

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: P1211550

Luminaire Tested: **ARCH4-40-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211550
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: ARCH4-40-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5249 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

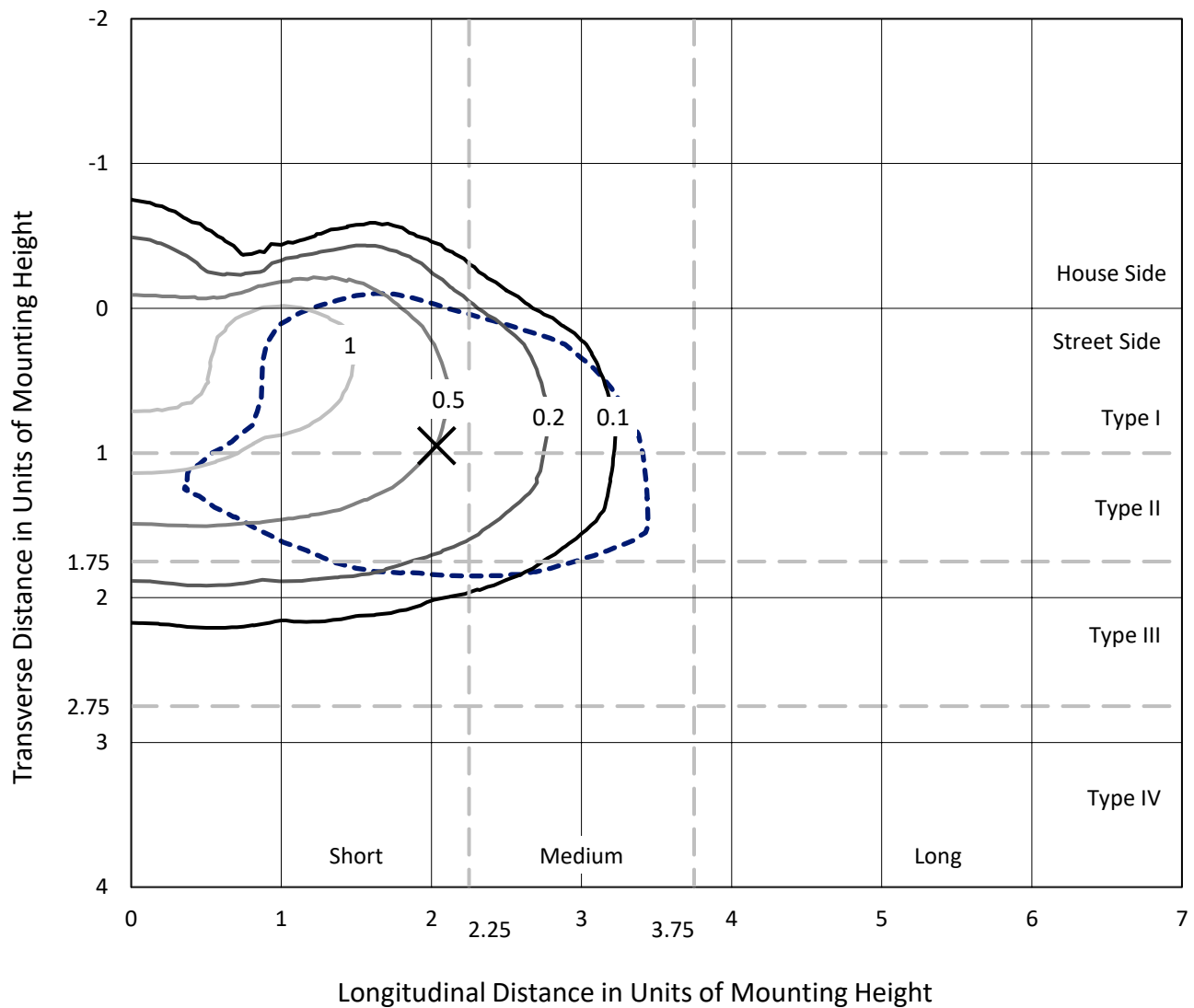
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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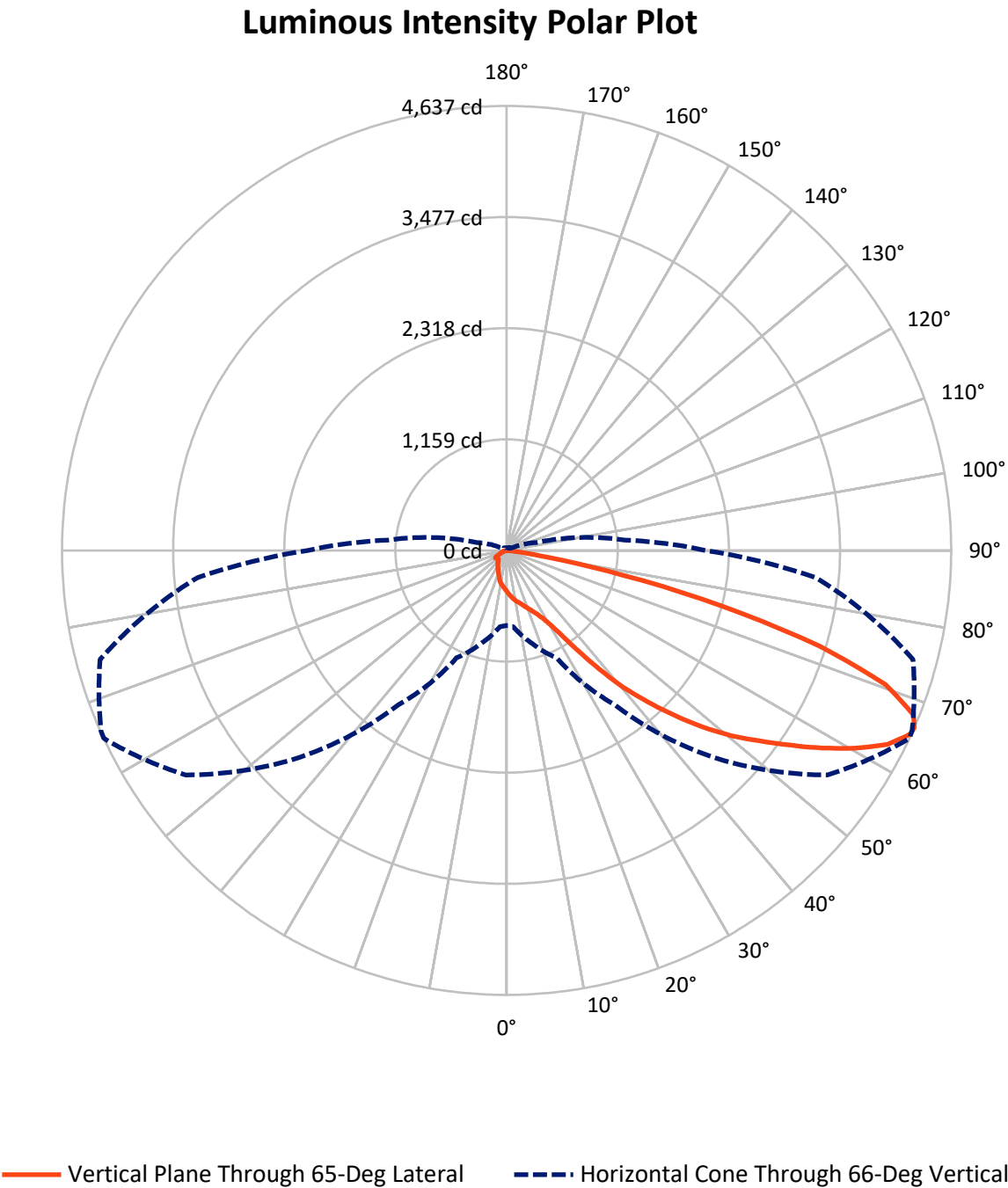
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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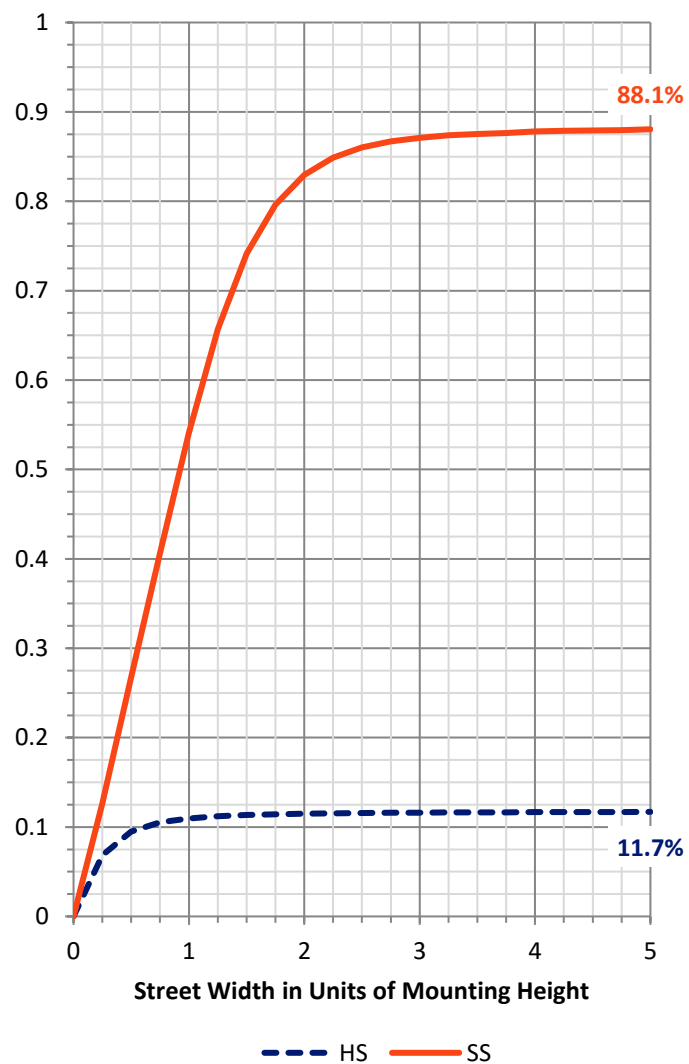
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	619.5	0.0	619.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4629.5	0.0	4629.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	5249.0	0.0	5249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	0.8
10°-20°	120.0	2.3
20°-30°	219.7	4.2
30°-40°	446.4	8.5
40°-50°	942.6	18.0
50°-60°	1449.0	27.6
60°-70°	1458.6	27.8
70°-80°	545.0	10.4
80°-90°	27.2	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°	5249.0	100.0
