

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: P836027

Luminaire Tested: **ARCH3-130-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13152 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 132.6
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

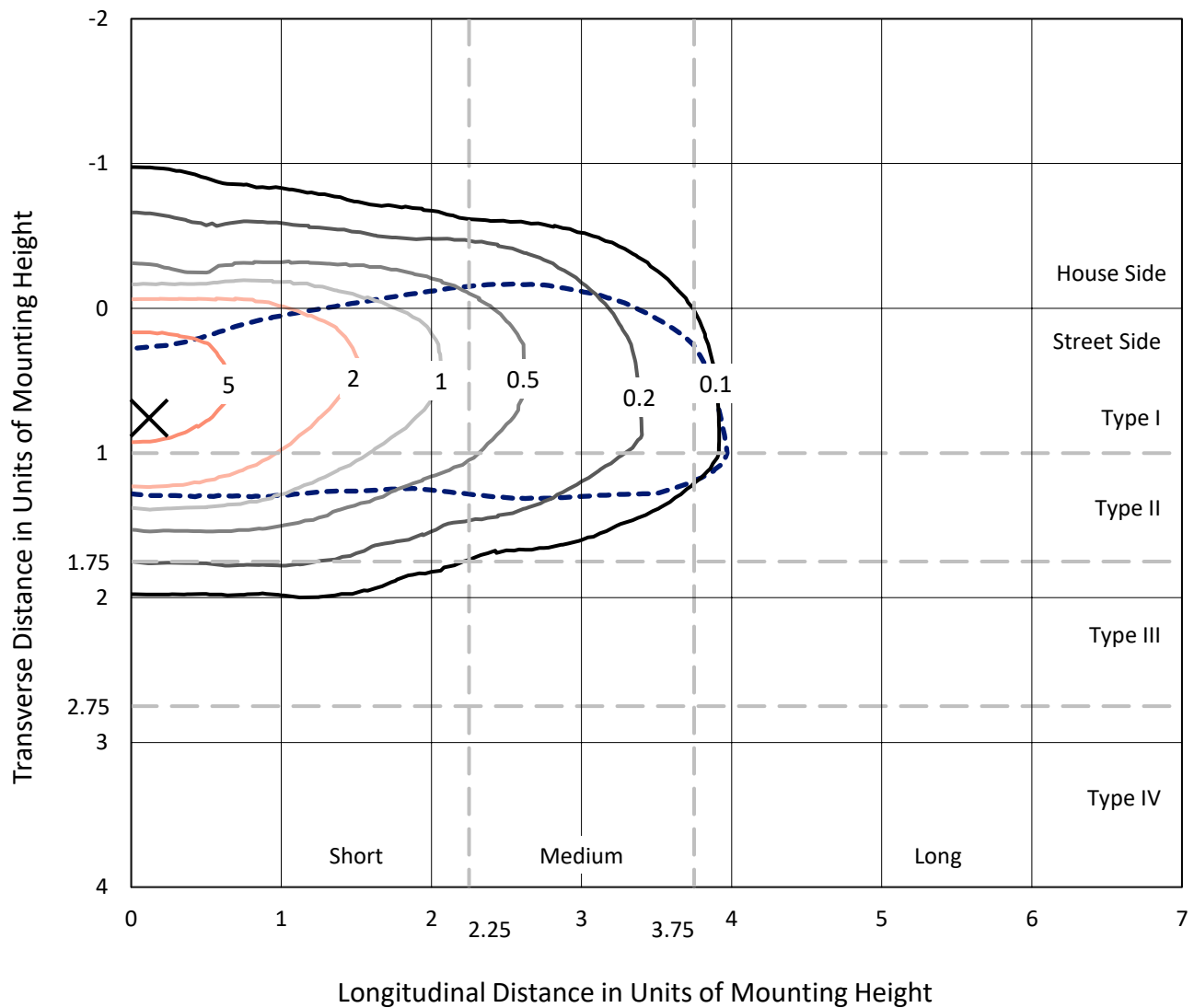


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Iso-Footcandle Lines of Horizontal Illumination

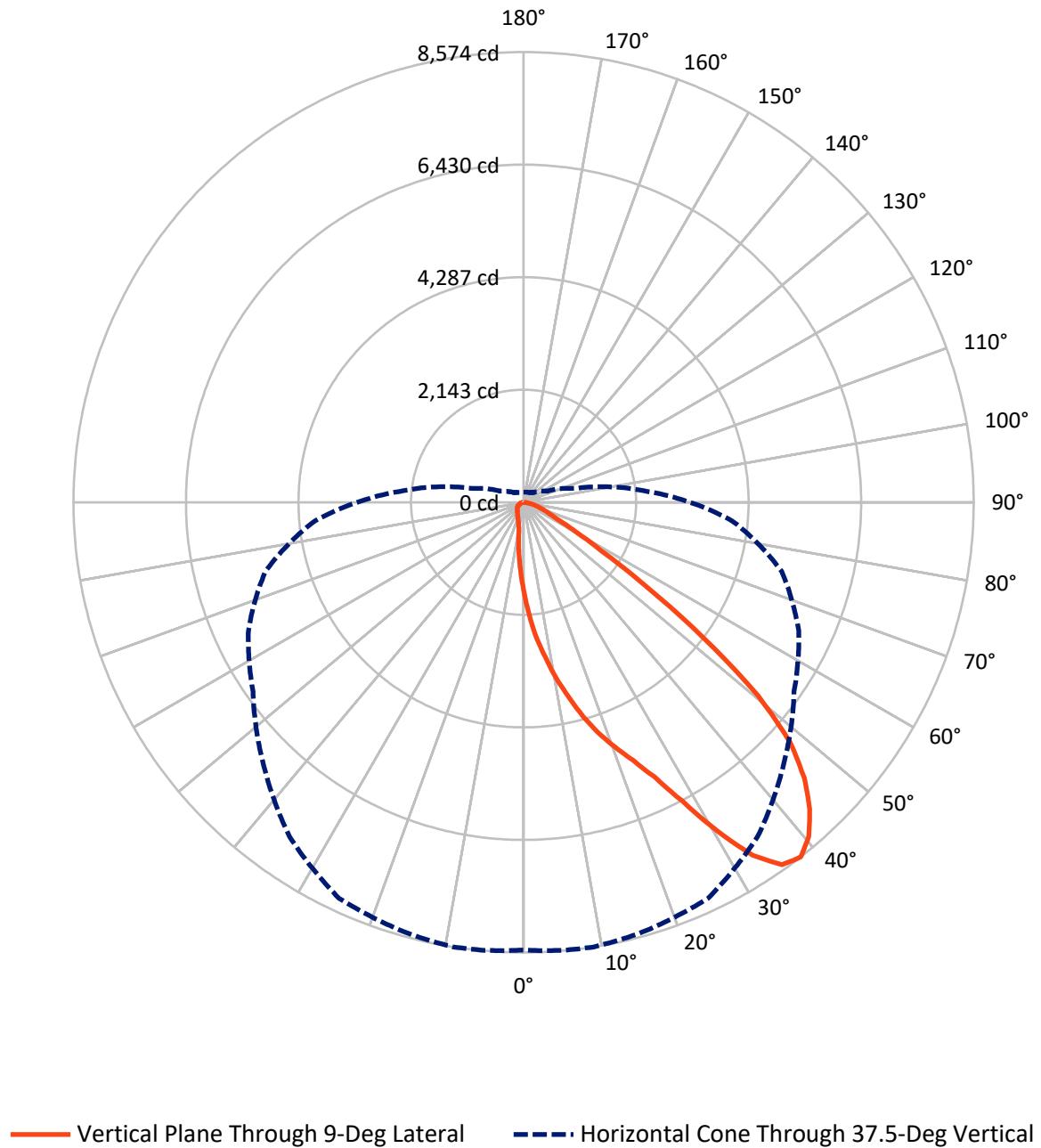
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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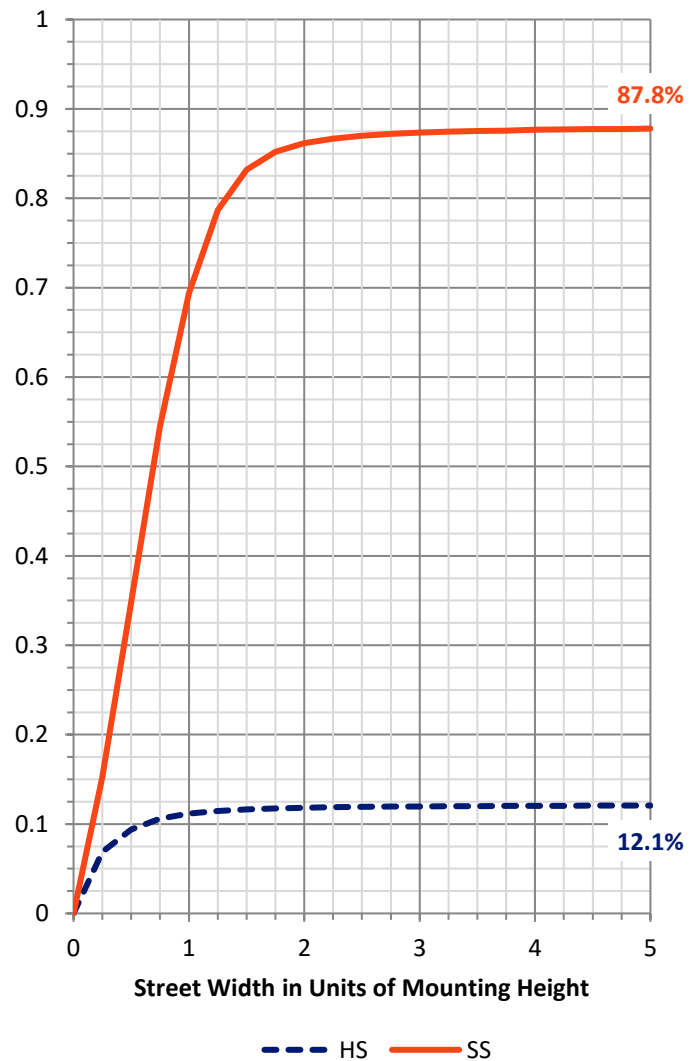
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1599.5	0.0	1599.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11552.5	0.0	11552.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	13152.0	0.0	13152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	1.3
10°-20°	607.4	4.6
20°-30°	1248.0	9.5
30°-40°	2206.0	16.8
40°-50°	2930.4	22.3
50°-60°	2779.3	21.1
60°-70°	2120.4	16.1
70°-80°	1028.0	7.8
80°-90°	57.9	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°	13152.0	100.0
0°-180°	13152.0	100.0

Coefficient of Utilization



