

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: P1210822

Luminaire Tested: **ARCH3-80-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210822
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: ARCH3-80-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 9473 lumens
Efficiency: N/A
Efficacy: 115.7 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

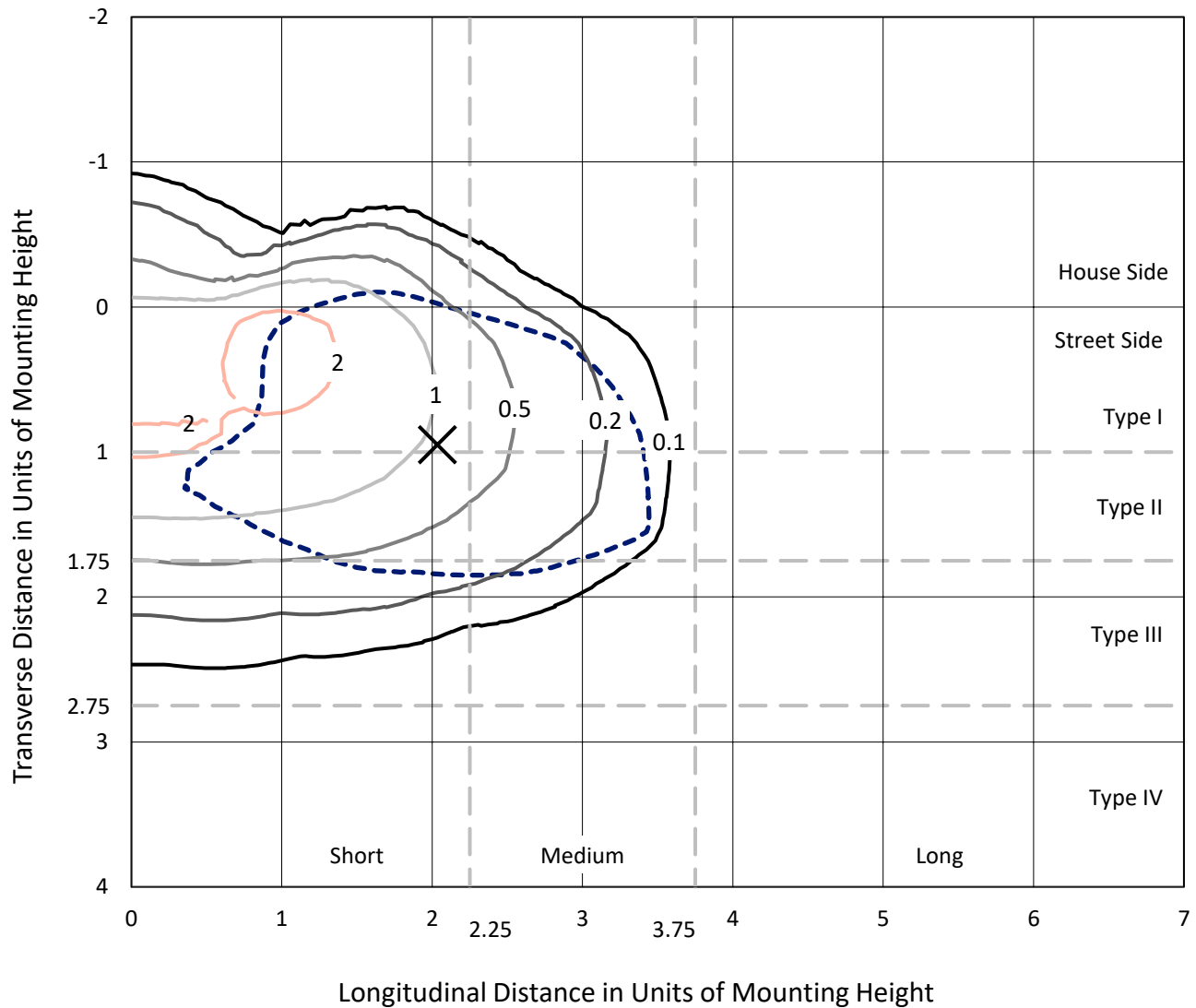


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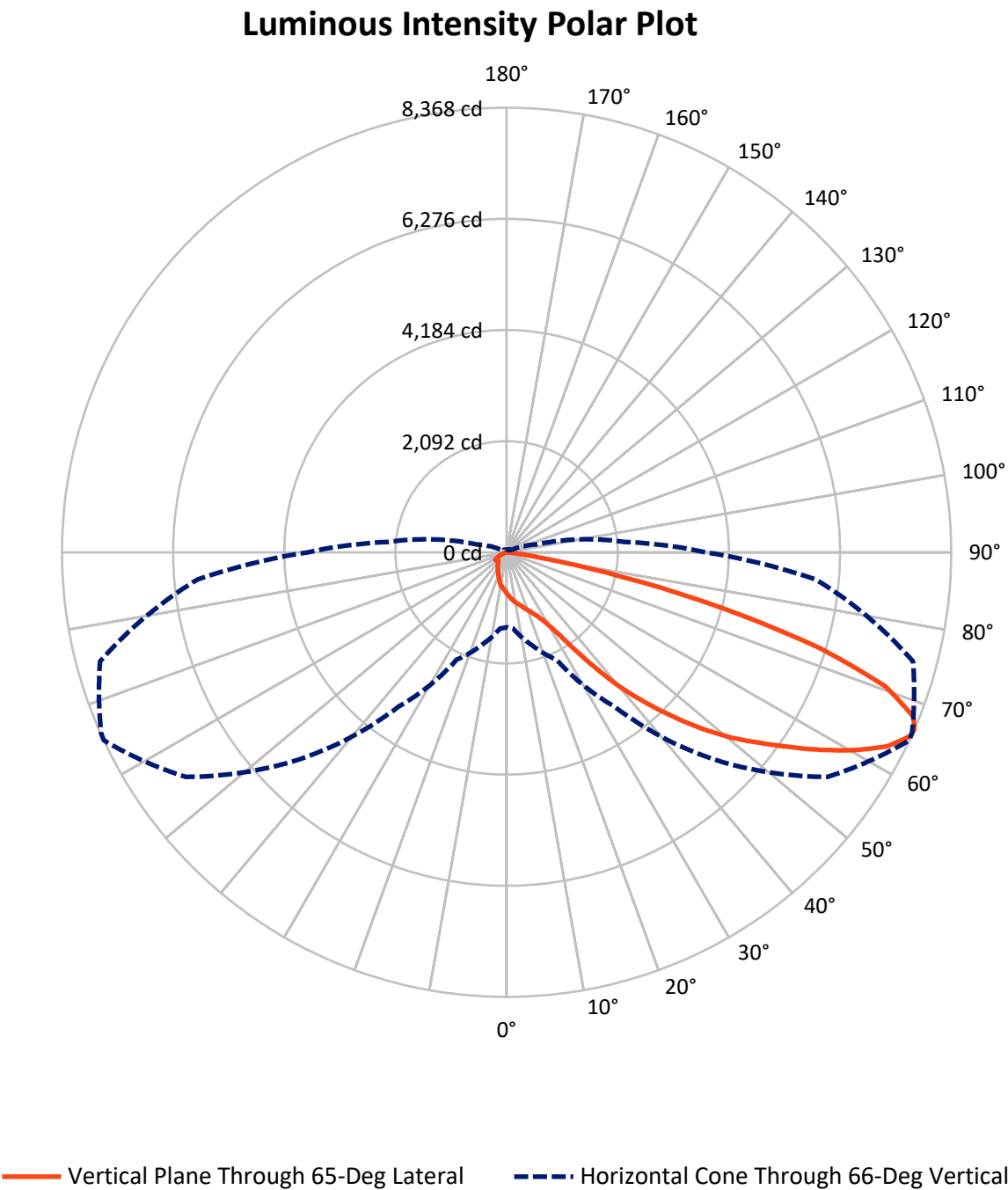
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type III - Short - N/A

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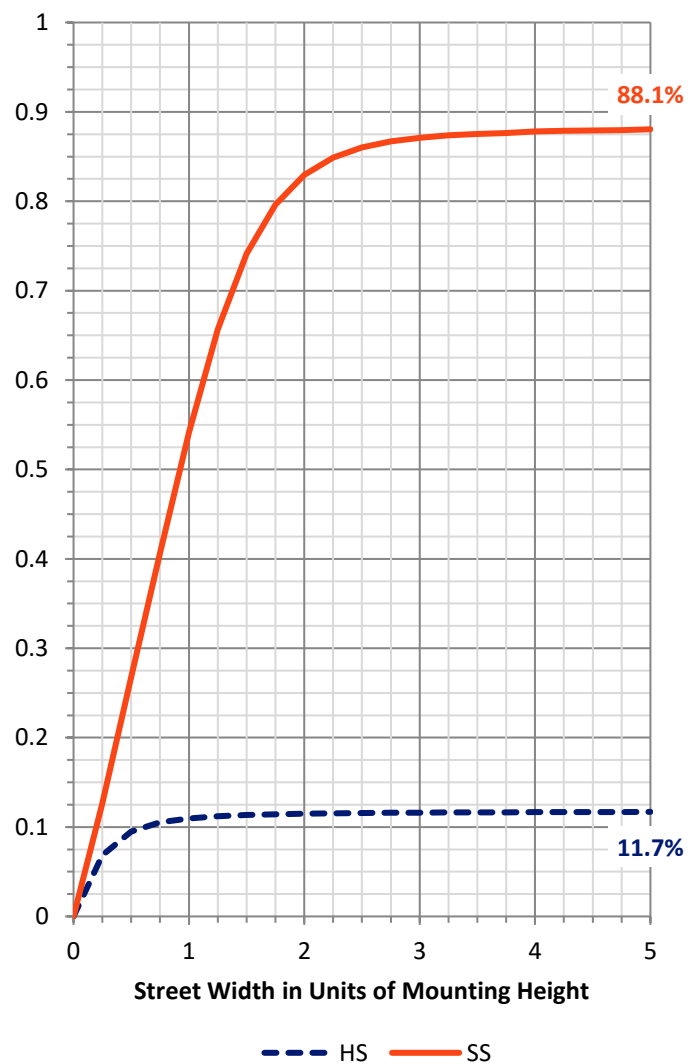
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1118.0	0.0	1118.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8355.0	0.0	8355.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	9473.0	0.0	9473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	0.8
10°-20°	216.6	2.3
20°-30°	396.4	4.2
30°-40°	805.5	8.5
40°-50°	1701.1	18.0
50°-60°	2615.1	27.6
60°-70°	2632.3	27.8
70°-80°	983.6	10.4
80°-90°	49.1	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°	9473.0	100.0
