

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: P841811

Luminaire Tested: **ARCH4-230-730-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24103 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

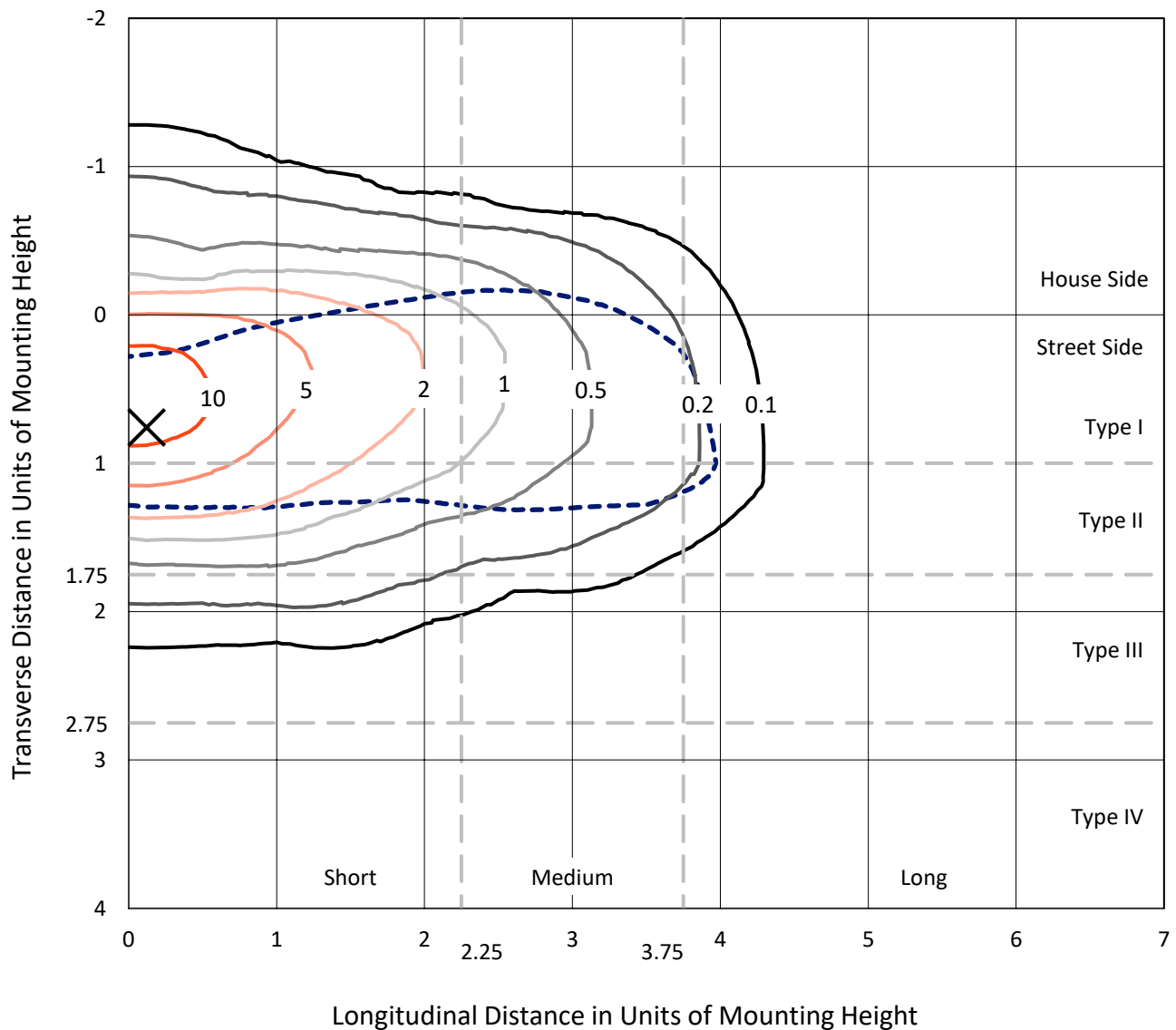
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

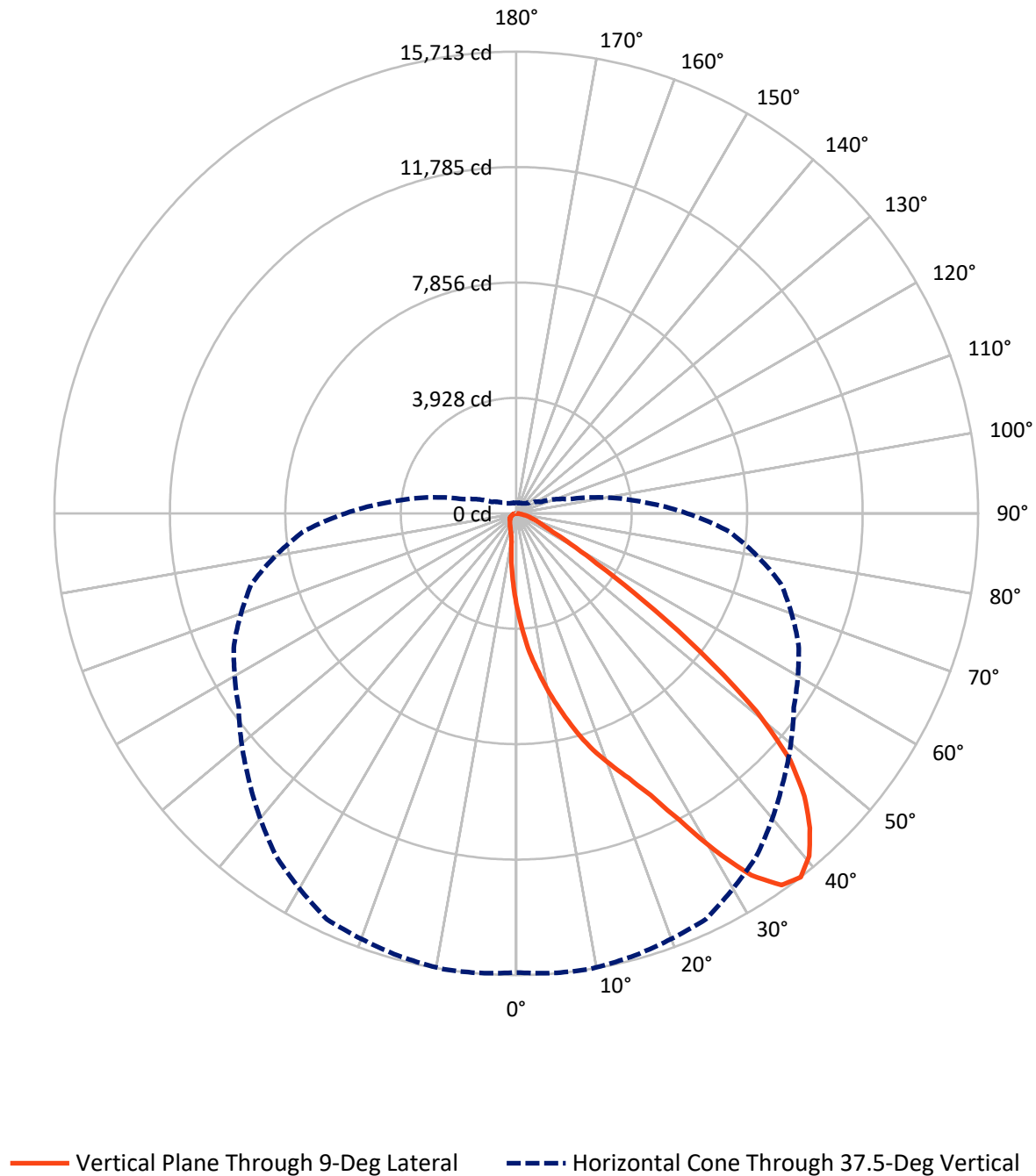
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2931.3	0.0	2931.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21171.6	0.0	21171.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	24103.0	0.0	24103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.3	1.3
10°-20°	1113.1	4.6
20°-30°	2287.2	9.5
30°-40°	4042.7	16.8
40°-50°	5370.4	22.3
50°-60°	5093.5	21.1
60°-70°	3885.9	16.1
70°-80°	1883.9	7.8
80°-90°	106.0	0.4
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°	24103.0	100.0
0°-180°	24103.0	100.0

Coefficient of Utilization



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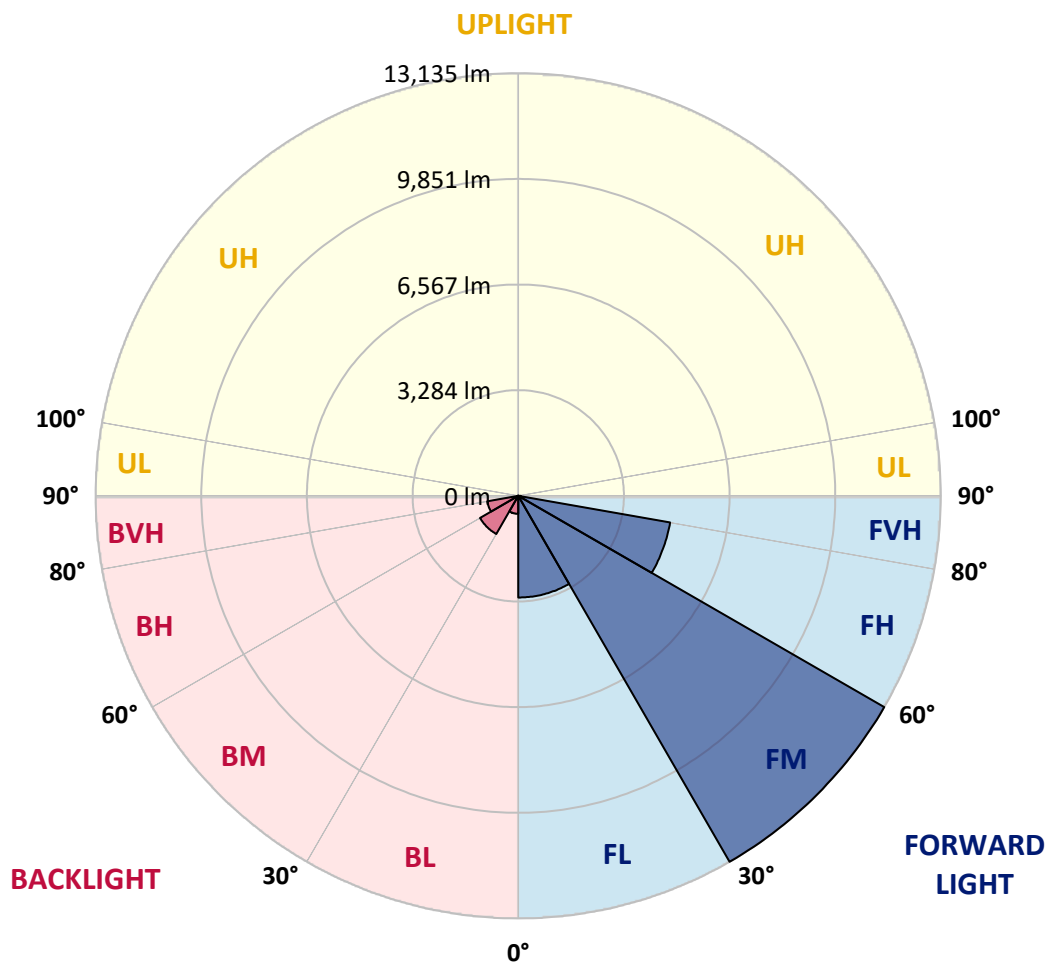
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3161.1	13.1			
FM	(30°-60°)	13135.0	54.5			
FH	(60°-80°)	4791.6	19.9			G2/5000
FVH	(80°-90°)	84.0	0.3			G1/100
BL	(0°-30°)	559.4	2.3	B2/1000		
BM	(30°-60°)	1371.7	5.7	B2/2500		
BH	(60°-80°)	978.2	4.1	B2/1000		G2/1000
BVH	(80°-90°)	22.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1
2.5°	3948.0	3878.8	3957.9	3948.0	3878.8	3834.2	3695.7	3651.2	3487.9	3369.2	3265.3
