

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: P1210172

Luminaire Tested: **ARCH2-40-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4705 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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



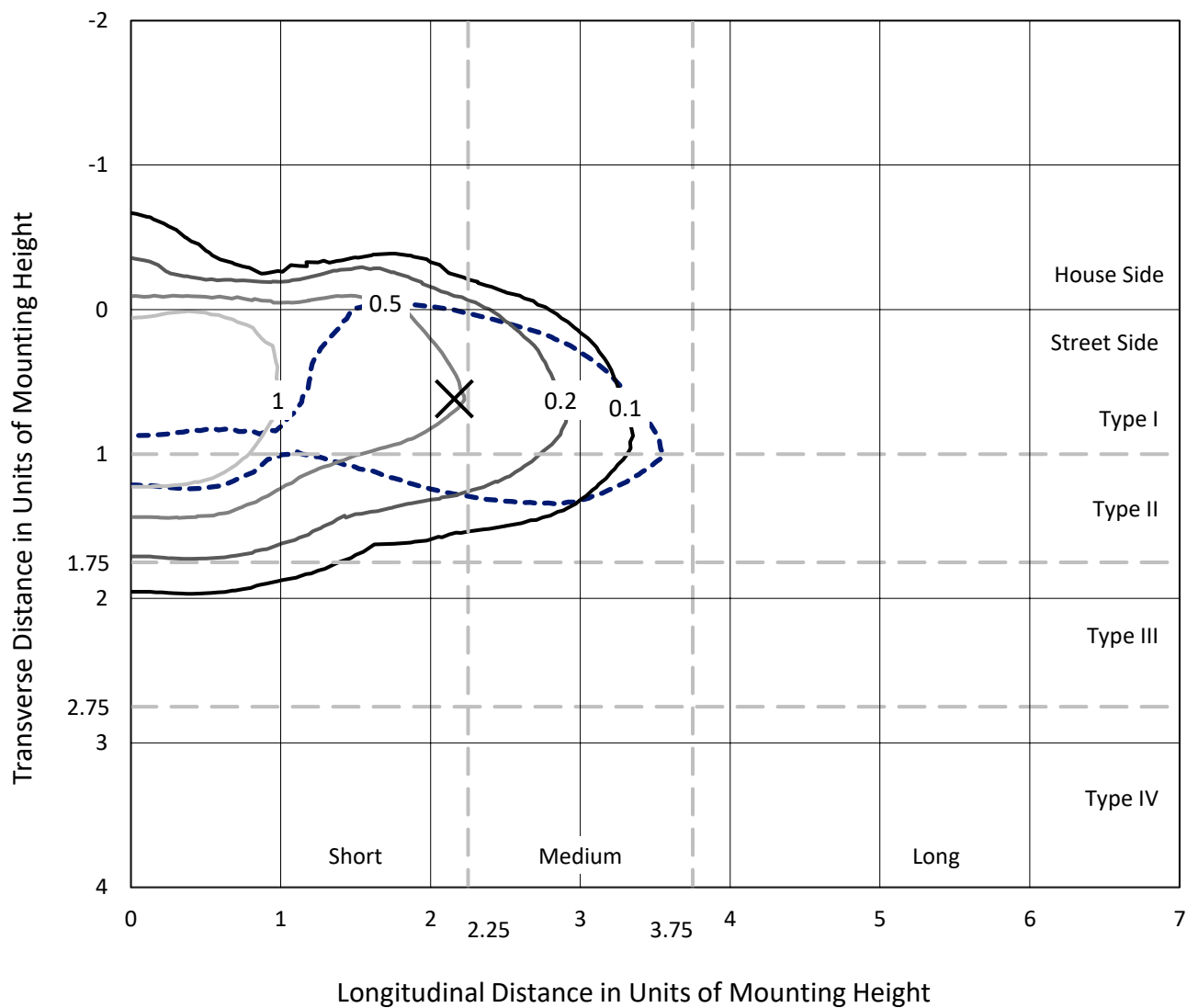
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

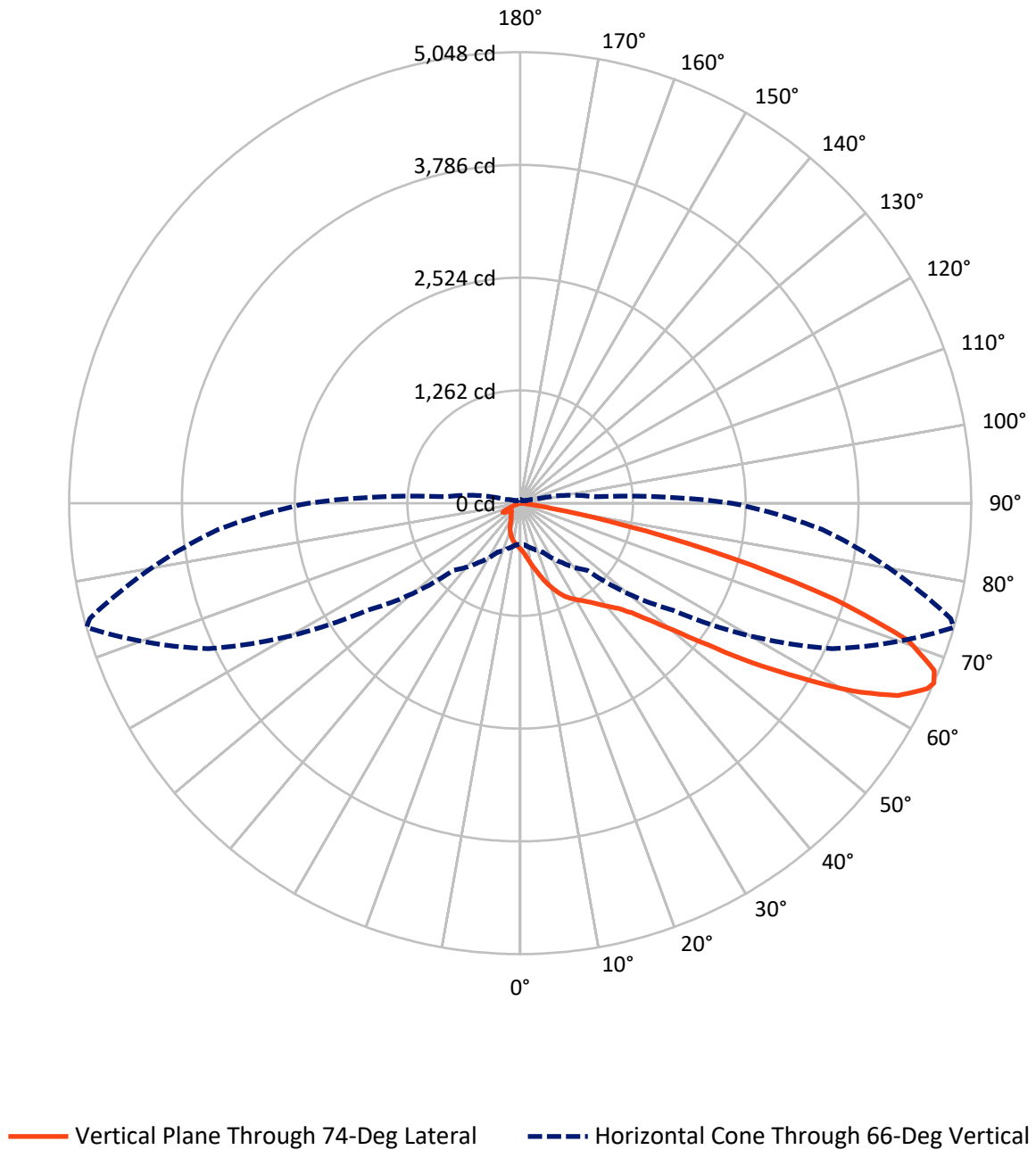
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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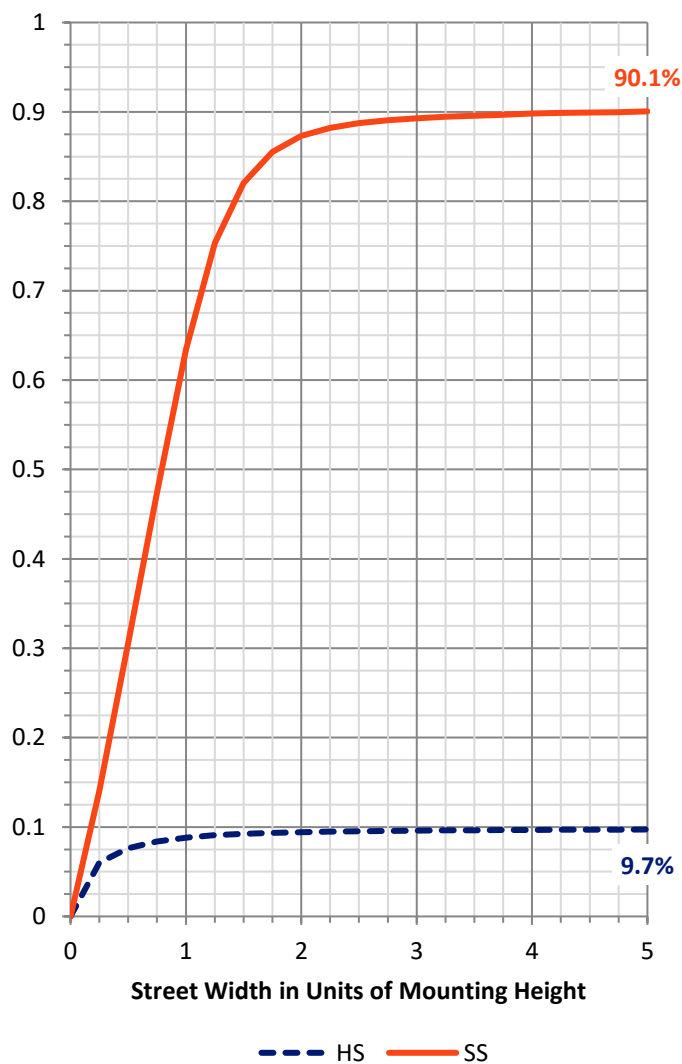
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.2	0.0	461.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4243.8	0.0	4243.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	4705.0	0.0	4705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.1
10°-20°	160.7	3.4
20°-30°	306.7	6.5
30°-40°	537.6	11.4
40°-50°	921.8	19.6
50°-60°	1198.9	25.5
60°-70°	1085.3	23.1
70°-80°	418.8	8.9
80°-90°	25.2	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°	4705.0	100.0
0°-180°	4705.0	100.0

Coefficient of Utilization



