

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: P1210814

Luminaire Tested: **ARCH3-80-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9022 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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



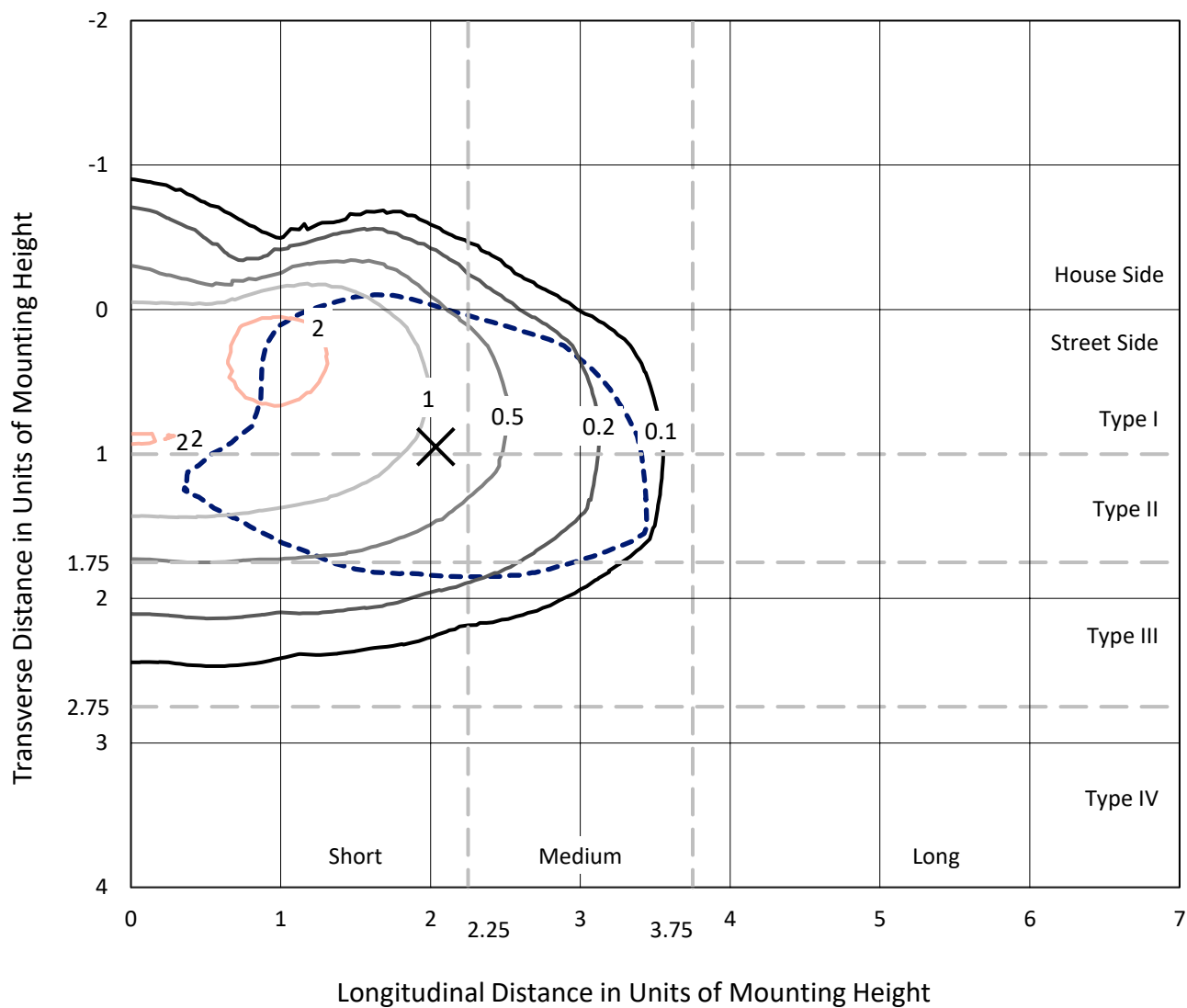
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

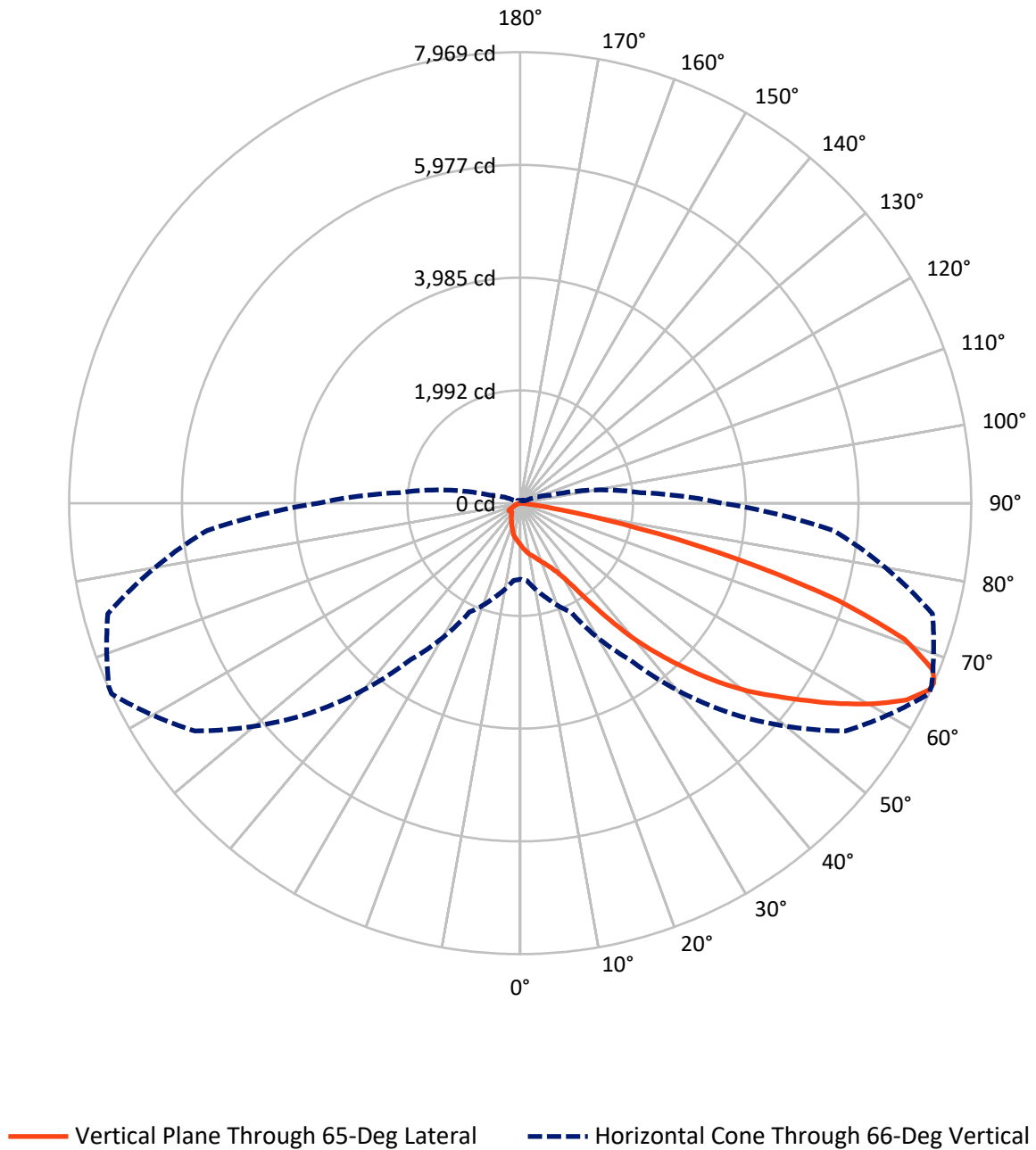
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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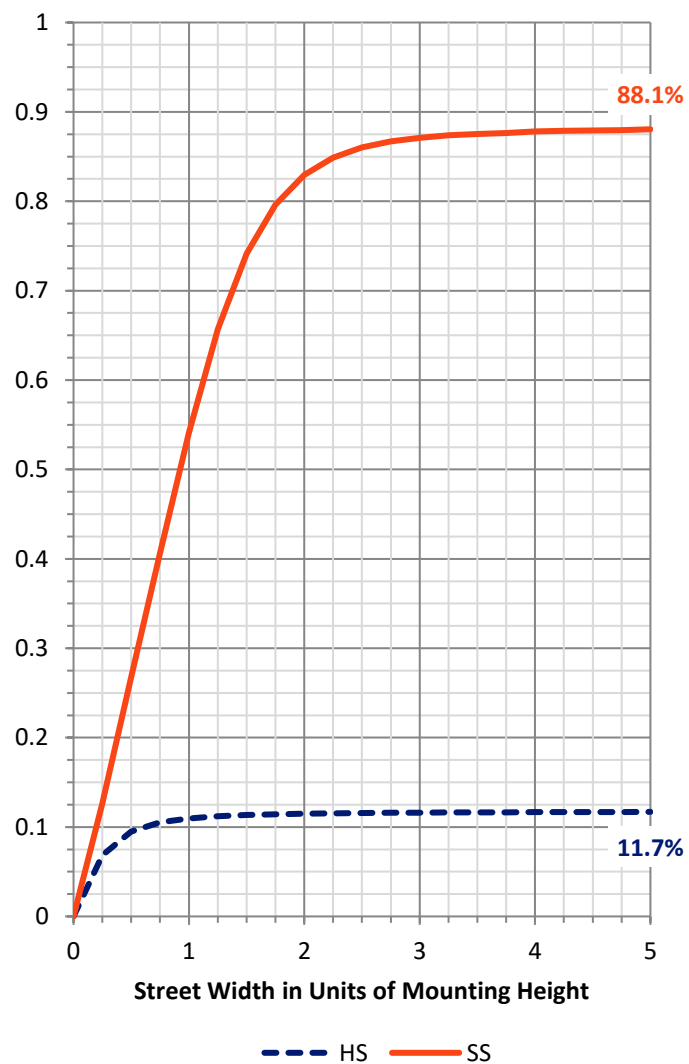
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.8	0.0	1064.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7957.2	0.0	7957.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	9022.0	0.0	9022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	0.8
10°-20°	206.3	2.3
20°-30°	377.6	4.2
30°-40°	767.2	8.5
40°-50°	1620.1	18.0
50°-60°	2490.6	27.6
60°-70°	2507.0	27.8
70°-80°	936.7	10.4
80°-90°	46.8	0.5
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°	9022.0	100.0
0°-180°	9022.0	100.0

Coefficient of Utilization



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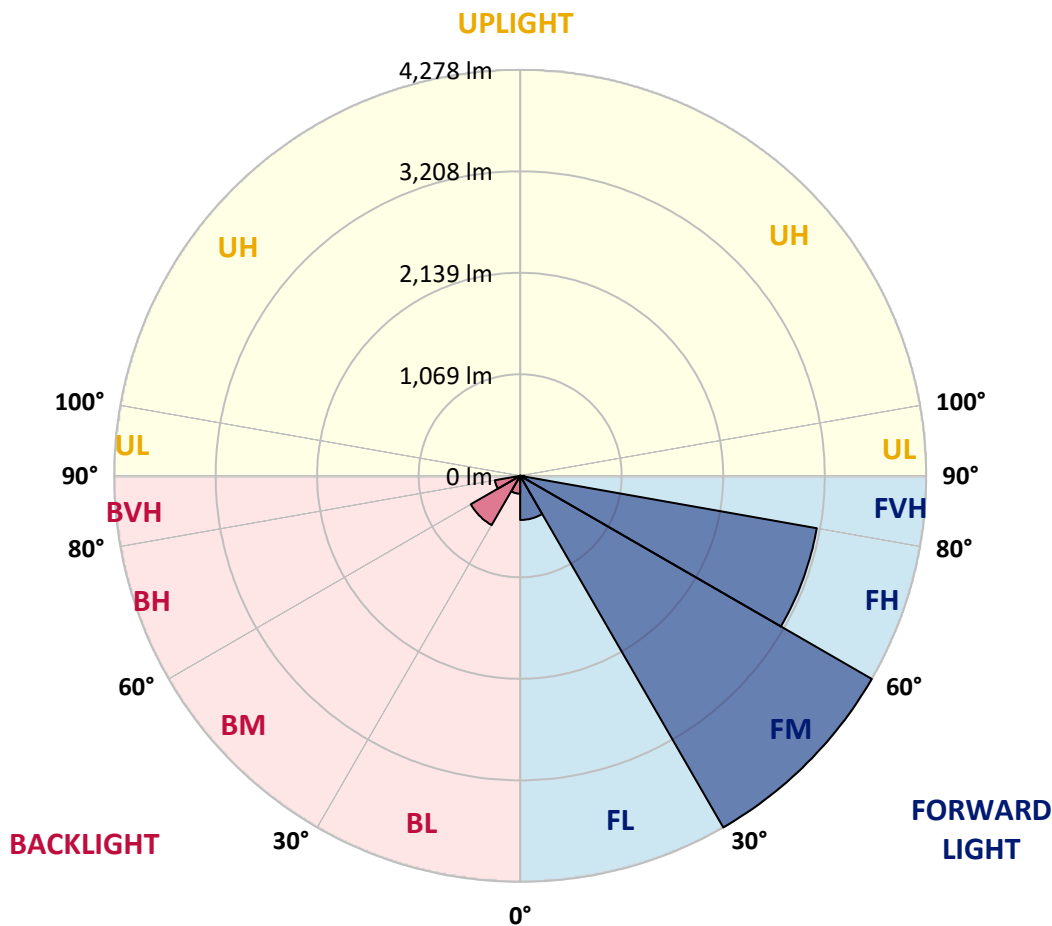