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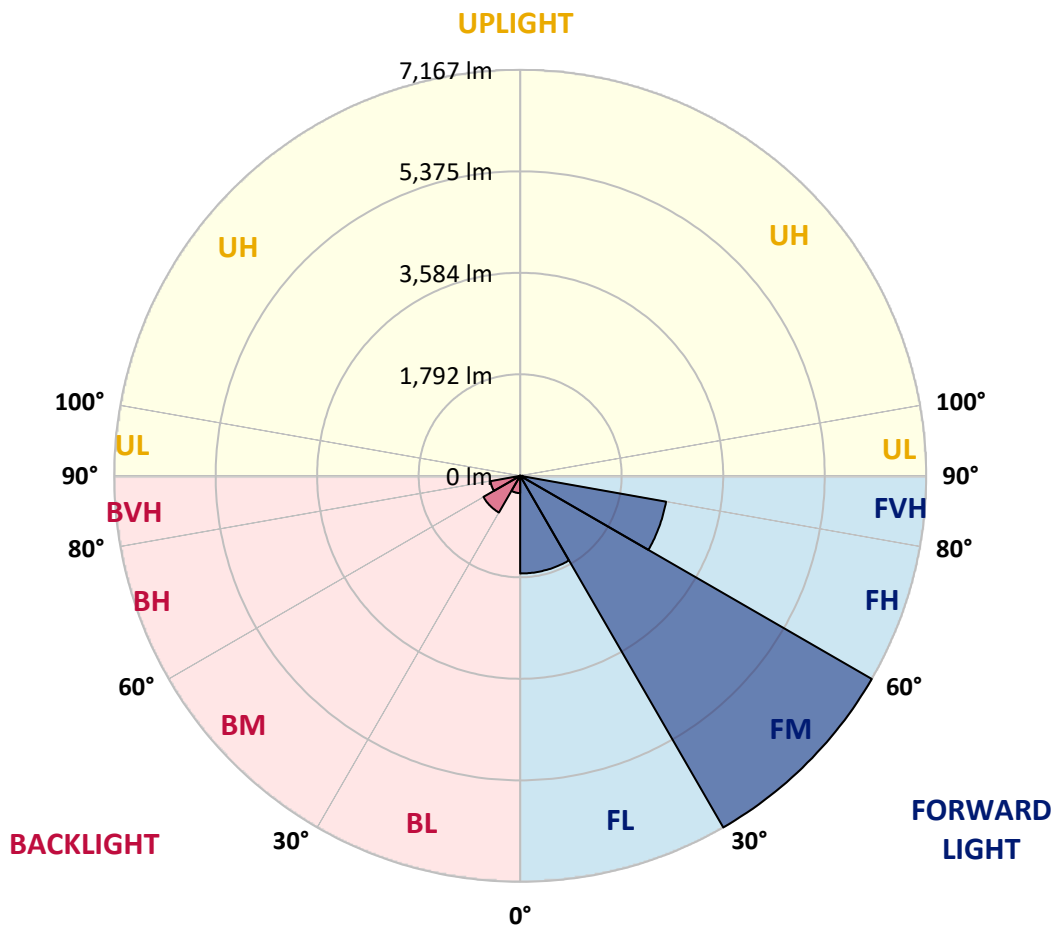
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1724.9	13.1			
FM	(30°-60°)	7167.2	54.5			
FH	(60°-80°)	2614.6	19.9			G2/5000
FVH	(80°-90°)	45.8	0.3			G1/100
BL	(0°-30°)	305.2	2.3	B1/500		
BM	(30°-60°)	748.5	5.7	B1/1000		
BH	(60°-80°)	533.8	4.1	B2/1000		G2/1000
BVH	(80°-90°)	12.0	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°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5
2.5°	2154.3	2116.5	2159.7	2154.3	2116.5	2092.2	2016.6	1992.3	1903.2	1838.4	1781.7
5°	2597.0	2559.2	2597.0	2586.2	2532.2	2472.8	2348.6	2267.7	2108.4	1968.0	1841.1
7.5°	2964.1	2964.1	2980.3	2983.0	2918.3	2826.5	2672.6	2551.1	2327.0	2111.1	1908.6
10°	3361.0	3363.7	3398.8	3374.5	3288.1	3163.9	2969.5	2815.7	2545.7	2262.3	1973.4
12.5°	3784.8	3787.5	3798.3	3787.5	3684.9	3525.7	3290.8	3088.3	2777.9	2435.0	2062.5
15°	4208.7	4211.4	4224.9	4206.0	4092.6	3906.3	3639.0	3390.7	3023.5	2629.4	2170.5
17.5°	4605.5	4610.9	4621.7	4597.4	4478.6	4257.3	3984.6	3684.9	3285.4	2837.3	2292.0
20°	4961.8	4967.2	4975.3	4942.9	4824.2	4602.8	4308.5	3995.4	3552.7	3050.5	2424.2
22.5°	5320.9	5326.3	5339.8	5296.6	5164.3	4910.6	4621.7	4297.7	3836.1	3285.4	2578.1
