

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: P1210302

Luminaire Tested: **ARCH2-80-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210302
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: ARCH2-80-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7908 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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



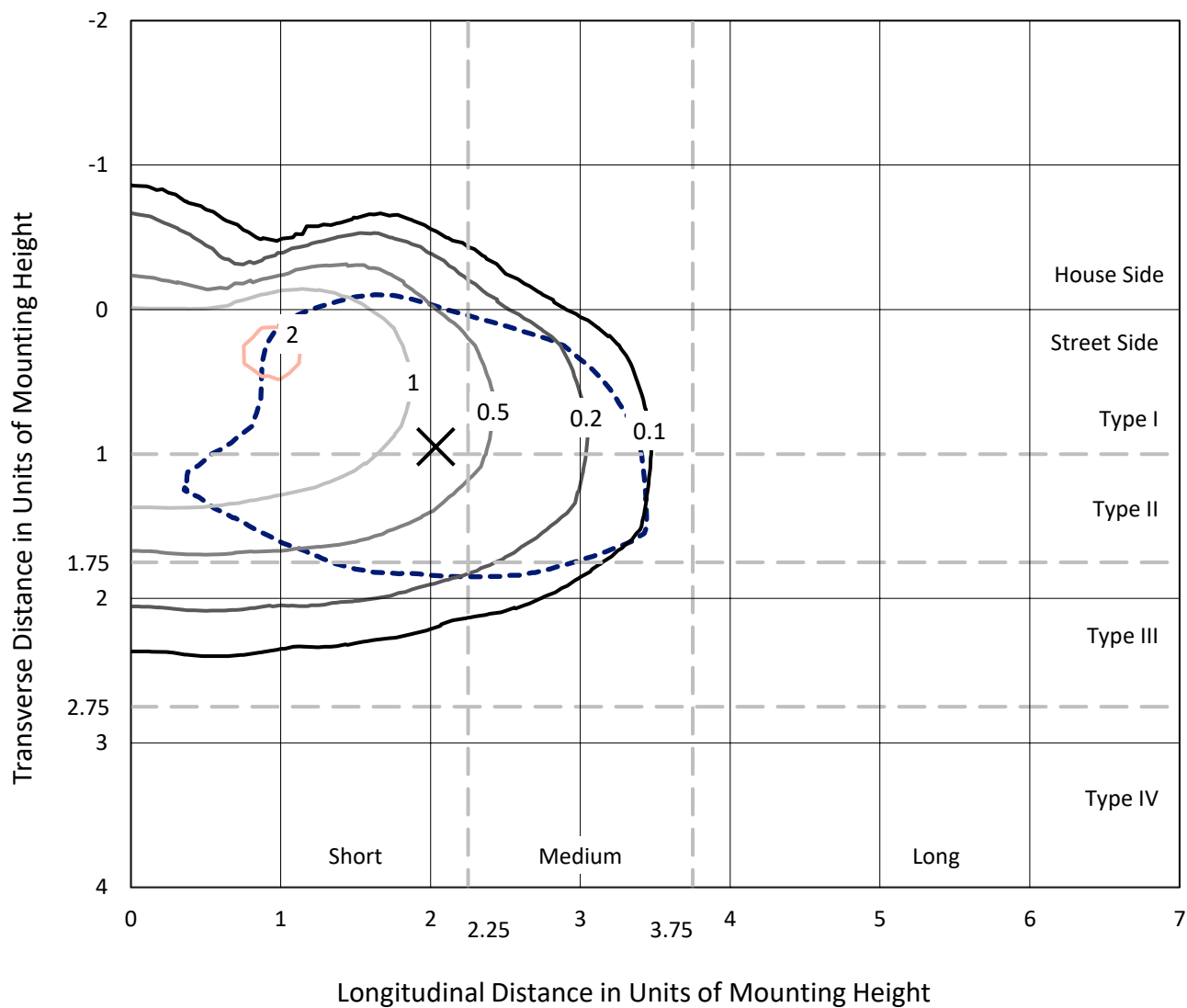
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Iso-Footcandle Lines of Horizontal Illumination

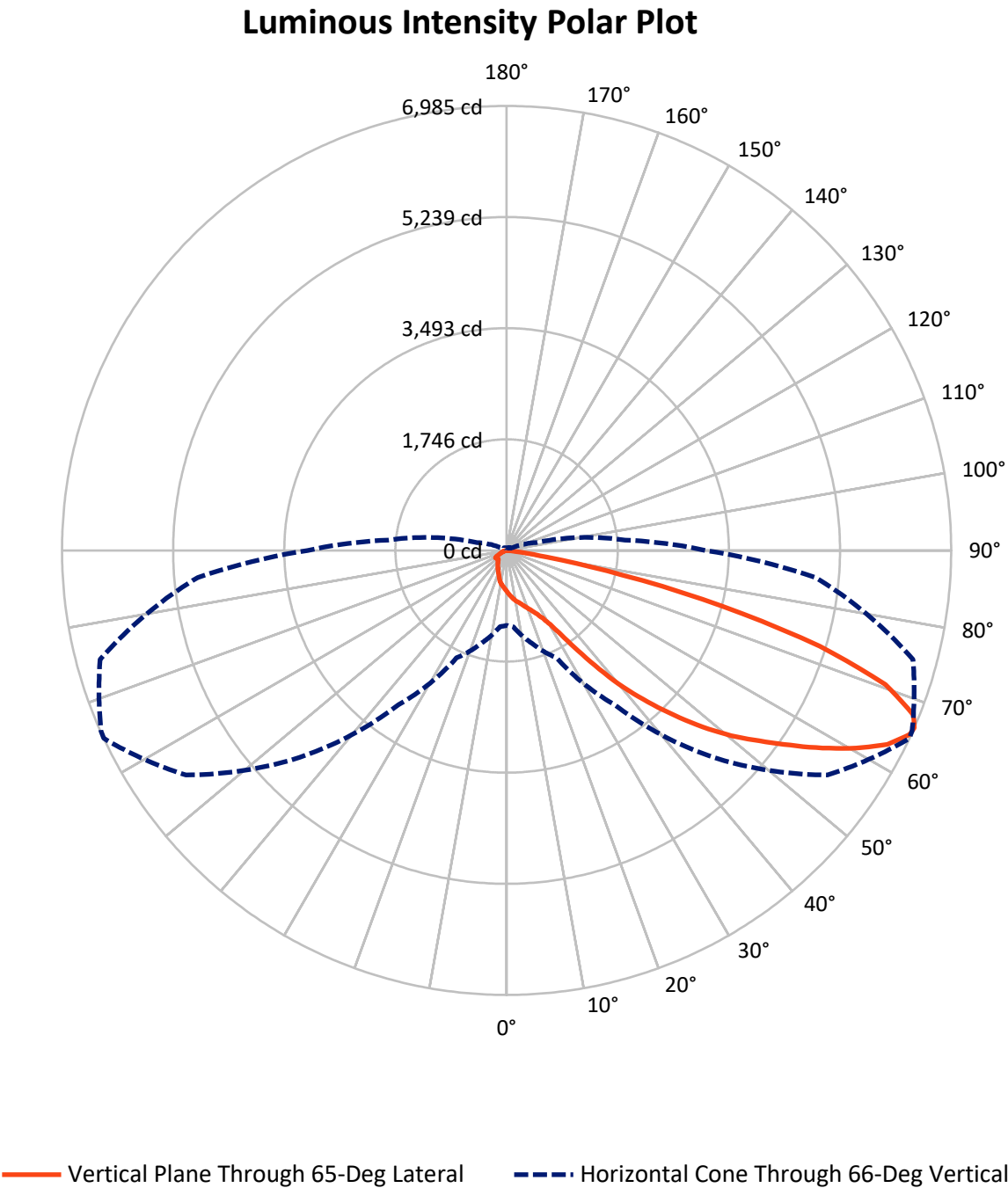
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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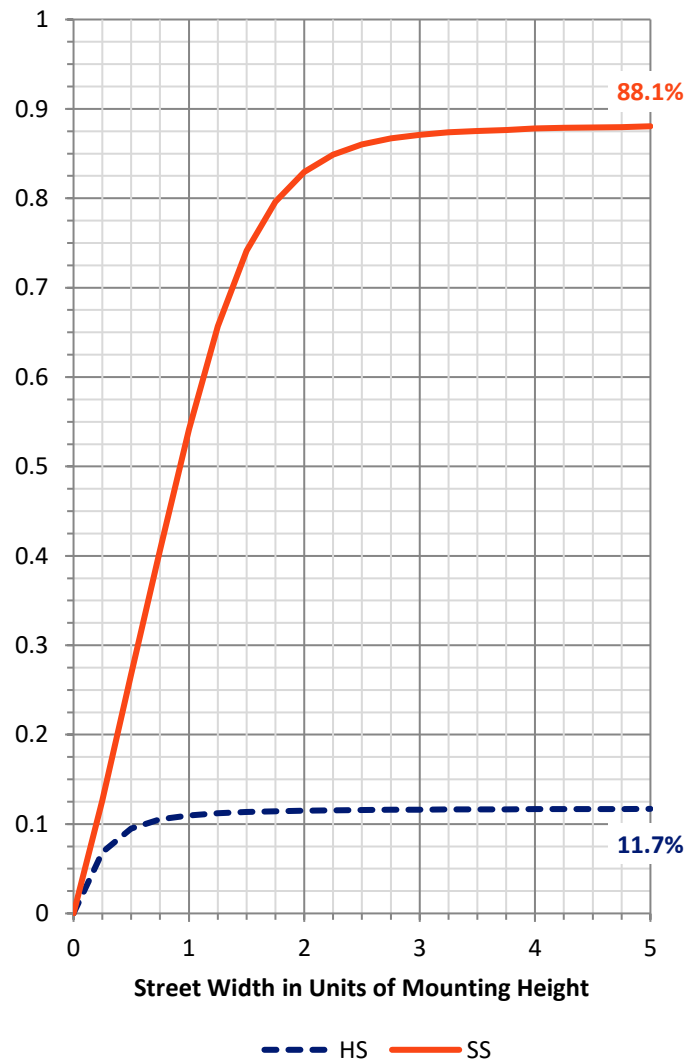
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	933.3	0.0	933.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6974.7	0.0	6974.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	7908.0	0.0	7908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	0.8
10°-20°	180.8	2.3
20°-30°	330.9	4.2
30°-40°	672.5	8.5
40°-50°	1420.1	18.0
50°-60°	2183.1	27.6
60°-70°	2197.4	27.8
70°-80°	821.1	10.4
80°-90°	41.0	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°	7908.0	100.0