0°-180°	9473.0	100.0

Coefficient of Utilization



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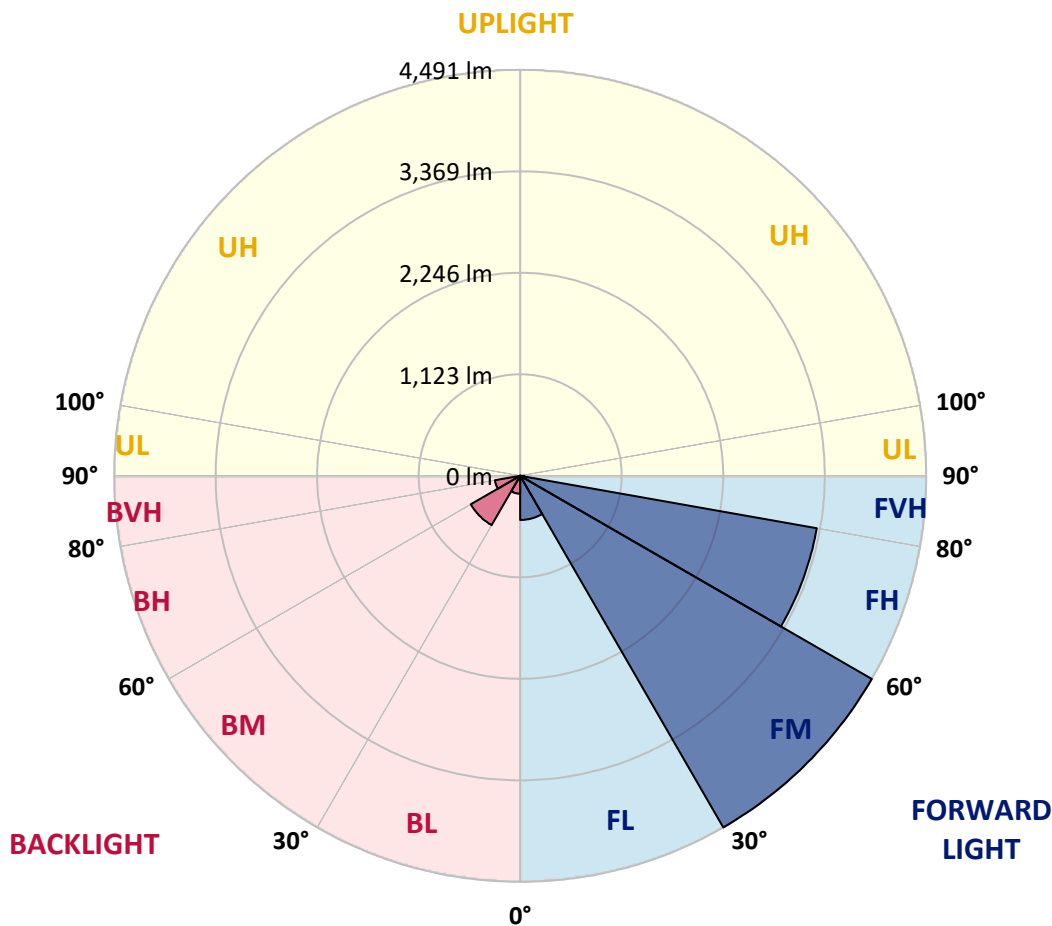
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.3	5.2			
FM	(30°-60°)	4491.4	47.4			
FH	(60°-80°)	3331.9	35.2			G2/5000
FVH	(80°-90°)	43.4	0.5			G1/100
BL	(0°-30°)	197.9	2.1	B1/500		
BM	(30°-60°)	630.3	6.7	B1/1000		
BH	(60°-80°)	284.0	3.0	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	880.1	881.8	878.4	871.5	864.6	856.0	842.3	819.9	816.5	801.0	783.8
5°	940.2	943.7	938.5	936.8	933.4	921.3	902.4	869.8	866.3	835.4	795.8
7.5°	960.9	966.0	962.6	962.6	962.6	957.4	948.8	919.6	914.5	874.9	814.8
10°	976.3	979.8	978.1	984.9	990.1	986.6	981.5	964.3	959.1	919.6	840.5
12.5°	1000.4	1002.1	1003.8	1007.3	1015.9	1019.3	1017.6	1002.1	998.7	971.2	873.2
15°	1022.7	1022.7	1024.5	1039.9	1052.0	1058.8	1060.6	1048.5	1045.1	1022.7	914.5
17.5°	1043.4	1045.1	1050.2	1067.4	1088.1	1101.8	1110.4	1105.2	1100.1	1082.9	962.6
20°	1074.3	1077.7	1082.9	1107.0	1127.6	1149.9	1167.1	1165.4	1163.7	1151.7	1019.3
22.5°	1127.6	1131.0	1139.6	1162.0	1182.6	1210.1	1239.3	1237.6	1232.4	1223.9	1086.3
25°	1208.4	1208.4	1213.5	1232.4	1258.2	1290.9	1318.4	1323.5	1318.4	1313.2	1170.6
