

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: P1210022

Luminaire Tested: **ARCH1-50-740-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210022
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: ARCH1-50-740-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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



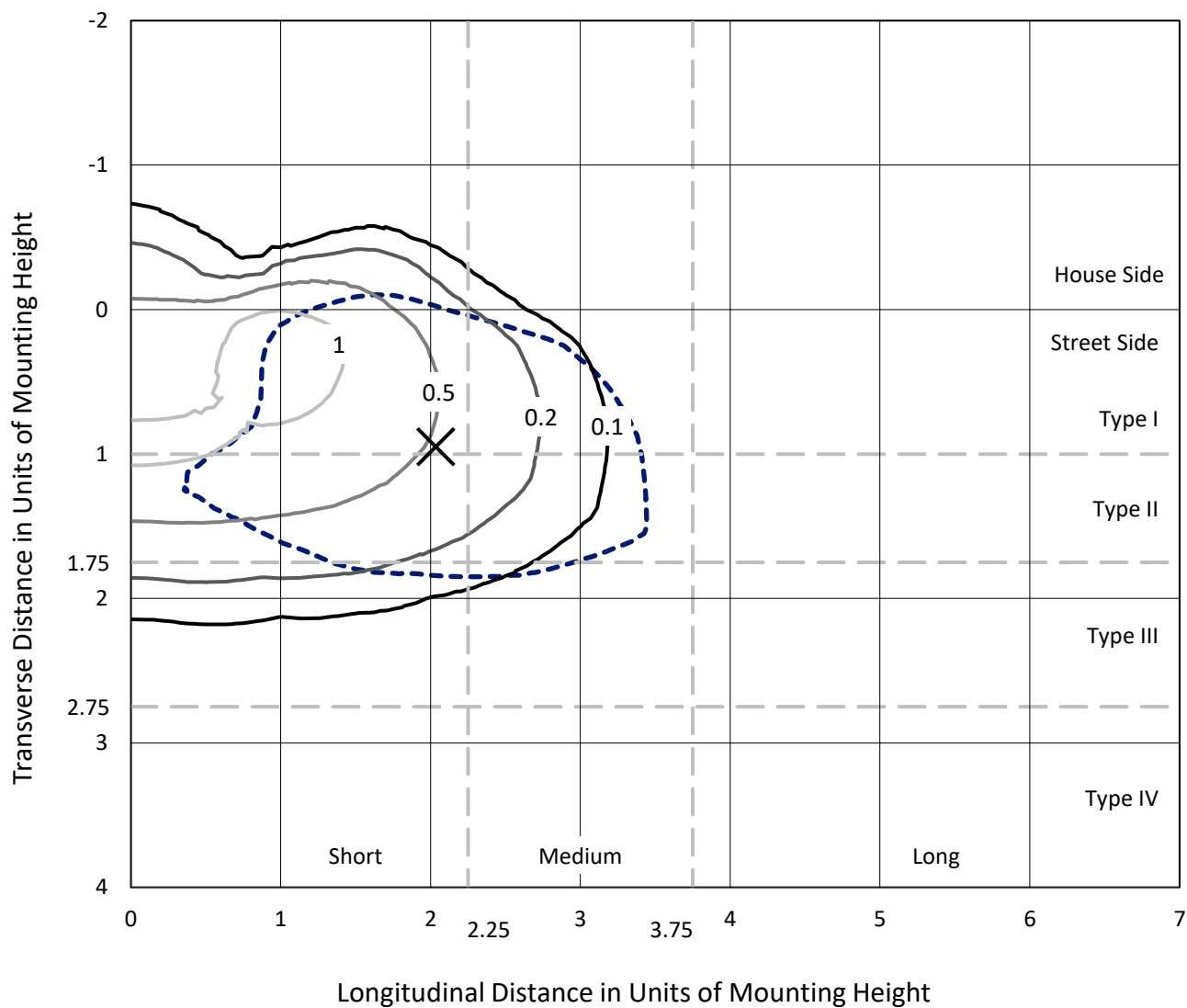
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

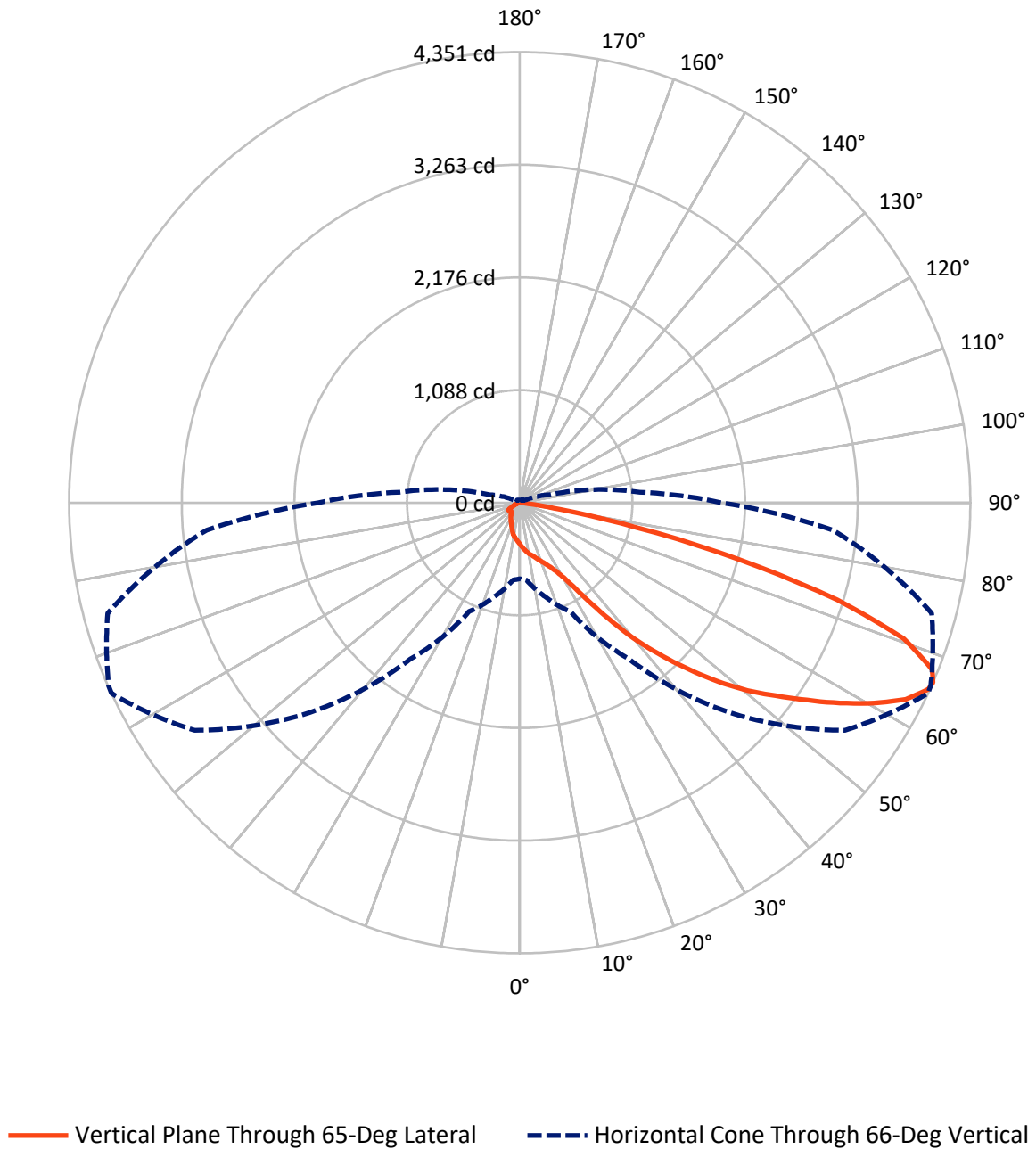
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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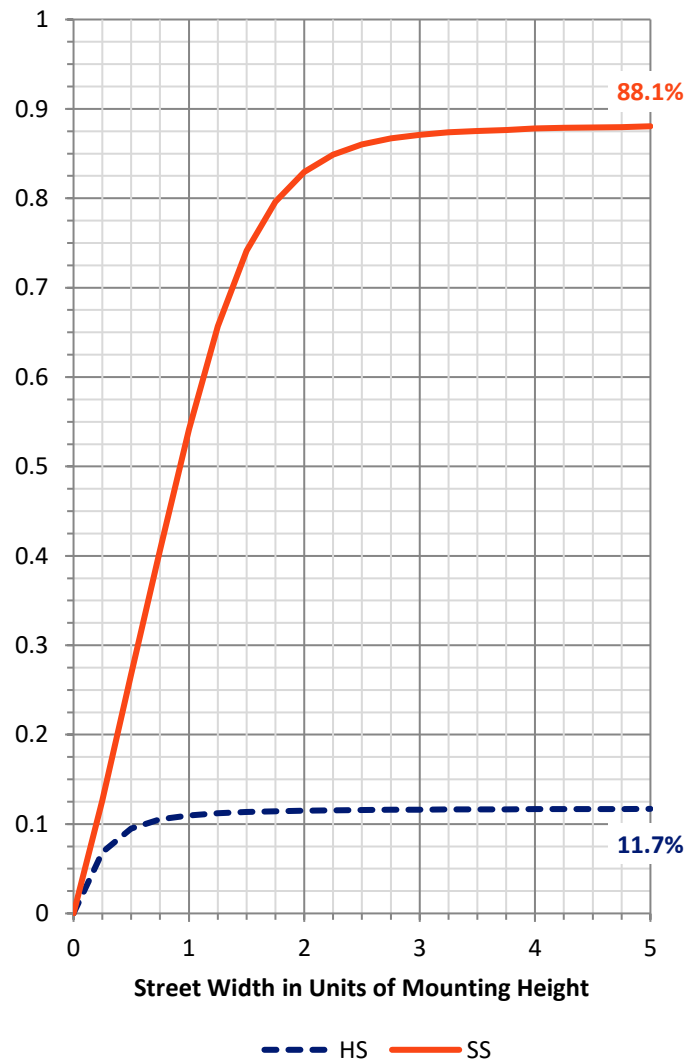
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.4	0.0	581.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4344.6	0.0	4344.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	4926.0	0.0	4926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	0.8
10°-20°	112.6	2.3
20°-30°	206.2	4.2
30°-40°	418.9	8.5
40°-50°	884.6	18.0
50°-60°	1359.9	27.6
60°-70°	1368.8	27.8
70°-80°	511.5	10.4
80°-90°	25.6	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°	4926.0	100.0
0°-180°	4926.0	100.0