0°-180°	7908.0	100.0

Coefficient of Utilization



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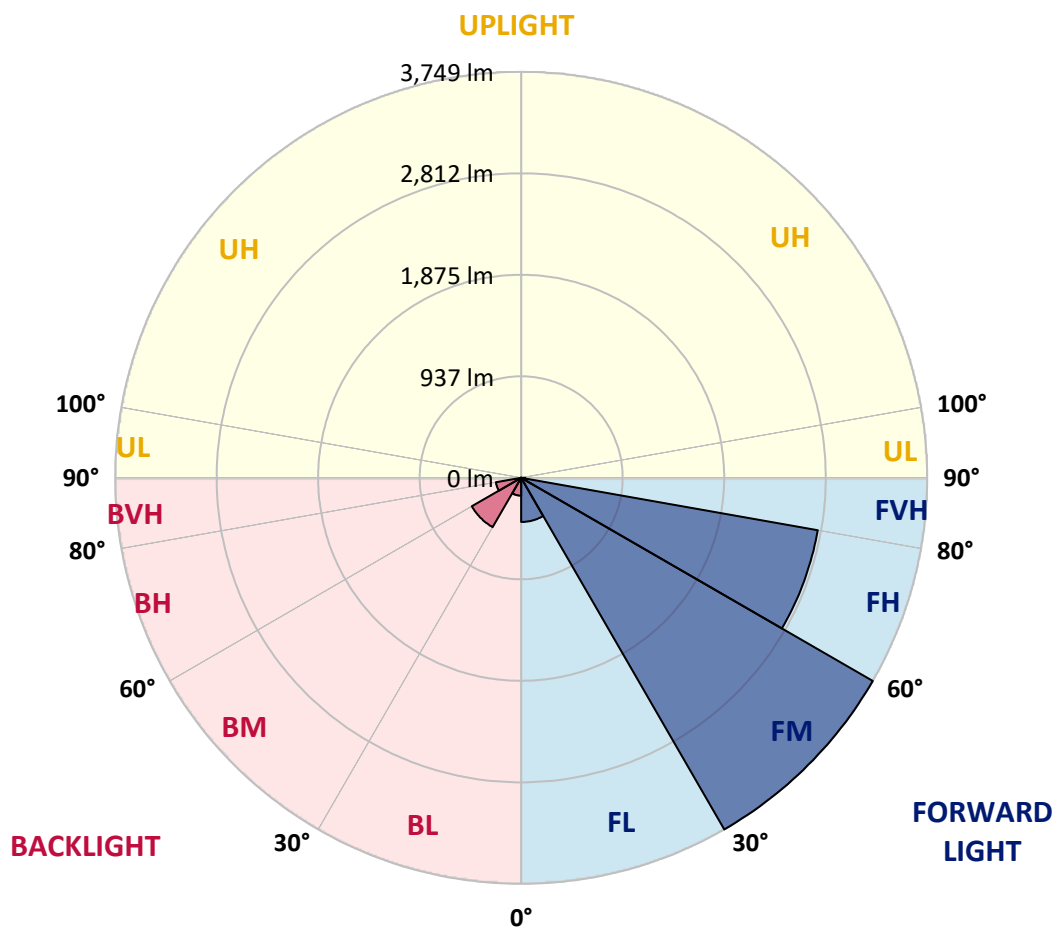
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.6	5.2			
FM	(30°-60°)	3749.4	47.4			
FH	(60°-80°)	2781.4	35.2			G2/5000
FVH	(80°-90°)	36.2	0.5			G1/100
BL	(0°-30°)	165.2	2.1	B1/500		
BM	(30°-60°)	526.2	6.7	B1/1000		
BH	(60°-80°)	237.1	3.0	B1/500		G1/500
BVH	(80°-90°)	4.8	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°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	734.7	736.1	733.2	727.5	721.8	714.6	703.1	684.5	681.6	668.7	654.3
5°	784.9	787.8	783.5	782.0	779.2	769.1	753.3	726.1	723.2	697.4	664.4
7.5°	802.1	806.4	803.6	803.6	803.6	799.3	792.1	767.7	763.4	730.4	680.2
10°	815.0	817.9	816.5	822.2	826.5	823.6	819.3	805.0	800.7	767.7	701.7
12.5°	835.1	836.6	838.0	840.9	848.0	850.9	849.5	836.6	833.7	810.7	728.9
15°	853.8	853.8	855.2	868.1	878.2	883.9	885.3	875.3	872.4	853.8	763.4
17.5°	871.0	872.4	876.7	891.1	908.3	919.8	927.0	922.7	918.3	904.0	803.6
20°	896.8	899.7	904.0	924.1	941.3	960.0	974.3	972.9	971.4	961.4	850.9
22.5°	941.3	944.2	951.4	970.0	987.2	1010.2	1034.6	1033.1	1028.8	1021.7	906.9