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.1	5.2			
FM	(30°-60°)	4277.6	47.4			
FH	(60°-80°)	3173.3	35.2			G2/5000
FVH	(80°-90°)	41.3	0.5			G1/100
BL	(0°-30°)	188.5	2.1	B1/500		
BM	(30°-60°)	600.3	6.7	B1/1000		
BH	(60°-80°)	270.5	3.0	B1/500		G1/500
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	838.2	839.8	836.5	830.0	823.4	815.3	802.2	780.9	777.6	762.9	746.5
5°	895.5	898.7	893.8	892.2	888.9	877.5	859.5	828.4	825.1	795.6	758.0
7.5°	915.1	920.0	916.8	916.8	916.8	911.8	903.7	875.8	870.9	833.3	776.0
10°	929.8	933.1	931.5	938.0	942.9	939.7	934.8	918.4	913.5	875.8	800.5
12.5°	952.8	954.4	956.0	959.3	967.5	970.8	969.1	954.4	951.1	924.9	831.6
15°	974.0	974.0	975.7	990.4	1001.9	1008.4	1010.1	998.6	995.3	974.0	870.9
17.5°	993.7	995.3	1000.2	1016.6	1036.3	1049.4	1057.5	1052.6	1047.7	1031.3	916.8
20°	1023.2	1026.4	1031.3	1054.3	1073.9	1095.2	1111.6	1109.9	1108.3	1096.8	970.8
22.5°	1073.9	1077.2	1085.4	1106.7	1126.3	1152.5	1180.3	1178.7	1173.8	1165.6	1034.6
25°	1150.9	1150.9	1155.8	1173.8	1198.3	1229.4	1255.6	1260.5	1255.6	1250.7	1114.8
27.5°	1247.4	1249.1	1249.1	1268.7	1291.6	1330.9	1363.7	1368.6	1368.6	1363.7	1222.9