5°	4759.4	4690.1	4759.4	4739.6	4640.7	4531.8	4304.2	4155.8	3863.9	3606.7	3374.1
7.5°	5432.2	5432.2	5461.9	5466.9	5348.1	5179.9	4897.9	4675.3	4264.7	3868.9	3497.8
10°	6159.5	6164.5	6228.8	6184.2	6025.9	5798.4	5442.1	5160.1	4665.4	4145.9	3616.5
12.5°	6936.3	6941.2	6961.0	6941.2	6753.2	6461.3	6030.9	5659.8	5090.9	4462.6	3779.8
15°	7713.0	7717.9	7742.7	7708.0	7500.3	7158.9	6669.1	6213.9	5541.1	4818.8	3977.7
17.5°	8440.3	8450.2	8469.9	8425.4	8207.7	7802.0	7302.4	6753.2	6021.0	5199.7	4200.3
20°	9093.3	9103.2	9118.1	9058.7	8841.0	8435.3	7896.0	7322.2	6510.8	5590.6	4442.8
22.5°	9751.3	9761.2	9786.0	9706.8	9464.4	8999.3	8469.9	7876.3	7030.3	6021.0	4724.8
25°	10592.4	10602.3	10622.1	10508.3	10176.8	9632.6	9073.5	8465.0	7594.3	6505.8	5071.1
27.5°	11824.3	11814.4	11814.4	11606.6	11037.6	10330.2	9682.1	9063.6	8202.8	7025.3	5452.0
30°	13348.1	13323.3	13308.5	13026.5	12215.1	11116.8	10305.4	9622.7	8786.6	7574.5	5862.7
32.5°	14713.6	14713.6	14683.9	14387.0	13526.2	12175.5	10968.4	10166.9	9350.6	8128.6	6288.1
35°	15520.0	15554.6	15539.8	15317.1	14688.8	13313.5	11863.9	10820.0	9944.3	8707.4	6797.7
37.5°	15628.8	15698.1	15712.9	15579.4	15247.9	14243.6	12858.3	11527.4	10597.3	9330.8	7292.5
40°	15188.5	15336.9	15336.9	15317.1	15198.4	14683.9	13694.4	12348.7	11270.2	9978.9	7792.2
42.5°	14510.7	14664.1	14644.3	14718.5	14688.8	14580.0	14164.4	13115.6	11943.0	10646.8	8247.3