Coefficient of Utilization



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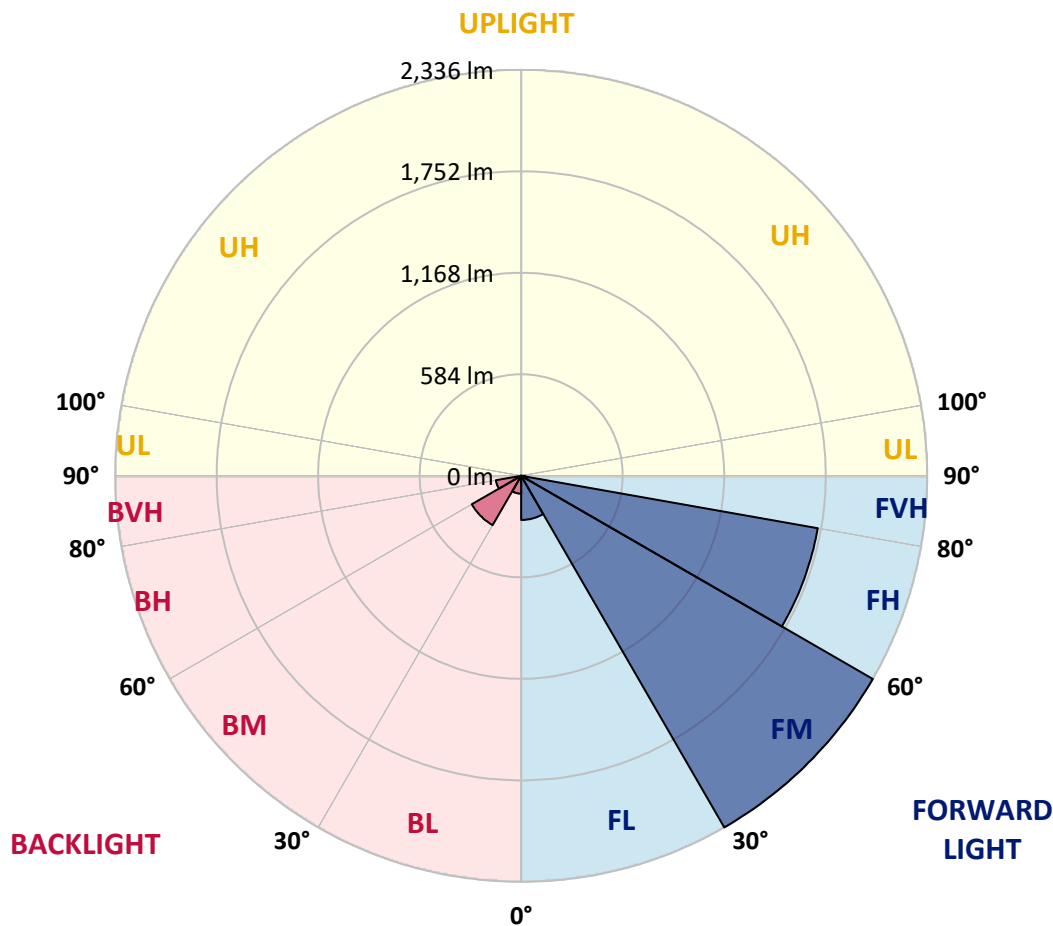
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.9	5.2			
FM	(30°-60°)	2335.6	47.4			
FH	(60°-80°)	1732.6	35.2			G1/1800
FVH	(80°-90°)	22.5	0.5			G1/100
BL	(0°-30°)	102.9	2.1	B0/110		
BM	(30°-60°)	327.8	6.7	B1/1000		
BH	(60°-80°)	147.7	3.0	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3
2.5°	457.6	458.5	456.7	453.2	449.6	445.1	438.0	426.4	424.6	416.5	407.6
5°	488.9	490.7	488.0	487.1	485.4	479.1	469.3	452.3	450.5	434.4	413.8
7.5°	499.7	502.3	500.5	500.5	500.5	497.9	493.4	478.2	475.5	455.0	423.7
10°	507.7	509.5	508.6	512.2	514.8	513.1	510.4	501.4	498.8	478.2	437.1
12.5°	520.2	521.1	522.0	523.8	528.3	530.0	529.1	521.1	519.3	505.0	454.1
15°	531.8	531.8	532.7	540.8	547.0	550.6	551.5	545.2	543.4	531.8	475.5
17.5°	542.6	543.4	546.1	555.1	565.8	572.9	577.4	574.7	572.1	563.1	500.5
20°	558.6	560.4	563.1	575.6	586.4	598.0	606.9	606.0	605.1	598.9	530.0
22.5°	586.4	588.1	592.6	604.2	615.0	629.3	644.5	643.6	640.9	636.4	564.9
25°	628.4	628.4	631.0	640.9	654.3	671.3	685.6	688.3	685.6	682.9	608.7