27.5°	1309.8	1311.5	1311.5	1332.1	1356.2	1397.5	1431.8	1437.0	1437.0	1431.8	1284.0
30°	1450.7	1445.6	1442.2	1459.3	1485.1	1545.3	1605.4	1615.8	1610.6	1619.2	1443.9
32.5°	1693.1	1684.5	1655.3	1658.7	1674.2	1756.7	1858.1	1894.2	1892.5	1908.0	1701.7
35°	2028.3	2011.1	1968.1	1932.0	1930.3	2019.7	2174.4	2310.2	2308.5	2361.8	2093.6
37.5°	2406.5	2428.8	2348.0	2286.1	2267.2	2337.7	2537.1	2831.0	2846.5	2939.3	2607.6
40°	2911.8	2925.6	2822.4	2734.8	2645.4	2671.2	2934.2	3391.4	3418.9	3522.0	3121.5
42.5°	3351.8	3365.6	3305.4	3198.9	3085.4	3037.3	3334.7	3900.2	3922.5	4065.2	3650.9
45°	3650.9	3661.2	3681.9	3692.2	3563.3	3463.6	3824.5	4422.7	4450.2	4615.2	4168.3
47.5°	3884.7	3893.3	3934.5	4037.7	4011.9	3932.8	4323.0	4965.9	4972.8	5156.7	4672.0
50°	3993.0	4013.6	4115.0	4273.2	4386.6	4409.0	4864.5	5479.8	5498.7	5674.1	5148.1
52.5°	3872.7	3879.5	4135.7	4433.0	4661.6	4888.5	5407.6	5956.0	6011.0	6141.6	5576.1
55°	3467.0	3516.9	3905.3	4427.9	4878.2	5344.0	5988.6	6469.9	6519.8	6602.3	5952.5
57.5°	2996.0	3051.0	3523.7	4206.1	4971.0	5765.2	6526.6	7016.5	7050.9	7073.2	6298.0
60°	2588.7	2640.2	3126.7	3781.6	4878.2	6062.5	7026.8	7559.7	7588.9	7528.8	6471.6