25°	5779.8	5785.2	5796.0	5733.9	5553.1	5256.1	4951.0	4619.0	4143.9	3550.0	2767.1
27.5°	6452.0	6446.6	6446.6	6333.2	6022.8	5636.7	5283.1	4945.6	4475.9	3833.4	2974.9
30°	7283.5	7270.0	7261.9	7108.0	6665.3	6066.0	5623.2	5250.7	4794.5	4133.1	3199.0
32.5°	8028.6	8028.6	8012.4	7850.4	7380.7	6643.7	5985.0	5547.7	5102.2	4435.4	3431.2
35°	8468.6	8487.5	8479.4	8357.9	8015.1	7264.6	6473.6	5904.0	5426.2	4751.3	3709.2
37.5°	8528.0	8565.8	8573.9	8501.0	8320.1	7772.1	7016.2	6290.0	5782.5	5091.4	3979.2
40°	8287.7	8368.7	8368.7	8357.9	8293.1	8012.4	7472.5	6738.2	6149.7	5445.1	4251.9
42.5°	7917.9	8001.6	7990.8	8031.3	8015.1	7955.7	7728.9	7156.6	6516.8	5809.5	4500.2
45°	7434.7	7521.1	7499.5	7572.3	7604.7	7669.5	7701.9	7448.2	6878.6	6206.4	4778.3
47.5°	6659.9	6805.7	6838.1	6967.6	7102.6	7305.1	7459.0	7553.4	7216.0	6632.9	5080.6
50°	5515.3	5720.4	5785.2	6057.9	6427.7	6846.2	7094.5	7423.9	7453.6	7070.2	5407.3
52.5°	3949.5	4187.1	4286.9	4735.1	5496.4	6225.3	6673.4	7137.7	7545.4	7488.7	5760.9
55°	2553.8	2756.3	2853.5	3274.6	4286.9	5431.6	6176.7	6767.9	7494.1	7872.0	6165.9
57.5°	1573.9	1689.9	1754.7	2116.5	3047.8	4413.8	5526.1	6427.7	7337.5	8204.1	6587.0