27.5°	681.1	682.0	682.0	692.7	705.2	726.7	744.6	747.2	747.2	744.6	667.7
30°	754.4	751.7	749.9	758.9	772.3	803.6	834.8	840.2	837.5	842.0	750.8
32.5°	880.4	876.0	860.8	862.5	870.6	913.5	966.2	985.0	984.1	992.2	884.9
35°	1054.7	1045.8	1023.4	1004.7	1003.8	1050.3	1130.7	1201.3	1200.4	1228.1	1088.7
37.5°	1251.4	1263.0	1221.0	1188.8	1179.0	1215.6	1319.3	1472.1	1480.2	1528.5	1355.9
40°	1514.2	1521.3	1467.7	1422.1	1375.6	1389.0	1525.8	1763.5	1777.8	1831.5	1623.2
42.5°	1743.0	1750.1	1718.8	1663.4	1604.4	1579.4	1734.0	2028.1	2039.7	2113.9	1898.5
45°	1898.5	1903.9	1914.6	1920.0	1852.9	1801.1	1988.8	2299.8	2314.1	2399.9	2167.5
47.5°	2020.1	2024.5	2046.0	2099.6	2086.2	2045.1	2248.0	2582.3	2585.9	2681.5	2429.4
50°	2076.4	2087.1	2139.8	2222.1	2281.1	2292.7	2529.5	2849.5	2859.4	2950.5	2677.0
52.5°	2013.8	2017.4	2150.6	2305.2	2424.1	2542.1	2812.0	3097.1	3125.7	3193.7	2899.6
55°	1802.9	1828.8	2030.8	2302.5	2536.7	2778.9	3114.1	3364.4	3390.3	3433.2	3095.3
57.5°	1557.9	1586.6	1832.4	2187.2	2585.0	2997.9	3393.9	3648.6	3666.5	3678.1	3275.0
60°	1346.1	1372.9	1625.9	1966.4	2536.7	3152.5	3654.0	3931.1	3946.3	3915.0	3365.3