25°	1008.7	1008.7	1013.1	1028.8	1050.4	1077.6	1100.6	1104.9	1100.6	1096.3	977.2
27.5°	1093.4	1094.8	1094.8	1112.1	1132.2	1166.6	1195.3	1199.6	1199.6	1195.3	1071.9
30°	1211.1	1206.8	1203.9	1218.2	1239.8	1290.0	1340.2	1348.8	1344.5	1351.7	1205.3
32.5°	1413.4	1406.2	1381.8	1384.7	1397.6	1466.5	1551.1	1581.3	1579.8	1592.8	1420.6
35°	1693.2	1678.9	1643.0	1612.9	1611.4	1686.0	1815.2	1928.5	1927.1	1971.6	1747.7
37.5°	2008.9	2027.5	1960.1	1908.4	1892.7	1951.5	2117.9	2363.3	2376.2	2453.7	2176.8
40°	2430.8	2442.2	2356.1	2283.0	2208.3	2229.9	2449.4	2831.1	2854.1	2940.2	2605.8
42.5°	2798.1	2809.6	2759.4	2670.4	2575.7	2535.5	2783.7	3255.8	3274.5	3393.6	3047.8
45°	3047.8	3056.4	3073.6	3082.2	2974.6	2891.4	3192.7	3692.1	3715.0	3852.8	3479.7
47.5°	3242.9	3250.1	3284.5	3370.6	3349.1	3283.1	3608.8	4145.5	4151.2	4304.8	3900.1
50°	3333.3	3350.5	3435.2	3567.2	3661.9	3680.6	4060.8	4574.5	4590.3	4736.7	4297.6
52.5°	3232.9	3238.6	3452.4	3700.7	3891.5	4080.9	4514.3	4972.0	5017.9	5127.0	4654.9
55°	2894.2	2935.8	3260.1	3696.4	4072.3	4461.2	4999.3	5401.0	5442.7	5511.5	4969.1
57.5°	2501.1	2547.0	2941.6	3511.3	4149.8	4812.7	5448.4	5857.3	5886.0	5904.7	5257.6