60°	1060.9	1128.4	1160.8	1330.9	2070.6	3298.9	4632.5	6071.4	7132.3	8428.1	6970.3
62.5°	704.6	726.2	758.6	863.9	1366.0	2316.2	3558.1	5434.3	6978.4	8441.6	7253.8
65°	545.3	556.1	569.6	615.5	842.3	1619.8	2502.5	4403.0	6749.0	8155.5	7342.9
67.5°	429.2	440.0	456.2	480.5	610.1	1098.7	1703.4	3226.0	6279.2	7707.3	7197.1
70°	337.4	345.5	356.3	377.9	475.1	796.4	1125.7	2143.5	5331.7	7280.8	6738.2
72.5°	267.3	275.4	286.2	307.8	386.0	583.1	772.1	1336.3	4111.5	6759.8	5855.4
75°	210.6	216.0	224.1	245.7	310.5	453.5	523.7	799.1	2794.1	5806.8	4562.3
77.5°	105.3	129.6	148.5	170.1	226.8	313.2	348.2	442.7	1179.7	2980.3	2175.9
80°	62.1	75.6	81.0	94.5	148.5	189.0	189.0	178.2	372.5	1144.6	888.2
82.5°	35.1	48.6	51.3	54.0	89.1	108.0	86.4	64.8	75.6	383.3	259.2
85°	10.8	16.2	18.9	21.6	29.7	32.4	29.7	27.0	21.6	37.8	24.3
87.5°	0.0	0.0	0.0	0.0	2.7	5.4	5.4	5.4	8.1	8.1	8.1
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°	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5	1738.5
2.5°	1749.3	1714.2	1646.7	1584.7	1525.3	1482.1	1441.6	1403.8	1376.8	1355.2	1352.5
5°	1773.6	1703.4	1573.9	1452.4	1341.7	1249.9	1171.6	1109.5	1063.6	1031.2	1028.5