30°	1381.7	1376.8	1373.5	1389.9	1414.4	1471.7	1529.0	1538.8	1533.9	1542.1	1375.1
32.5°	1612.5	1604.3	1576.5	1579.8	1594.5	1673.1	1769.7	1804.0	1802.4	1817.1	1620.7
35°	1931.7	1915.4	1874.4	1840.1	1838.4	1923.5	2070.9	2200.2	2198.6	2249.3	1993.9
37.5°	2291.9	2313.2	2236.2	2177.3	2159.3	2226.4	2416.3	2696.2	2711.0	2799.4	2483.4
40°	2773.2	2786.3	2688.0	2604.6	2519.4	2544.0	2794.5	3229.9	3256.1	3354.3	2972.9
42.5°	3192.3	3205.4	3148.1	3046.6	2938.5	2892.7	3175.9	3714.5	3735.8	3871.6	3477.1
45°	3477.1	3486.9	3506.6	3516.4	3393.6	3298.7	3642.5	4212.2	4238.3	4395.5	3969.9
47.5°	3699.8	3707.9	3747.2	3845.4	3820.9	3745.6	4117.2	4729.5	4736.0	4911.2	4449.5
50°	3802.9	3822.5	3919.1	4069.7	4177.8	4199.1	4632.9	5218.9	5236.9	5403.9	4903.0
52.5°	3688.3	3694.8	3938.8	4222.0	4439.7	4655.8	5150.2	5672.4	5724.8	5849.2	5310.6
55°	3301.9	3349.4	3719.4	4217.1	4646.0	5089.6	5703.5	6161.9	6209.4	6287.9	5669.1
57.5°	2853.4	2905.8	3356.0	4005.9	4734.4	5490.7	6215.9	6682.5	6715.2	6736.5	5998.2
60°	2465.4	2514.5	2977.8	3601.5	4646.0	5773.9	6692.3	7199.8	7227.6	7170.3	6163.5
62.5°	1989.0	2038.1	2504.7	3066.2	4298.9	5831.2	7045.9	7659.8	7671.3	7515.7	6062.0