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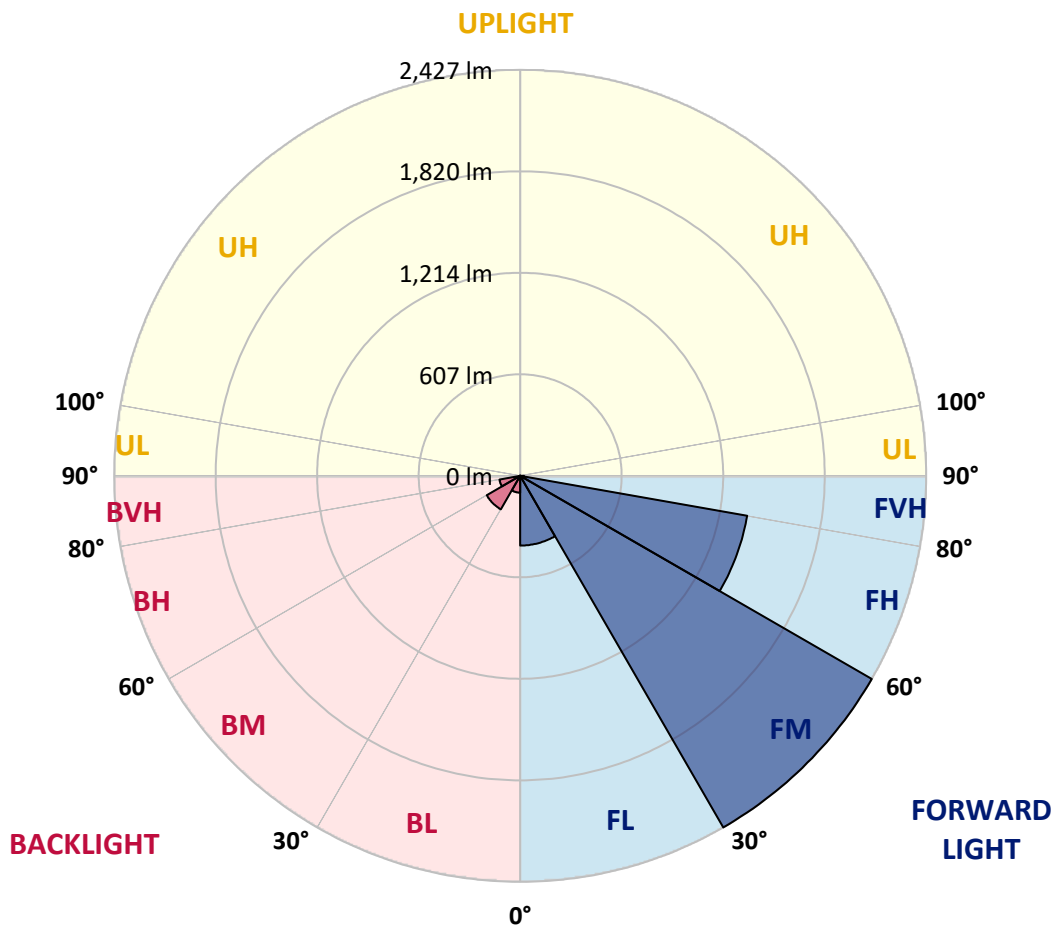
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.9	8.9			
FM	(30°-60°)	2427.1	51.6			
FH	(60°-80°)	1377.9	29.3			G1/1800
FVH	(80°-90°)	21.8	0.5			G1/100
BL	(0°-30°)	100.6	2.1	B0/110		
BM	(30°-60°)	231.2	4.9	B1/1000		
BH	(60°-80°)	126.1	2.7	B1/500		G1/500
BVH	(80°-90°)	3.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6
2.5°	616.6	611.6	602.3	601.4	593.8	584.5	568.5	551.6	539.8	538.1	523.7
5°	738.3	735.8	726.5	720.5	706.2	684.2	647.1	609.9	578.6	575.3	543.2
7.5°	770.4	772.1	773.8	779.7	774.6	764.5	736.6	684.2	635.2	627.6	571.9
10°	775.5	773.8	773.8	781.4	795.7	810.1	806.7	761.9	698.6	689.3	611.6
12.5°	830.4	832.9	827.0	823.6	821.1	828.7	854.0	834.6	765.3	757.7	659.7
15°	901.3	900.5	892.0	892.0	884.4	871.8	887.8	902.2	845.6	836.3	714.6
17.5°	952.8	956.2	955.4	960.4	957.9	941.0	932.6	962.1	928.4	916.5	777.1
20°	994.2	1003.5	1006.9	1023.0	1030.6	1018.7	996.8	1015.4	1007.8	996.8	840.5
22.5°	1038.2	1045.8	1051.7	1079.6	1100.7	1098.1	1070.3	1066.0	1084.6	1074.5	903.0