60°	2161.0	2204.0	2610.1	3156.8	4072.3	5061.0	5866.0	6310.8	6335.2	6285.0	5402.5
62.5°	1743.4	1786.5	2195.4	2687.6	3768.1	5111.2	6175.9	6714.0	6724.0	6587.7	5313.5
65°	1314.4	1343.1	1684.6	2106.5	3235.7	4844.3	6246.2	6965.1	6955.1	6675.3	5046.6
66°	1178.1	1202.5	1503.8	1862.5	2958.8	4600.4	6151.5	6985.2	6975.2	6610.7	4871.6
67.5°	1015.9	1023.1	1271.3	1523.9	2475.2	4082.4	5863.1	6893.4	6902.0	6432.8	4551.6
70°	793.5	792.1	935.6	1060.4	1690.3	2904.3	4890.2	6315.1	6356.7	5761.2	3881.5
72.5°	508.0	490.7	574.0	648.6	984.4	1686.0	3565.8	5147.1	5217.4	4525.7	2891.4
75°	302.8	285.5	305.6	324.3	472.1	810.7	2096.4	3502.6	3570.1	2901.4	1720.5
77.5°	226.7	219.5	221.0	205.2	209.5	304.2	957.1	1851.0	1899.8	1188.1	652.9
80°	173.6	155.0	144.9	152.1	137.8	120.5	355.9	637.1	667.2	281.2	136.3
82.5°	116.2	100.4	93.3	101.9	87.5	67.4	86.1	123.4	120.5	76.1	53.1
85°	60.3	51.7	51.7	51.7	44.5	33.0	37.3	50.2	50.2	40.2	31.6
87.5°	17.2	15.8	18.7	17.2	12.9	12.9	14.3	17.2	17.2	15.8	14.3
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°	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3	644.3
2.5°	642.8	637.1	621.3	609.8	598.4	588.3	576.8	574.0	568.2	569.7	566.8
5°	647.1	631.4	604.1	578.3	558.2	541.0	519.4	510.8	499.4	495.0	492.2