62.5°	2088.5	2140.0	2629.9	3219.5	4513.8	6122.7	7398.1	8042.7	8054.7	7891.4	6365.1
65°	1574.5	1608.9	2018.0	2523.3	3876.1	5803.0	7482.3	8343.5	8331.5	7996.3	6045.3
66°	1411.2	1440.4	1801.4	2231.1	3544.4	5510.8	7368.9	8367.6	8355.5	7918.9	5835.6
67.5°	1217.0	1225.6	1522.9	1825.5	2965.1	4890.3	7023.4	8257.6	8267.9	7705.8	5452.3
70°	950.5	948.8	1120.7	1270.3	2024.9	3479.0	5858.0	7564.8	7614.7	6901.4	4649.6
72.5°	608.5	587.9	687.6	776.9	1179.2	2019.7	4271.4	6165.7	6249.9	5421.4	3463.6
75°	362.7	342.1	366.1	388.5	565.5	971.2	2511.3	4195.8	4276.6	3475.6	2061.0
77.5°	271.6	263.0	264.7	245.8	251.0	364.4	1146.5	2217.4	2275.8	1423.2	782.1
80°	208.0	185.6	173.6	182.2	165.0	144.4	426.3	763.2	799.3	336.9	163.3
82.5°	139.2	120.3	111.7	122.0	104.9	80.8	103.1	147.8	144.4	91.1	63.6
85°	72.2	61.9	61.9	61.9	53.3	39.5	44.7	60.2	60.2	48.1	37.8
87.5°	20.6	18.9	22.3	20.6	15.5	15.5	17.2	20.6	20.6	18.9	17.2
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°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	770.1	763.2	744.3	730.5	716.8	704.7	691.0	687.6	680.7	682.4	679.0
5°	775.2	756.3	723.7	692.7	668.6	648.0	622.2	611.9	598.2	593.0	589.6