62.5°	1086.0	1112.8	1367.6	1674.1	2347.2	3183.8	3847.1	4182.2	4188.5	4103.6	3309.9
65°	818.7	836.6	1049.4	1312.1	2015.6	3017.6	3890.8	4338.7	4332.4	4158.1	3143.6
66°	733.8	749.0	936.7	1160.2	1843.1	2865.6	3831.9	4351.2	4344.9	4117.9	3034.6
67.5°	632.8	637.3	791.9	949.2	1541.9	2543.0	3652.2	4294.0	4299.3	4007.0	2835.2
70°	494.3	493.4	582.8	660.5	1052.9	1809.1	3046.2	3933.8	3959.7	3588.7	2417.8
72.5°	316.4	305.7	357.5	404.0	613.2	1050.3	2221.2	3206.2	3250.0	2819.1	1801.1
75°	188.6	177.9	190.4	202.0	294.1	505.0	1305.9	2181.8	2223.9	1807.3	1071.7
77.5°	141.2	136.8	137.7	127.8	130.5	189.5	596.2	1153.0	1183.4	740.1	406.7
80°	108.2	96.5	90.3	94.7	85.8	75.1	221.7	396.9	415.6	175.2	84.9
82.5°	72.4	62.6	58.1	63.5	54.5	42.0	53.6	76.9	75.1	47.4	33.1
85°	37.5	32.2	32.2	32.2	27.7	20.6	23.2	31.3	31.3	25.0	19.7
87.5°	10.7	9.8	11.6	10.7	8.0	8.0	8.9	10.7	10.7	9.8	8.9
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°	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3	401.3
2.5°	400.4	396.9	387.0	379.9	372.7	366.5	359.3	357.5	354.0	354.9	353.1
5°	403.1	393.3	376.3	360.2	347.7	337.0	323.6	318.2	311.1	308.4	306.6