0°-180°	5249.0	100.0

Coefficient of Utilization



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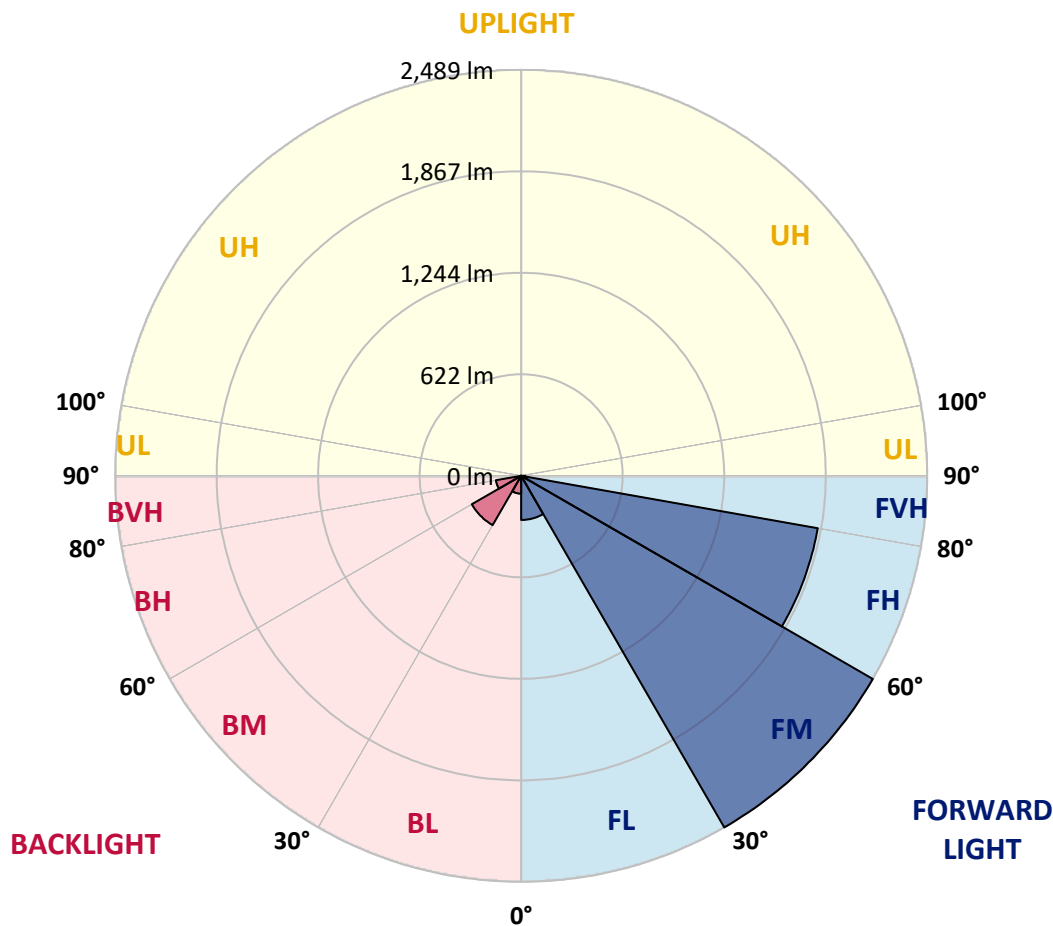
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	270.6	5.2			
FM	(30°-60°)	2488.7	47.4			
FH	(60°-80°)	1846.2	35.2			G2/5000
FVH	(80°-90°)	24.0	0.5			G1/100
BL	(0°-30°)	109.6	2.1	B0/110		
BM	(30°-60°)	349.3	6.7	B1/1000		
BH	(60°-80°)	157.4	3.0	B1/500		G1/500
BVH	(80°-90°)	3.2	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°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6
2.5°	487.6	488.6	486.7	482.9	479.1	474.3	466.7	454.3	452.4	443.8	434.3
5°	521.0	522.9	520.0	519.1	517.2	510.5	500.0	481.9	480.0	462.9	441.0
7.5°	532.4	535.3	533.4	533.4	533.4	530.5	525.7	509.6	506.7	484.8	451.5
10°	541.0	542.9	541.9	545.7	548.6	546.7	543.8	534.3	531.5	509.6	465.7
12.5°	554.3	555.3	556.2	558.1	562.9	564.8	563.8	555.3	553.4	538.1	483.8
15°	566.7	566.7	567.7	576.2	582.9	586.7	587.7	581.0	579.1	566.7	506.7
17.5°	578.1	579.1	581.9	591.5	602.9	610.5	615.3	612.4	609.6	600.0	533.4
20°	595.3	597.2	600.0	613.4	624.8	637.2	646.7	645.8	644.8	638.1	564.8
22.5°	624.8	626.7	631.5	643.8	655.3	670.5	686.7	685.8	682.9	678.1	601.9