65°	1499.5	1532.3	1921.9	2403.2	3691.6	5526.7	7126.1	7946.3	7934.8	7615.6	5757.5
66°	1344.0	1371.9	1715.6	2124.9	3375.6	5248.4	7018.1	7969.2	7957.7	7541.9	5557.8
67.5°	1159.0	1167.2	1450.4	1738.6	2823.9	4657.4	6689.0	7864.4	7874.3	7338.9	5192.7
70°	905.3	903.7	1067.4	1209.8	1928.5	3313.4	5579.1	7204.7	7252.2	6572.8	4428.2
72.5°	579.5	559.9	654.8	740.0	1123.0	1923.5	4068.1	5872.1	5952.3	5163.3	3298.7
75°	345.4	325.8	348.7	370.0	538.6	924.9	2391.7	3996.1	4073.0	3310.1	1962.8
77.5°	258.7	250.5	252.1	234.1	239.0	347.1	1091.9	2111.8	2167.5	1355.5	744.9
80°	198.1	176.8	165.3	173.5	157.2	137.5	406.0	726.9	761.2	320.9	155.5
82.5°	132.6	114.6	106.4	116.2	99.9	76.9	98.2	140.8	137.5	86.8	60.6
85°	68.8	58.9	58.9	58.9	50.7	37.7	42.6	57.3	57.3	45.8	36.0
87.5°	19.6	18.0	21.3	19.6	14.7	14.7	16.4	19.6	19.6	18.0	16.4
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°	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0	735.0
2.5°	733.4	726.9	708.8	695.7	682.7	671.2	658.1	654.8	648.3	649.9	646.6
5°	738.3	720.3	689.2	659.7	636.8	617.2	592.6	582.8	569.7	564.8	561.5
7.5°	744.9	718.7	672.8	631.9	592.6	553.3	514.0	491.1	476.4	469.8	464.9
