

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: P835883

Luminaire Tested: **ARCH3-110-727-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835883
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: ARCH3-110-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA 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: 11544 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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

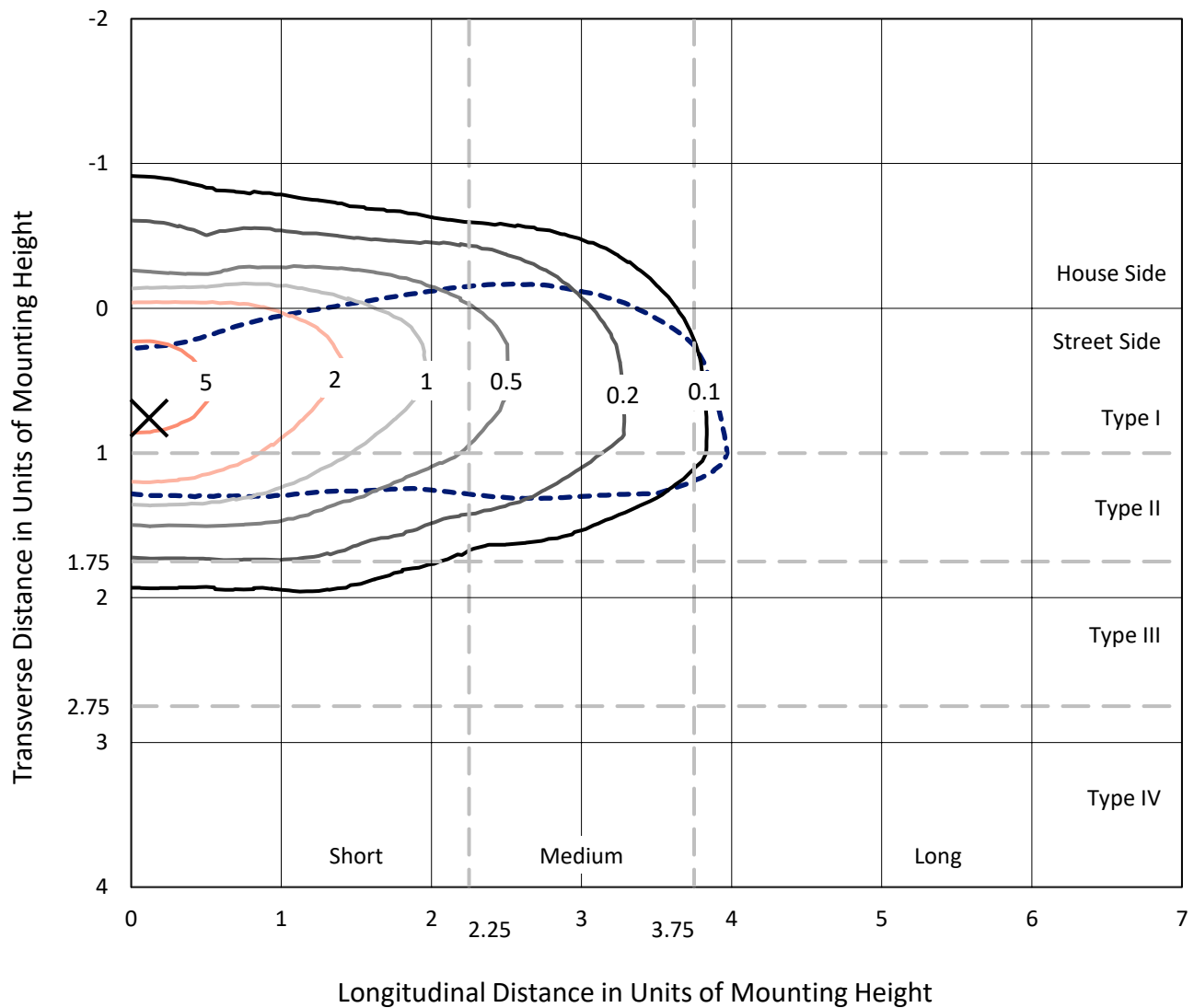


REPORT NUMBER: P835883

CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

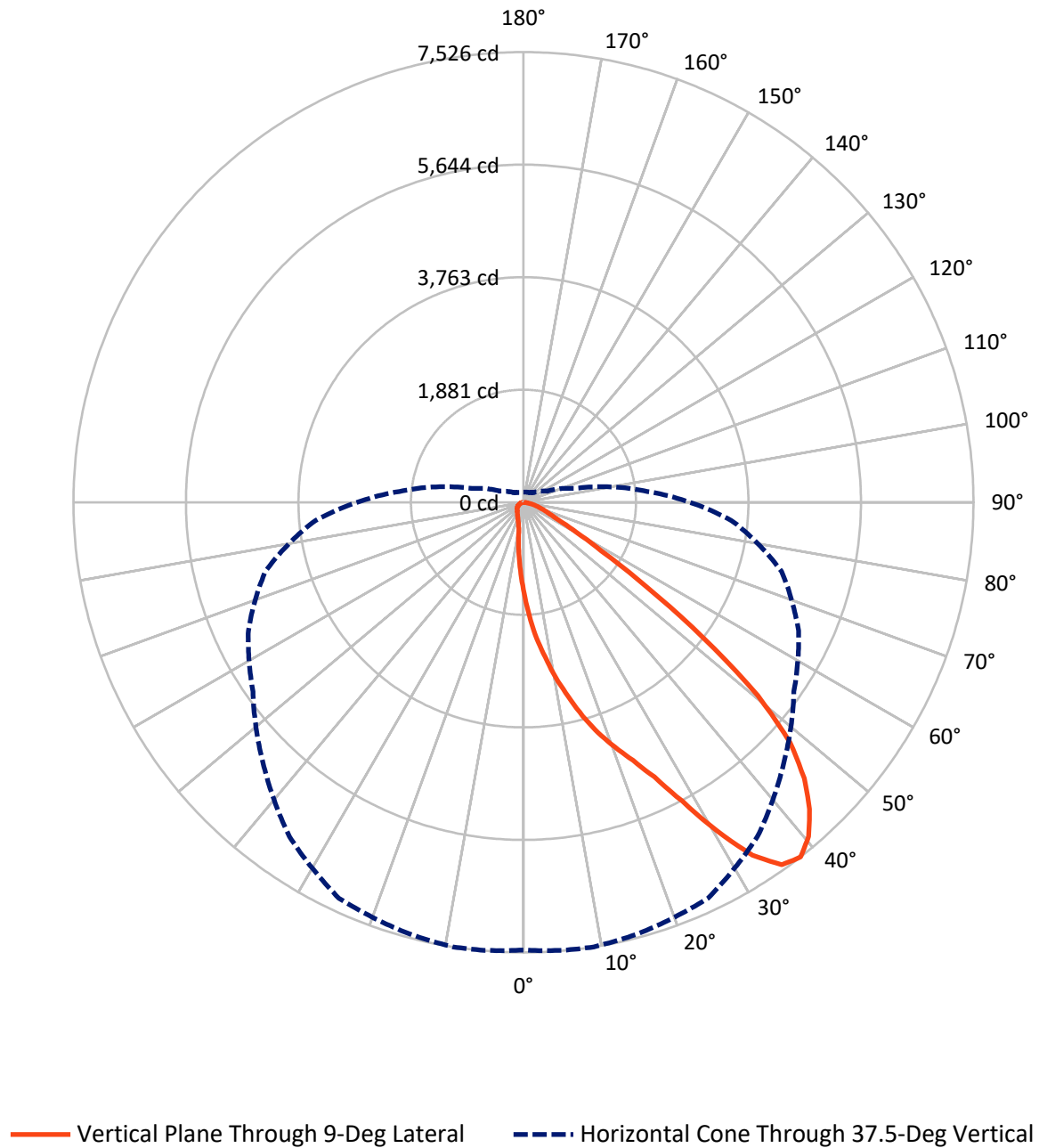
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Short - N/A