7.5°	652.9	629.9	589.8	553.9	519.4	485.0	450.6	430.5	417.6	411.8	407.5
10°	665.8	635.7	582.6	526.6	467.8	419.0	384.6	370.2	361.6	360.2	358.7
12.5°	683.0	644.3	575.4	492.2	414.7	368.8	347.3	342.9	341.5	341.5	340.1
15°	708.9	658.6	563.9	452.0	373.1	341.5	331.5	324.3	321.4	321.4	321.4
17.5°	734.7	675.8	546.7	410.4	344.4	324.3	314.2	309.9	307.1	308.5	307.1
20°	767.7	695.9	523.7	374.5	325.7	309.9	299.9	295.6	294.2	294.2	294.2
22.5°	805.0	718.9	495.0	347.3	309.9	295.6	285.5	281.2	278.4	279.8	279.8
25°	855.2	747.6	464.9	320.0	294.2	281.2	269.8	264.0	264.0	265.5	266.9
27.5°	919.8	782.0	434.8	302.8	279.8	266.9	254.0	248.2	249.7	252.5	252.5
30°	1014.5	829.4	404.6	284.1	264.0	249.7	238.2	232.5	235.3	241.1	241.1
32.5°	1149.4	906.9	378.8	262.6	241.1	225.3	213.8	209.5	216.7	228.2	228.2
35°	1390.4	1048.9	363.0	241.1	216.7	198.0	183.7	179.4	189.4	203.8	203.8
37.5°	1713.3	1277.1	368.8	222.4	196.6	175.1	159.3	153.5	160.7	173.6	177.9
40°	2073.5	1552.6	419.0	206.6	177.9	156.4	140.6	134.9	139.2	144.9	146.4
42.5°	2433.6	1845.3	513.7	195.1	163.6	140.6	126.3	122.0	124.8	126.3	127.7
45°	2792.4	2135.2	632.8	188.0	150.7	127.7	113.4	113.4	114.8	114.8	114.8