25°	669.6	669.6	672.4	682.9	697.2	715.3	730.5	733.4	730.5	727.7	648.6
27.5°	725.8	726.7	726.7	738.1	751.5	774.3	793.4	796.2	796.2	793.4	711.5
30°	803.9	801.0	799.1	808.6	822.9	856.2	889.6	895.3	892.4	897.2	800.1
32.5°	938.2	933.4	917.2	919.1	927.7	973.4	1029.6	1049.6	1048.6	1057.2	942.9
35°	1123.9	1114.4	1090.5	1070.5	1069.6	1119.1	1204.8	1280.1	1279.1	1308.7	1160.1
37.5°	1333.4	1345.8	1301.0	1266.7	1256.3	1295.3	1405.8	1568.7	1577.2	1628.7	1444.9
40°	1613.4	1621.1	1563.9	1515.3	1465.8	1480.1	1625.8	1879.2	1894.4	1951.6	1729.6
42.5°	1857.3	1864.9	1831.5	1772.5	1709.6	1683.0	1847.7	2161.1	2173.5	2252.5	2023.0
45°	2023.0	2028.7	2040.1	2045.8	1974.4	1919.2	2119.2	2450.6	2465.9	2557.3	2309.7
47.5°	2152.5	2157.3	2180.1	2237.3	2223.0	2179.2	2395.4	2751.6	2755.4	2857.3	2588.7
50°	2212.5	2223.9	2280.1	2367.8	2430.6	2443.0	2695.4	3036.4	3046.9	3144.0	2852.6
52.5°	2145.8	2149.7	2291.6	2456.3	2583.0	2708.7	2996.4	3300.2	3330.7	3403.1	3089.7
55°	1921.1	1948.7	2163.9	2453.5	2703.0	2961.1	3318.3	3585.0	3612.6	3658.3	3298.3
57.5°	1660.1	1690.6	1952.5	2330.6	2754.5	3194.5	3616.4	3887.9	3906.9	3919.3	3489.7