7.5°	1806.0	1698.0	1501.0	1320.1	1155.4	1023.1	909.8	826.1	766.7	742.4	723.5
10°	1833.0	1692.6	1428.1	1187.8	971.9	804.5	669.5	585.8	542.6	526.4	518.3
12.5°	1878.9	1698.0	1366.0	1066.3	812.6	615.5	512.9	467.0	448.1	434.6	431.9
15°	1946.4	1722.3	1306.6	947.6	650.6	496.7	437.3	407.6	388.7	386.0	383.3
17.5°	2013.9	1743.9	1252.6	826.1	539.9	431.9	391.4	367.1	353.6	350.9	350.9
20°	2092.2	1770.9	1193.2	710.0	461.6	388.7	356.3	337.4	321.3	318.6	318.6
22.5°	2184.0	1808.7	1136.5	607.4	410.3	356.3	329.3	307.8	294.3	291.6	291.6
25°	2308.1	1865.4	1090.6	531.8	375.2	329.3	305.1	286.2	275.4	270.0	270.0
27.5°	2445.8	1943.7	1058.2	485.9	350.9	307.8	283.5	267.3	256.5	251.1	251.1
30°	2599.7	2030.1	1036.6	467.0	337.4	288.9	267.3	251.1	237.6	234.9	234.9
32.5°	2769.8	2130.0	1023.1	469.7	334.7	275.4	251.1	234.9	224.1	218.7	218.7
35°	2958.7	2240.7	1015.0	485.9	340.1	264.6	237.6	221.4	210.6	205.2	205.2
37.5°	3169.3	2370.2	1015.0	502.1	353.6	261.9	224.1	207.9	199.8	194.4	194.4
40°	3366.4	2507.9	1025.8	521.0	367.1	261.9	213.3	199.8	189.0	183.6	183.6
42.5°	3520.3	2586.2	1033.9	539.9	375.2	259.2	202.5	189.0	180.9	175.5	175.5
45°	3695.7	2669.9	1017.7	548.0	375.2	253.8	194.4	180.9	172.8	167.4	167.4