REPORT NUMBER: P835883
CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835883

CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

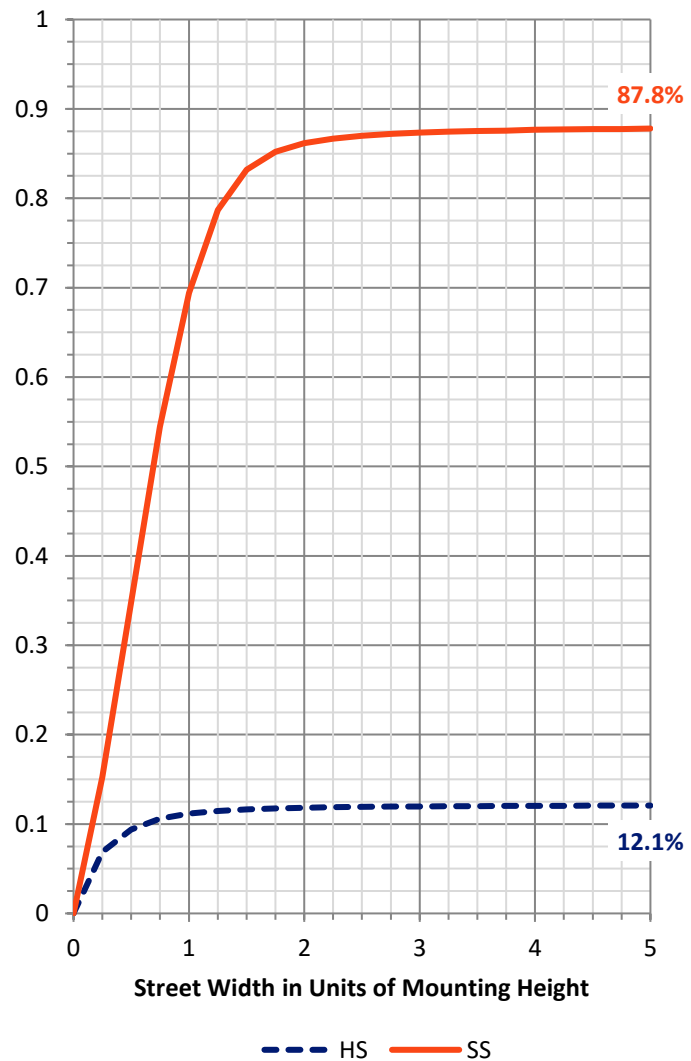
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1404.0	0.0	1404.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10140.0	0.0	10140.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	11544.0	0.0	11544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.3
10°-20°	533.1	4.6
20°-30°	1095.4	9.5
30°-40°	1936.2	16.8
40°-50°	2572.1	22.3
50°-60°	2439.5	21.1
60°-70°	1861.1	16.1
70°-80°	902.3	7.8
80°-90°	50.8	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°	11544.0	100.0
0°-180°	11544.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835883

