	109.8	101.0
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: P1211275

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1	4353.1
2.5°	4370.7	4414.6	4520.0	4612.3	4678.1	4735.3	4766.0	4779.2	4809.9	4814.3	4805.5
5°	4405.8	4520.0	4678.1	4814.3	4889.0	4919.7	4928.5	4932.9	4919.7	4928.5	4919.7
7.5°	4498.0	4643.0	4867.0	4985.6	4998.8	4950.5	4954.9	4937.3	4954.9	4972.5	4972.5
10°	4638.6	4823.1	5033.9	5077.9	5020.8	4994.4	5047.1	5152.6	5187.7	5236.0	5236.0
12.5°	4823.1	5042.7	5192.1	5152.6	5099.8	5187.7	5341.4	5446.9	5482.0	5499.6	5486.4
15°	5033.9	5271.2	5345.8	5214.0	5310.7	5499.6	5552.3	5490.8	5402.9	5363.4	5385.4
17.5°	5301.9	5499.6	5455.6	5367.8	5587.4	5613.8	5442.5	5244.8	5104.2	5051.5	5086.7
20°	5583.0	5754.3	5552.3	5591.8	5728.0	5446.9	5121.8	4867.0	4744.0	4722.1	4757.2
22.5°	5881.7	5991.5	5648.9	5851.0	5648.9	5077.9	4686.9	4555.2	4524.4	4559.5	4590.3
25°	6220.0	6206.8	5815.8	5930.0	5354.6	4625.4	4392.6	4383.8	4383.8	4405.8	4449.7
27.5°	6602.1	6395.7	5982.8	5824.6	4845.1	4252.1	4208.1	4212.5	4199.4	4203.7	4225.7
30°	7045.8	6650.4	6167.2	5477.6	4274.0	3970.9	3953.4	3940.2	3909.4	3900.7	3909.4
32.5°	7603.6	6918.4	6356.1	4906.6	3773.3	3681.0	3672.2	3602.0	3527.3	3518.5	3549.2
35°	8310.8	7406.0	6452.8	4190.6	3360.4	3356.0	3325.2	3215.4	3118.8	3118.8	3096.8
37.5°	9119.1	8034.1	6492.3	3492.1	3017.7	3039.7	2951.8	2811.3	2736.6	2692.7	2705.9
40°	9944.9	8750.1	6487.9	2881.6	2719.0	2723.4	2657.5	2486.2	2301.7	2191.9	2218.3
42.5°	10740.0	9400.2	6373.7	2556.5	2477.4	2464.3	2411.6	2178.7	2025.0	1937.1	1941.5
45°	11376.9	10072.3	6198.0	2363.2	2257.8	2279.8	2161.2	2020.6	1880.0	1801.0	1796.6
47.5°	12013.8	10581.8	5916.9	2244.6	2095.3	2055.7	2007.4	1910.8	1805.4	1717.5	1721.9
50°	12593.7	11016.7	5653.3	2165.6	1945.9	1844.9	1853.7	1796.6	1704.3	1625.3	1620.9
52.5°	13002.2	11302.2	5508.4	2121.6	1765.8	1656.0	1686.8	1656.0	1568.2	1511.1	1506.7
55°	13410.7	11521.9	5556.7	2064.5	1568.2	1480.3	1533.0	1524.2	1475.9	1458.4	1462.7
57.5°	13740.1	11688.8	5728.0	1959.1	1379.3	1326.6	1414.4	1388.1	1352.9	1357.3	1357.3
60°	14060.8	11904.0	5930.0	1717.5	1216.8	1221.2	1304.6	1256.3	1234.3	1273.9	1278.3
62.5°	14394.6	12136.8	5763.1	1366.1	1076.2	1106.9	1203.6	1164.0	1172.8	1229.9	1247.5
65°	14355.1	12114.9	4695.7	1120.1	953.2	1014.7	1159.7	1146.5	1150.9	1172.8	1181.6
67.5°	13546.9	11341.8	3228.6	953.2	865.3	940.0	1124.5	1071.8	1076.2	1063.0	1067.4
68°	13274.5	11069.4	2846.4	926.8	847.8	922.5	1106.9	1058.6	1063.0	1049.8	1045.4
70°	11789.8	9479.3	1801.0	817.0	786.3	874.1	1019.1	1001.5	997.1	988.3	988.3
72.5°	8987.3	6997.5	948.8	707.2	716.0	799.5	909.3	944.4	922.5	926.8	953.2
75°	5952.0	4208.1	658.9	606.2	628.1	685.2	808.2	878.5	856.6	869.7	856.6
77.5°	3149.5	2266.6	527.1	513.9	513.9	553.5	667.7	777.5	777.5	768.7	755.5
80°	1032.3	799.5	421.7	404.1	412.9	434.9	535.9	636.9	650.1	632.5	623.8
82.5°	347.0	369.0	316.3	294.3	303.1	320.7	404.1	487.6	492.0	456.8	448.0
85°	215.2	246.0	197.7	193.3	193.3	197.7	246.0	268.0	246.0	219.6	228.4
87.5°	101.0	123.0	92.2	79.1	65.9	57.1	43.9	17.6	17.6	8.8	8.8
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)