45°	13625.1	13783.5	13743.9	13877.5	13936.8	14055.6	14114.9	13649.9	12606.0	11374.1	8756.9
47.5°	12205.2	12472.4	12531.8	12769.2	13016.6	13387.7	13669.7	13842.8	13224.4	12155.8	9311.0
50°	10107.5	10483.5	10602.3	11102.0	11779.8	12546.6	13001.8	13605.3	13659.8	12957.2	9909.6
52.5°	7238.0	7673.4	7856.5	8677.7	10072.9	11408.7	12230.0	13080.9	13828.0	13724.1	10557.7
55°	4680.2	5051.3	5229.4	6001.2	7856.5	9954.2	11319.6	12403.1	13734.0	14426.6	11299.9
57.5°	2884.3	3097.1	3215.8	3878.8	5585.6	8089.0	10127.3	11779.8	13447.0	15035.1	12071.7
60°	1944.3	2068.0	2127.4	2439.1	3794.7	6045.7	8489.7	11126.7	13071.0	15445.8	12774.2
62.5°	1291.3	1330.9	1390.2	1583.2	2503.4	4244.9	6520.7	9959.1	12789.0	15470.5	13293.7
65°	999.4	1019.2	1043.9	1128.0	1543.6	2968.4	4586.2	8069.2	12368.5	14946.1	13456.9
67.5°	786.6	806.4	836.1	880.6	1118.1	2013.6	3121.8	5912.1	11507.7	14124.8	13189.8
70°	618.4	633.3	653.1	692.6	870.7	1459.5	2063.1	3928.2	9771.1	13343.1	12348.7
72.5°	489.8	504.6	524.4	564.0	707.5	1068.6	1415.0	2449.0	7534.9	12388.3	10730.9
75°	385.9	395.8	410.6	450.2	569.0	831.2	959.8	1464.4	5120.6	10641.9	8361.1
77.5°	192.9	237.5	272.1	311.7	415.6	573.9	638.2	811.4	2162.0	5461.9	3987.6
80°	113.8	138.5	148.4	173.2	272.1	346.3	346.3	326.5	682.7	2097.7	1627.7
82.5°	64.3	89.1	94.0	98.9	163.3	197.9	158.3	118.7	138.5	702.5	475.0
85°	19.8	29.7	34.6	39.6	54.4	59.4	54.4	49.5	39.6	69.3	44.5