7.5°	782.1	754.6	706.5	663.5	622.2	581.0	539.7	515.7	500.2	493.3	488.2
10°	797.6	761.5	697.9	630.8	560.4	501.9	460.7	443.5	433.2	431.4	429.7
12.5°	818.2	771.8	689.3	589.6	496.8	441.8	416.0	410.8	409.1	409.1	407.4
15°	849.1	789.0	675.5	541.5	446.9	409.1	397.1	388.5	385.0	385.0	385.0
17.5°	880.1	809.6	654.9	491.6	412.5	388.5	376.4	371.3	367.8	369.6	367.8
20°	919.6	833.7	627.4	448.6	390.2	371.3	359.2	354.1	352.4	352.4	352.4
22.5°	964.3	861.2	593.0	416.0	371.3	354.1	342.1	336.9	333.5	335.2	335.2
25°	1024.5	895.5	556.9	383.3	352.4	336.9	323.2	316.3	316.3	318.0	319.7
27.5°	1101.8	936.8	520.8	362.7	335.2	319.7	304.2	297.4	299.1	302.5	302.5
30°	1215.3	993.5	484.7	340.3	316.3	299.1	285.3	278.5	281.9	288.8	288.8
32.5°	1376.8	1086.3	453.8	314.6	288.8	269.9	256.1	251.0	259.6	273.3	273.3
35°	1665.6	1256.5	434.9	288.8	259.6	237.2	220.0	214.9	226.9	244.1	244.1
37.5°	2052.4	1529.8	441.8	266.4	235.5	209.7	190.8	183.9	192.5	208.0	213.1
40°	2483.8	1859.8	501.9	247.5	213.1	187.4	168.5	161.6	166.7	173.6	175.3
42.5°	2915.2	2210.5	615.4	233.8	196.0	168.5	151.3	146.1	149.5	151.3	153.0
45°	3345.0	2557.7	758.0	225.2	180.5	153.0	135.8	135.8	137.5	137.5	137.5
47.5°	3752.3	2896.3	907.6	223.5	166.7	137.5	123.8	125.5	125.5	127.2	127.2