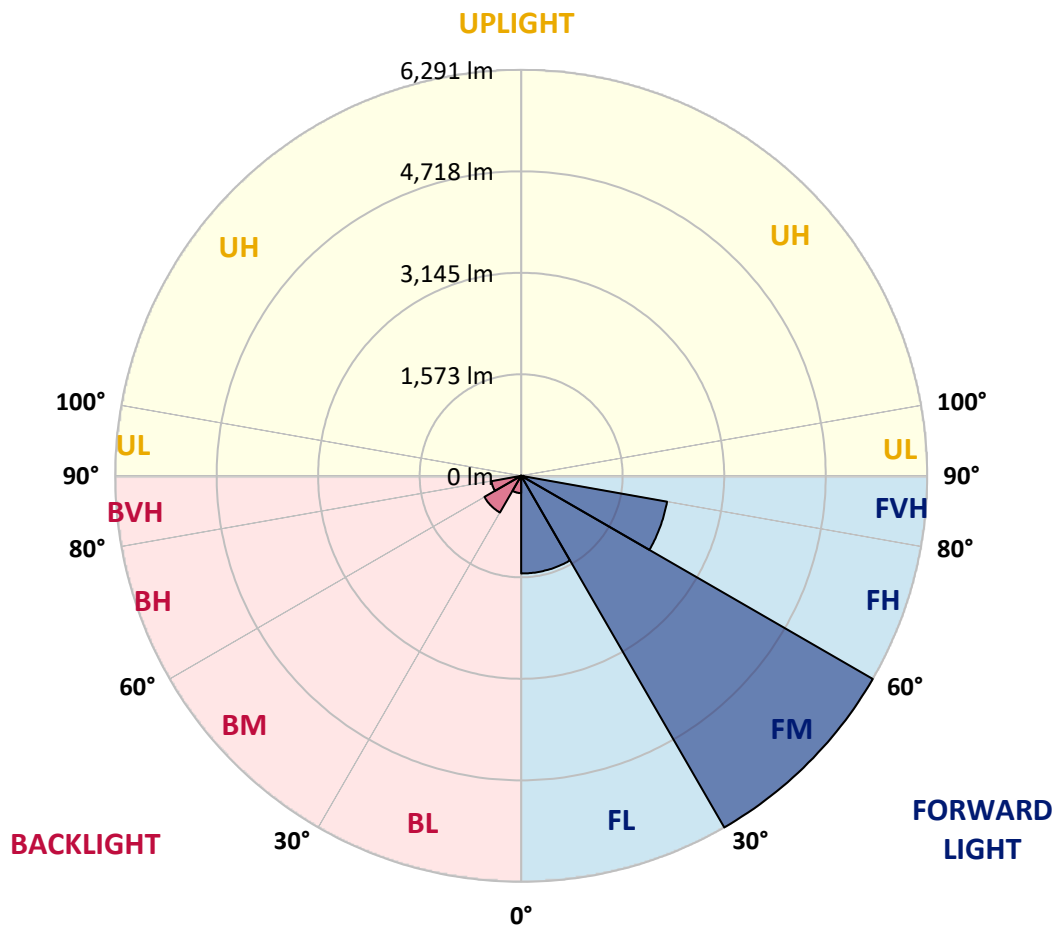
CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1514.0	13.1			
FM	(30°-60°)	6290.9	54.5			
FH	(60°-80°)	2294.9	19.9			G2/5000
FVH	(80°-90°)	40.2	0.3			G1/100
BL	(0°-30°)	267.9	2.3	B1/500		
BM	(30°-60°)	657.0	5.7	B1/1000		
BH	(60°-80°)	468.5	4.1	B1/500		G1/500
BVH	(80°-90°)	10.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P835883

CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0
2.5°	1890.9	1857.7	1895.6	1890.9	1857.7	1836.4	1770.0	1748.7	1670.5	1613.6	1563.9
5°	2279.5	2246.3	2279.5	2270.0	2222.6	2170.5	2061.5	1990.4	1850.6	1727.4	1616.0
7.5°	2601.7	2601.7	2616.0	2618.3	2561.5	2480.9	2345.8	2239.2	2042.5	1853.0	1675.3
10°	2950.1	2952.4	2983.2	2961.9	2886.1	2777.1	2606.5	2471.4	2234.5	1985.7	1732.1
12.5°	3322.1	3324.5	3333.9	3324.5	3234.4	3094.6	2888.5	2710.7	2438.2	2137.3	1810.3
15°	3694.1	3696.5	3708.3	3691.7	3592.2	3428.7	3194.1	2976.1	2653.9	2307.9	1905.1
17.5°	4042.4	4047.2	4056.6	4035.3	3931.0	3736.7	3497.4	3234.4	2883.7	2490.4	2011.7
20°	4355.2	4359.9	4367.0	4338.6	4234.3	4040.0	3781.8	3506.9	3118.3	2677.6	2127.8
22.5°	4670.3	4675.1	4686.9	4649.0	4532.9	4310.2	4056.6	3772.3	3367.1	2883.7	2262.9
25°	5073.2	5077.9	5087.4	5032.9	4874.1	4613.5	4345.7	4054.3	3637.2	3115.9	2428.8
27.5°	5663.2	5658.4	5658.4	5558.9	5286.4	4947.6	4637.2	4341.0	3928.7	3364.7	2611.2
30°	6393.0	6381.1	6374.0	6239.0	5850.4	5324.3	4935.7	4608.7	4208.3	3627.7	2807.9
32.5°	7047.0	7047.0	7032.8	6890.6	6478.3	5831.4	5253.2	4869.4	4478.4	3893.1	3011.7
35°	7433.2	7449.8	7442.7	7336.1	7035.1	6376.4	5682.1	5182.2	4762.8	4170.4	3255.7
37.5°	7485.3	7518.5	7525.6	7461.6	7302.9	6821.9	6158.4	5521.0	5075.5	4468.9	3492.7
40°	7274.5	7345.5	7345.5	7336.1	7279.2	7032.8	6558.9	5914.3	5397.8	4779.3	3732.0
42.5°	6949.8	7023.3	7013.8	7049.4	7035.1	6983.0	6784.0	6281.6	5720.0	5099.2	3950.0
45°	6525.7	6601.5	6582.6	6646.5	6675.0	6731.8	6760.3	6537.5	6037.6	5447.5	4194.1
47.5°	5845.6	5973.6	6002.0	6115.8	6234.2	6411.9	6547.0	6629.9	6333.8	5821.9	4459.5
50°	4840.9	5021.0	5077.9	5317.2	5641.9	6009.1	6227.1	6516.2	6542.3	6205.8	4746.2
52.5°	3466.6	3675.1	3762.8	4156.2	4824.4	5464.1	5857.5	6265.0	6622.8	6573.1	5056.6
55°	2241.6	2419.3	2504.6	2874.2	3762.8	4767.5	5421.5	5940.4	6577.8	6909.5	5412.0
57.5°	1381.4	1483.3	1540.2	1857.7	2675.2	3874.2	4850.4	5641.9	6440.4	7201.0	5781.7
60°	931.2	990.5	1018.9	1168.2	1817.4	2895.6	4066.1	5329.1	6260.3	7397.7	6118.1
62.5°	618.4	637.4	665.8	758.2	1199.0	2033.1	3123.0	4769.9	6125.2	7409.5	6366.9
65°	478.6	488.1	500.0	540.3	739.3	1421.7	2196.6	3864.7	5923.8	7158.3	6445.1
67.5°	376.8	386.2	400.5	421.8	535.5	964.4	1495.2	2831.6	5511.5	6765.0	6317.2
70°	296.2	303.3	312.8	331.7	417.0	699.0	988.1	1881.4	4679.8	6390.6	5914.3
72.5°	234.6	241.7	251.2	270.1	338.8	511.8	677.7	1172.9	3608.8	5933.3	5139.5
75°	184.8	189.6	196.7	215.6	272.5	398.1	459.7	701.4	2452.5	5096.9	4004.5
77.5°	92.4	113.7	130.3	149.3	199.0	274.9	305.7	388.6	1035.5	2616.0	1909.8
80°	54.5	66.3	71.1	82.9	130.3	165.9	165.9	156.4	327.0	1004.7	779.6
82.5°	30.8	42.7	45.0	47.4	78.2	94.8	75.8	56.9	66.3	336.5	227.5
85°	9.5	14.2	16.6	19.0	26.1	28.4	26.1	23.7	19.0	33.2	21.3
87.5°	0.0	0.0	0.0	0.0	2.4	4.7	4.7	4.7	7.1	7.1	7.1
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: P835883