47.5°	3132.4	2417.8	757.6	186.5	139.2	114.8	103.3	104.7	104.7	106.2	106.2
50°	3453.9	2670.4	883.9	190.8	129.1	103.3	94.7	94.7	94.7	96.1	94.7
52.5°	3722.2	2891.4	1015.9	198.0	119.1	94.7	86.1	86.1	86.1	87.5	86.1
55°	3976.2	3092.3	1150.8	208.1	110.5	87.5	78.9	76.1	76.1	77.5	76.1
57.5°	4182.8	3225.7	1278.5	209.5	103.3	80.4	73.2	68.9	68.9	68.9	68.9
60°	4191.4	3148.2	1315.8	183.7	94.7	73.2	66.0	60.3	61.7	61.7	61.7
62.5°	3917.3	2740.7	1057.5	137.8	84.7	66.0	60.3	54.5	54.5	54.5	54.5
65°	3379.2	2132.3	619.9	109.1	73.2	58.8	53.1	48.8	48.8	48.8	47.4
66°	3126.7	1869.7	475.0	99.0	68.9	57.4	51.7	47.4	45.9	44.5	44.5
67.5°	2714.9	1478.0	297.0	87.5	63.1	53.1	47.4	43.0	41.6	40.2	40.2
70°	2044.8	938.4	144.9	67.4	54.5	45.9	41.6	37.3	35.9	34.4	33.0
72.5°	1434.9	549.6	76.1	51.7	44.5	40.2	35.9	31.6	30.1	28.7	28.7
75°	810.7	265.5	50.2	37.3	35.9	33.0	30.1	25.8	24.4	24.4	24.4
77.5°	307.1	91.8	34.4	27.3	28.7	25.8	21.5	21.5	20.1	21.5	20.1
80°	80.4	40.2	21.5	20.1	21.5	18.7	15.8	17.2	17.2	17.2	17.2
82.5°	43.0	23.0	12.9	14.3	12.9	12.9	10.0	11.5	12.9	11.5	12.9
85°	30.1	11.5	7.2	7.2	5.7	5.7	4.3	5.7	7.2	5.7	5.7
87.5°	15.8	4.3	4.3	4.3	4.3	2.9	1.4	0.0	1.4	1.4	1.4
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)