10°	759.6	725.2	664.6	600.8	533.7	478.0	438.7	422.4	412.5	410.9	409.3
12.5°	779.2	735.0	656.5	561.5	473.1	420.7	396.2	391.3	389.6	389.6	388.0
15°	808.7	751.4	643.4	515.7	425.6	389.6	378.2	370.0	366.7	366.7	366.7
17.5°	838.2	771.1	623.7	468.2	392.9	370.0	358.5	353.6	350.3	352.0	350.3
20°	875.8	794.0	597.5	427.3	371.6	353.6	342.1	337.2	335.6	335.6	335.6
22.5°	918.4	820.2	564.8	396.2	353.6	337.2	325.8	320.9	317.6	319.2	319.2
25°	975.7	852.9	530.4	365.1	335.6	320.9	307.8	301.2	301.2	302.9	304.5
27.5°	1049.4	892.2	496.0	345.4	319.2	304.5	289.8	283.2	284.8	288.1	288.1
30°	1157.4	946.2	461.7	324.1	301.2	284.8	271.8	265.2	268.5	275.0	275.0
32.5°	1311.3	1034.6	432.2	299.6	275.0	257.0	243.9	239.0	247.2	260.3	260.3
35°	1586.3	1196.7	414.2	275.0	247.2	225.9	209.5	204.6	216.1	232.5	232.5
37.5°	1954.6	1457.0	420.7	253.7	224.3	199.7	181.7	175.2	183.4	198.1	203.0
40°	2365.5	1771.3	478.0	235.7	203.0	178.4	160.4	153.9	158.8	165.3	167.0
42.5°	2776.5	2105.3	586.1	222.6	186.6	160.4	144.1	139.1	142.4	144.1	145.7
45°	3185.7	2435.9	721.9	214.5	171.9	145.7	129.3	129.3	131.0	131.0	131.0
47.5°	3573.7	2758.4	864.4	212.8	158.8	131.0	117.9	119.5	119.5	121.1	121.1