47.5°	3890.1	2772.5	1015.0	553.4	367.1	243.0	186.3	172.8	167.4	162.0	162.0
50°	4087.2	2885.9	1020.4	550.7	356.3	226.8	175.5	167.4	159.3	153.9	153.9
52.5°	4311.2	3004.6	1031.2	545.3	332.0	207.9	167.4	159.3	151.2	145.8	143.1
55°	4559.6	3134.2	1052.8	534.5	299.7	189.0	159.3	151.2	140.4	135.0	132.3
57.5°	4845.8	3293.5	1077.1	512.9	264.6	172.8	151.2	140.4	124.2	116.1	113.4
60°	5118.4	3474.4	1104.1	461.6	229.5	156.6	143.1	126.9	110.7	105.3	102.6
62.5°	5374.9	3652.5	1117.6	369.8	194.4	143.1	135.0	116.1	99.9	94.5	91.8
65°	5539.6	3846.9	1087.9	251.1	159.3	132.3	124.2	108.0	91.8	83.7	83.7
67.5°	5550.4	3938.7	985.3	164.7	129.6	118.8	113.4	97.2	81.0	75.6	72.9
70°	5277.7	3801.0	753.2	129.6	108.0	102.6	102.6	86.4	70.2	64.8	62.1
72.5°	4651.4	3366.4	480.5	105.3	91.8	86.4	86.4	72.9	62.1	54.0	51.3
75°	3671.4	2597.0	256.5	86.4	75.6	72.9	67.5	59.4	51.3	45.9	43.2
77.5°	1687.2	1144.6	118.8	62.1	56.7	56.7	51.3	43.2	40.5	35.1	35.1
80°	666.8	388.7	59.4	40.5	37.8	37.8	37.8	29.7	29.7	24.3	21.6
82.5°	183.6	81.0	29.7	24.3	24.3	24.3	21.6	18.9	18.9	16.2	16.2
85°	18.9	13.5	13.5	13.5	13.5	10.8	10.8	8.1	5.4	5.4	5.4
87.5°	8.1	8.1	8.1	8.1	8.1	5.4	2.7	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)