25°	1082.1	1085.5	1103.2	1137.0	1170.8	1179.2	1150.5	1117.6	1153.9	1144.6	958.8
27.5°	1130.2	1131.9	1153.0	1194.4	1241.7	1259.5	1236.7	1175.9	1207.1	1207.1	1009.4
30°	1218.1	1235.0	1243.4	1280.6	1322.0	1346.5	1319.5	1237.5	1254.4	1262.0	1062.7
32.5°	1407.3	1409.8	1407.3	1423.4	1431.8	1446.2	1414.9	1306.8	1302.6	1311.0	1115.0
35°	1696.2	1686.1	1659.0	1635.4	1586.4	1559.4	1518.8	1395.5	1361.7	1373.5	1166.6
37.5°	2046.8	2032.4	1970.7	1898.1	1793.3	1685.2	1634.5	1503.6	1436.9	1452.1	1222.3
40°	2381.3	2372.0	2298.5	2208.9	2029.9	1844.9	1737.6	1594.8	1520.5	1526.4	1278.9
42.5°	2656.7	2655.0	2593.3	2499.5	2269.8	2017.2	1859.2	1684.4	1608.4	1617.6	1338.0
45°	2865.3	2849.2	2803.6	2736.1	2502.1	2196.3	2006.2	1820.4	1749.4	1760.4	1426.7
47.5°	2865.3	2867.8	2897.4	2890.6	2664.3	2364.4	2166.7	1991.9	1958.1	1968.2	1572.9
50°	2632.2	2655.8	2787.6	2898.2	2748.7	2495.3	2339.9	2206.4	2241.0	2256.3	1828.0
52.5°	2170.9	2210.6	2439.6	2692.1	2686.2	2561.2	2519.0	2479.3	2634.7	2661.7	2204.7
55°	1649.7	1675.9	1974.1	2306.1	2414.2	2507.1	2675.2	2825.6	3155.9	3150.0	2587.4
57.5°	1232.5	1256.9	1513.7	1882.0	2024.8	2273.1	2755.5	3221.8	3672.9	3695.7	2946.4