CATALOG NUMBER: ARCH3-110-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0	1526.0
2.5°	1535.5	1504.7	1445.4	1390.9	1338.8	1300.9	1265.3	1232.2	1208.5	1189.5	1187.1
5°	1556.8	1495.2	1381.4	1274.8	1177.7	1097.1	1028.4	973.9	933.6	905.2	902.8
7.5°	1585.2	1490.4	1317.5	1158.7	1014.2	898.1	798.5	725.1	672.9	651.6	635.0
10°	1608.9	1485.7	1253.5	1042.6	853.0	706.1	587.6	514.2	476.3	462.1	454.9
12.5°	1649.2	1490.4	1199.0	936.0	713.2	540.3	450.2	409.9	393.3	381.5	379.1
15°	1708.4	1511.8	1146.9	831.7	571.1	436.0	383.9	357.8	341.2	338.8	336.5
17.5°	1767.7	1530.7	1099.5	725.1	473.9	379.1	343.6	322.3	310.4	308.0	308.0
20°	1836.4	1554.4	1047.3	623.2	405.2	341.2	312.8	296.2	282.0	279.6	279.6
22.5°	1916.9	1587.6	997.6	533.1	360.2	312.8	289.1	270.1	258.3	255.9	255.9
25°	2025.9	1637.3	957.3	466.8	329.4	289.1	267.8	251.2	241.7	237.0	237.0
27.5°	2146.8	1706.1	928.9	426.5	308.0	270.1	248.8	234.6	225.1	220.4	220.4
30°	2281.9	1781.9	909.9	409.9	296.2	253.5	234.6	220.4	208.5	206.1	206.1
32.5°	2431.1	1869.6	898.1	412.3	293.8	241.7	220.4	206.1	196.7	191.9	191.9
35°	2597.0	1966.7	890.9	426.5	298.6	232.2	208.5	194.3	184.8	180.1	180.1
37.5°	2781.8	2080.4	890.9	440.7	310.4	229.8	196.7	182.5	175.3	170.6	170.6
40°	2954.8	2201.3	900.4	457.3	322.3	229.8	187.2	175.3	165.9	161.1	161.1
42.5°	3089.9	2270.0	907.5	473.9	329.4	227.5	177.7	165.9	158.8	154.0	154.0
45°	3243.9	2343.5	893.3	481.0	329.4	222.7	170.6	158.8	151.6	146.9	146.9
47.5°	3414.5	2433.5	890.9	485.8	322.3	213.3	163.5	151.6	146.9	142.2	142.2
50°	3587.5	2533.0	895.7	483.4	312.8	199.0	154.0	146.9	139.8	135.1	135.1
52.5°	3784.1	2637.3	905.2	478.6	291.5	182.5	146.9	139.8	132.7	128.0	125.6
55°	4002.1	2751.0	924.1	469.2	263.0	165.9	139.8	132.7	123.2	118.5	116.1
57.5°	4253.3	2890.8	945.4	450.2	232.2	151.6	132.7	123.2	109.0	101.9	99.5
60°	4492.6	3049.6	969.1	405.2	201.4	137.4	125.6	111.4	97.2	92.4	90.0
62.5°	4717.7	3206.0	981.0	324.6	170.6	125.6	118.5	101.9	87.7	82.9	80.6
65°	4862.3	3376.6	954.9	220.4	139.8	116.1	109.0	94.8	80.6	73.5	73.5
67.5°	4871.8	3457.1	864.9	144.5	113.7	104.3	99.5	85.3	71.1	66.3	64.0
70°	4632.4	3336.3	661.1	113.7	94.8	90.0	90.0	75.8	61.6	56.9	54.5
72.5°	4082.7	2954.8	421.8	92.4	80.6	75.8	75.8	64.0	54.5	47.4	45.0
75°	3222.6	2279.5	225.1	75.8	66.3	64.0	59.2	52.1	45.0	40.3	37.9
77.5°	1481.0	1004.7	104.3	54.5	49.8	49.8	45.0	37.9	35.5	30.8	30.8
80°	585.3	341.2	52.1	35.5	33.2	33.2	33.2	26.1	26.1	21.3	19.0
82.5°	161.1	71.1	26.1	21.3	21.3	21.3	19.0	16.6	16.6	14.2	14.2
85°	16.6	11.8	11.8	11.8	11.8	9.5	9.5	7.1	4.7	4.7	4.7
87.5°	7.1	7.1	7.1	7.1	7.1	4.7	2.4	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)