87.5°	0.0	0.0	0.0	0.0	4.9	9.9	9.9	9.9	14.8	14.8	14.8
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°	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1	3186.1
2.5°	3205.9	3141.6	3017.9	2904.1	2795.3	2716.1	2641.9	2572.6	2523.2	2483.6	2478.6
5°	3250.4	3121.8	2884.3	2661.7	2458.9	2290.6	2147.2	2033.4	1949.3	1889.9	1885.0
7.5°	3309.8	3111.9	2750.8	2419.3	2117.5	1875.1	1667.3	1513.9	1405.1	1360.5	1325.9
10°	3359.3	3102.0	2617.2	2176.9	1781.1	1474.3	1227.0	1073.6	994.4	964.7	949.9
12.5°	3443.4	3111.9	2503.4	1954.2	1489.2	1128.0	940.0	855.9	821.3	796.5	791.6
15°	3567.1	3156.4	2394.5	1736.5	1192.3	910.3	801.5	747.1	712.4	707.5	702.5
17.5°	3690.8	3196.0	2295.6	1513.9	989.5	791.6	717.4	672.8	648.1	643.2	643.2
20°	3834.2	3245.5	2186.8	1301.2	846.0	712.4	653.1	618.4	588.7	583.8	583.8
22.5°	4002.4	3314.8	2082.9	1113.2	752.0	653.1	603.6	564.0	539.3	534.3	534.3
25°	4230.0	3418.7	1998.7	974.6	687.7	603.6	559.1	524.4	504.6	494.7	494.7
27.5°	4482.3	3562.1	1939.4	890.5	643.2	564.0	519.5	489.8	470.0	460.1	460.1
30°	4764.3	3720.4	1899.8	855.9	618.4	529.4	489.8	460.1	435.4	430.4	430.4
32.5°	5076.0	3903.5	1875.1	860.8	613.5	504.6	460.1	430.4	410.6	400.7	400.7
35°	5422.3	4106.3	1860.2	890.5	623.4	484.8	435.4	405.7	385.9	376.0	376.0
37.5°	5808.2	4343.8	1860.2	920.2	648.1	479.9	410.6	380.9	366.1	356.2	356.2
40°	6169.4	4596.1	1880.0	954.8	672.8	479.9	390.8	366.1	346.3	336.4	336.4