7.5°	406.7	392.4	367.4	345.0	323.6	302.1	280.7	268.1	260.1	256.5	253.8
10°	414.7	396.0	362.9	328.0	291.4	261.0	239.5	230.6	225.2	224.4	223.5
12.5°	425.5	401.3	358.4	306.6	258.3	229.7	216.3	213.6	212.7	212.7	211.8
15°	441.6	410.3	351.3	281.6	232.4	212.7	206.5	202.0	200.2	200.2	200.2
17.5°	457.6	421.0	340.5	255.6	214.5	202.0	195.7	193.1	191.3	192.2	191.3
20°	478.2	433.5	326.2	233.3	202.9	193.1	186.8	184.1	183.2	183.2	183.2
22.5°	501.4	447.8	308.4	216.3	193.1	184.1	177.9	175.2	173.4	174.3	174.3
25°	532.7	465.7	289.6	199.3	183.2	175.2	168.0	164.5	164.5	165.4	166.3
27.5°	572.9	487.1	270.8	188.6	174.3	166.3	158.2	154.6	155.5	157.3	157.3
30°	631.9	516.6	252.1	177.0	164.5	155.5	148.4	144.8	146.6	150.2	150.2
32.5°	716.0	564.9	236.0	163.6	150.2	140.3	133.2	130.5	135.0	142.1	142.1
35°	866.1	653.4	226.1	150.2	135.0	123.3	114.4	111.7	118.0	126.9	126.9
37.5°	1067.2	795.5	229.7	138.5	122.5	109.0	99.2	95.6	100.1	108.2	110.8
40°	1291.6	967.1	261.0	128.7	110.8	97.4	87.6	84.0	86.7	90.3	91.2
42.5°	1515.9	1149.5	320.0	121.6	101.9	87.6	78.7	76.0	77.8	78.7	79.6
45°	1739.4	1330.0	394.2	117.1	93.9	79.6	70.6	70.6	71.5	71.5	71.5
47.5°	1951.2	1506.1	471.9	116.2	86.7	71.5	64.4	65.2	65.2	66.1	66.1