50°	4137.4	3198.9	1058.8	228.6	154.7	123.8	113.4	113.4	113.4	115.2	113.4
52.5°	4458.8	3463.6	1217.0	237.2	142.7	113.4	103.1	103.1	103.1	104.9	103.1
55°	4763.1	3704.2	1378.6	249.2	132.4	104.9	94.5	91.1	91.1	92.8	91.1
57.5°	5010.6	3864.1	1531.5	251.0	123.8	96.3	87.7	82.5	82.5	82.5	82.5
60°	5020.9	3771.3	1576.2	220.0	113.4	87.7	79.1	72.2	73.9	73.9	73.9
62.5°	4692.6	3283.1	1266.8	165.0	101.4	79.1	72.2	65.3	65.3	65.3	65.3
65°	4048.0	2554.3	742.6	130.6	87.7	70.5	63.6	58.4	58.4	58.4	56.7
66°	3745.5	2239.7	569.0	118.6	82.5	68.8	61.9	56.7	55.0	53.3	53.3
67.5°	3252.1	1770.5	355.8	104.9	75.6	63.6	56.7	51.6	49.8	48.1	48.1
70°	2449.4	1124.2	173.6	80.8	65.3	55.0	49.8	44.7	43.0	41.3	39.5
72.5°	1718.9	658.3	91.1	61.9	53.3	48.1	43.0	37.8	36.1	34.4	34.4
75°	971.2	318.0	60.2	44.7	43.0	39.5	36.1	30.9	29.2	29.2	29.2
77.5°	367.8	110.0	41.3	32.7	34.4	30.9	25.8	25.8	24.1	25.8	24.1
80°	96.3	48.1	25.8	24.1	25.8	22.3	18.9	20.6	20.6	20.6	20.6
82.5°	51.6	27.5	15.5	17.2	15.5	15.5	12.0	13.8	15.5	13.8	15.5
85°	36.1	13.8	8.6	8.6	6.9	6.9	5.2	6.9	8.6	6.9	6.9
87.5°	18.9	5.2	5.2	5.2	5.2	3.4	1.7	0.0	1.7	1.7	1.7
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)