42.5°	6451.4	4739.6	1894.9	989.5	687.7	475.0	371.1	346.3	331.5	321.6	321.6
45°	6773.0	4893.0	1865.2	1004.3	687.7	465.1	356.2	331.5	316.6	306.7	306.7
47.5°	7129.2	5081.0	1860.2	1014.2	672.8	445.3	341.4	316.6	306.7	296.8	296.8
50°	7490.4	5288.8	1870.1	1009.3	653.1	415.6	321.6	306.7	291.9	282.0	282.0
52.5°	7901.0	5506.5	1889.9	999.4	608.5	380.9	306.7	291.9	277.1	267.2	262.2
55°	8356.2	5743.9	1929.5	979.6	549.2	346.3	291.9	277.1	257.3	247.4	242.4
57.5°	8880.6	6035.8	1974.0	940.0	484.8	316.6	277.1	257.3	227.6	212.7	207.8
60°	9380.3	6367.3	2023.5	846.0	420.5	286.9	262.2	232.5	202.8	192.9	188.0
62.5°	9850.3	6693.8	2048.2	677.8	356.2	262.2	247.4	212.7	183.1	173.2	168.2
65°	10152.1	7050.0	1993.8	460.1	291.9	242.4	227.6	197.9	168.2	153.4	153.4
67.5°	10171.9	7218.3	1805.8	301.8	237.5	217.7	207.8	178.1	148.4	138.5	133.6
70°	9672.2	6965.9	1380.3	237.5	197.9	188.0	188.0	158.3	128.6	118.7	113.8
72.5°	8524.4	6169.4	880.6	192.9	168.2	158.3	158.3	133.6	113.8	98.9	94.0
75°	6728.5	4759.4	470.0	158.3	138.5	133.6	123.7	108.8	94.0	84.1	79.2
77.5°	3092.1	2097.7	217.7	113.8	103.9	103.9	94.0	79.2	74.2	64.3	64.3
80°	1222.0	712.4	108.8	74.2	69.3	69.3	69.3	54.4	54.4	44.5	39.6
82.5°	336.4	148.4	54.4	44.5	44.5	44.5	39.6	34.6	34.6	29.7	29.7
85°	34.6	24.7	24.7	24.7	24.7	19.8	19.8	14.8	9.9	9.9	9.9
87.5°	14.8	14.8	14.8	14.8	14.8	9.9	4.9	0.0	0.0	0.0	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)