50°	2151.5	1663.4	550.6	118.9	80.4	64.4	59.0	59.0	59.0	59.9	59.0
52.5°	2318.6	1801.1	632.8	123.3	74.2	59.0	53.6	53.6	53.6	54.5	53.6
55°	2476.8	1926.2	716.9	129.6	68.8	54.5	49.2	47.4	47.4	48.3	47.4
57.5°	2605.5	2009.3	796.4	130.5	64.4	50.1	45.6	42.9	42.9	42.9	42.9
60°	2610.9	1961.1	819.6	114.4	59.0	45.6	41.1	37.5	38.4	38.4	38.4
62.5°	2440.2	1707.2	658.8	85.8	52.7	41.1	37.5	34.0	34.0	34.0	34.0
65°	2105.0	1328.2	386.1	67.9	45.6	36.6	33.1	30.4	30.4	30.4	29.5
66°	1947.7	1164.7	295.9	61.7	42.9	35.8	32.2	29.5	28.6	27.7	27.7
67.5°	1691.1	920.6	185.0	54.5	39.3	33.1	29.5	26.8	25.9	25.0	25.0
70°	1273.7	584.6	90.3	42.0	34.0	28.6	25.9	23.2	22.3	21.5	20.6
72.5°	893.8	342.3	47.4	32.2	27.7	25.0	22.3	19.7	18.8	17.9	17.9
75°	505.0	165.4	31.3	23.2	22.3	20.6	18.8	16.1	15.2	15.2	15.2
77.5°	191.3	57.2	21.5	17.0	17.9	16.1	13.4	13.4	12.5	13.4	12.5
80°	50.1	25.0	13.4	12.5	13.4	11.6	9.8	10.7	10.7	10.7	10.7
82.5°	26.8	14.3	8.0	8.9	8.0	8.0	6.3	7.2	8.0	7.2	8.0
85°	18.8	7.2	4.5	4.5	3.6	3.6	2.7	3.6	4.5	3.6	3.6
87.5°	9.8	2.7	2.7	2.7	2.7	1.8	0.9	0.0	0.9	0.9	0.9
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)