60°	1434.4	1462.9	1732.5	2095.4	2703.0	3359.3	3893.6	4188.8	4205.0	4171.7	3585.9
62.5°	1157.2	1185.8	1457.2	1783.9	2501.1	3392.6	4099.3	4456.5	4463.1	4372.7	3526.9
65°	872.4	891.5	1118.2	1398.2	2147.8	3215.4	4146.0	4623.1	4616.5	4430.8	3349.7
66°	782.0	798.1	998.2	1236.3	1963.9	3053.5	4083.1	4636.5	4629.8	4387.9	3233.5
67.5°	674.3	679.1	843.9	1011.5	1643.0	2709.7	3891.7	4575.5	4581.2	4269.8	3021.1
70°	526.7	525.7	621.0	703.9	1122.0	1927.7	3245.9	4191.7	4219.3	3824.0	2576.4
72.5°	337.2	325.7	381.0	430.5	653.4	1119.1	2366.8	3416.4	3463.1	3004.0	1919.2
75°	201.0	189.5	202.9	215.3	313.4	538.1	1391.5	2324.9	2369.7	1925.8	1142.0
77.5°	150.5	145.7	146.7	136.2	139.1	201.9	635.3	1228.6	1261.0	788.6	433.4
80°	115.2	102.9	96.2	101.0	91.4	80.0	236.2	422.9	442.9	186.7	90.5
82.5°	77.1	66.7	61.9	67.6	58.1	44.8	57.1	81.9	80.0	50.5	35.2
85°	40.0	34.3	34.3	34.3	29.5	21.9	24.8	33.3	33.3	26.7	21.0
87.5°	11.4	10.5	12.4	11.4	8.6	8.6	9.5	11.4	11.4	10.5	9.5
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°	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6	427.6
2.5°	426.7	422.9	412.4	404.8	397.2	390.5	382.9	381.0	377.2	378.1	376.2
5°	429.6	419.1	401.0	383.8	370.5	359.1	344.8	339.1	331.4	328.6	326.7