60°	906.4	925.0	1143.8	1446.2	1652.3	1915.0	2723.4	3612.0	4268.4	4242.2	3263.2
62.5°	670.7	680.8	838.8	1035.6	1309.3	1560.2	2521.5	3879.0	4744.0	4690.7	3439.7
65°	518.7	522.0	604.0	708.7	952.0	1213.0	2220.8	3919.5	5006.7	4950.1	3436.3
66°	462.1	464.6	524.6	605.7	810.1	1061.8	2089.0	3854.5	5048.1	4988.1	3394.1
67.5°	387.7	386.0	421.5	474.7	608.2	819.4	1855.0	3664.4	4999.1	4968.7	3258.9
70°	287.2	288.1	305.8	318.5	355.6	453.6	1339.7	3178.7	4607.1	4605.4	2888.1
72.5°	212.9	215.4	228.9	231.5	222.2	245.8	772.1	2528.3	3685.5	3686.4	2159.1
75°	159.7	163.9	168.1	169.8	161.3	155.4	348.9	1701.3	2424.4	2406.6	1222.3
77.5°	121.6	123.3	126.7	124.2	122.5	107.3	145.3	829.5	1197.0	1090.5	396.2
80°	88.7	88.7	92.1	88.7	87.9	76.9	79.4	266.1	351.4	292.3	85.3
82.5°	55.8	54.9	57.4	56.6	54.9	49.0	46.5	74.3	81.1	72.6	41.4
85°	31.3	30.4	29.6	28.7	26.2	22.0	25.3	27.9	37.2	38.0	29.6
87.5°	11.0	11.0	10.1	9.3	7.6	7.6	9.3	9.3	13.5	13.5	15.2
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°	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6	513.6