50°	3940.4	3046.6	1008.4	217.7	147.3	117.9	108.0	108.0	108.0	109.7	108.0
52.5°	4246.5	3298.7	1159.0	225.9	135.9	108.0	98.2	98.2	98.2	99.9	98.2
55°	4536.3	3527.9	1312.9	237.4	126.1	99.9	90.0	86.8	86.8	88.4	86.8
57.5°	4772.0	3680.1	1458.6	239.0	117.9	91.7	83.5	78.6	78.6	78.6	78.6
60°	4781.8	3591.7	1501.2	209.5	108.0	83.5	75.3	68.8	70.4	70.4	70.4
62.5°	4469.2	3126.8	1206.5	157.2	96.6	75.3	68.8	62.2	62.2	62.2	62.2
65°	3855.3	2432.7	707.2	124.4	83.5	67.1	60.6	55.7	55.7	55.7	54.0
66°	3567.1	2133.1	541.9	113.0	78.6	65.5	58.9	54.0	52.4	50.7	50.7
67.5°	3097.3	1686.2	338.9	99.9	72.0	60.6	54.0	49.1	47.5	45.8	45.8
70°	2332.8	1070.6	165.3	76.9	62.2	52.4	47.5	42.6	40.9	39.3	37.7
72.5°	1637.1	627.0	86.8	58.9	50.7	45.8	40.9	36.0	34.4	32.7	32.7
75°	924.9	302.9	57.3	42.6	40.9	37.7	34.4	29.5	27.8	27.8	27.8
77.5°	350.3	104.8	39.3	31.1	32.7	29.5	24.6	24.6	22.9	24.6	22.9
80°	91.7	45.8	24.6	22.9	24.6	21.3	18.0	19.6	19.6	19.6	19.6
82.5°	49.1	26.2	14.7	16.4	14.7	14.7	11.5	13.1	14.7	13.1	14.7
85°	34.4	13.1	8.2	8.2	6.5	6.5	4.9	6.5	8.2	6.5	6.5
87.5°	18.0	4.9	4.9	4.9	4.9	3.3	1.6	0.0	1.6	1.6	1.6
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)