7.5°	433.4	418.1	391.5	367.6	344.8	321.9	299.1	285.7	277.2	273.4	270.5
10°	441.9	421.9	386.7	349.5	310.5	278.1	255.3	245.7	240.0	239.1	238.1
12.5°	453.4	427.6	381.9	326.7	275.3	244.8	230.5	227.6	226.7	226.7	225.7
15°	470.5	437.2	374.3	300.0	247.6	226.7	220.0	215.3	213.3	213.3	213.3
17.5°	487.6	448.6	362.9	272.4	228.6	215.3	208.6	205.7	203.8	204.8	203.8
20°	509.6	461.9	347.6	248.6	216.2	205.7	199.1	196.2	195.3	195.3	195.3
22.5°	534.3	477.2	328.6	230.5	205.7	196.2	189.5	186.7	184.8	185.7	185.7
25°	567.7	496.2	308.6	212.4	195.3	186.7	179.1	175.2	175.2	176.2	177.2
27.5°	610.5	519.1	288.6	201.0	185.7	177.2	168.6	164.8	165.7	167.6	167.6
30°	673.4	550.5	268.6	188.6	175.2	165.7	158.1	154.3	156.2	160.0	160.0
32.5°	762.9	601.9	251.4	174.3	160.0	149.5	141.9	139.1	143.8	151.4	151.4
35°	922.9	696.2	241.0	160.0	143.8	131.4	121.9	119.1	125.7	135.2	135.2
37.5°	1137.2	847.7	244.8	147.6	130.5	116.2	105.7	101.9	106.7	115.2	118.1
40°	1376.3	1030.5	278.1	137.2	118.1	103.8	93.3	89.5	92.4	96.2	97.1
42.5°	1615.3	1224.8	341.0	129.5	108.6	93.3	83.8	81.0	82.9	83.8	84.8
45°	1853.4	1417.2	420.0	124.8	100.0	84.8	75.2	75.2	76.2	76.2	76.2
47.5°	2079.2	1604.9	502.9	123.8	92.4	76.2	68.6	69.5	69.5	70.5	70.5
50°	2292.5	1772.5	586.7	126.7	85.7	68.6	62.9	62.9	62.9	63.8	62.9
52.5°	2470.6	1919.2	674.3	131.4	79.1	62.9	57.1	57.1	57.1	58.1	57.1
55°	2639.2	2052.5	763.9	138.1	73.3	58.1	52.4	50.5	50.5	51.4	50.5
57.5°	2776.4	2141.1	848.6	139.1	68.6	53.3	48.6	45.7	45.7	45.7	45.7
60°	2782.1	2089.7	873.4	121.9	62.9	48.6	43.8	40.0	41.0	41.0	41.0
62.5°	2600.2	1819.2	701.9	91.4	56.2	43.8	40.0	36.2	36.2	36.2	36.2
65°	2243.0	1415.3	411.5	72.4	48.6	39.1	35.2	32.4	32.4	32.4	31.4
66°	2075.4	1241.0	315.3	65.7	45.7	38.1	34.3	31.4	30.5	29.5	29.5
67.5°	1802.0	981.0	197.2	58.1	41.9	35.2	31.4	28.6	27.6	26.7	26.7
70°	1357.2	622.9	96.2	44.8	36.2	30.5	27.6	24.8	23.8	22.9	21.9
72.5°	952.4	364.8	50.5	34.3	29.5	26.7	23.8	21.0	20.0	19.0	19.0
75°	538.1	176.2	33.3	24.8	23.8	21.9	20.0	17.1	16.2	16.2	16.2
77.5°	203.8	61.0	22.9	18.1	19.0	17.1	14.3	14.3	13.3	14.3	13.3
80°	53.3	26.7	14.3	13.3	14.3	12.4	10.5	11.4	11.4	11.4	11.4
82.5°	28.6	15.2	8.6	9.5	8.6	8.6	6.7	7.6	8.6	7.6	8.6
85°	20.0	7.6	4.8	4.8	3.8	3.8	2.9	3.8	4.8	3.8	3.8
87.5°	10.5	2.9	2.9	2.9	2.9	1.9	1.0	0.0	1.0	1.0	1.0
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)