2.5°	517.0	507.7	494.2	476.4	463.8	451.1	437.6	430.0	419.0	416.4	419.8
5°	526.3	509.4	475.6	438.4	406.3	377.6	350.6	334.5	318.5	312.5	315.1
7.5°	545.7	517.0	459.5	399.6	346.3	303.3	271.2	252.6	238.2	232.3	234.0
10°	574.4	530.5	444.3	355.6	287.2	241.6	214.6	202.7	194.3	190.9	191.8
12.5°	609.0	549.9	424.9	311.7	236.5	196.8	184.1	181.6	179.9	178.2	179.1
15°	647.9	566.8	402.1	268.6	196.8	174.9	170.6	169.8	168.9	168.9	168.9
17.5°	688.4	582.0	376.7	228.1	171.5	161.3	158.8	158.8	158.8	159.7	159.7
20°	726.5	593.8	347.2	191.8	157.1	148.7	147.0	147.0	147.8	148.7	148.7
22.5°	763.6	598.9	312.5	166.4	145.3	137.7	135.2	135.2	135.2	136.0	136.0
25°	795.7	598.9	277.9	150.4	135.2	127.6	124.2	123.3	124.2	124.2	124.2
27.5°	822.8	596.4	244.1	139.4	125.0	117.4	114.0	113.2	114.9	115.7	115.7
30°	851.5	593.0	217.1	129.2	116.6	109.0	105.6	105.6	108.1	111.5	111.5
32.5°	879.4	595.5	196.0	120.8	108.1	102.2	98.8	99.7	104.7	109.8	109.8
35°	908.9	600.6	183.3	114.9	102.2	96.3	93.8	96.3	101.4	106.4	106.4
37.5°	938.5	606.5	175.7	109.8	97.1	91.2	89.5	92.9	98.8	103.9	104.7
40°	969.7	611.6	167.3	104.7	93.8	87.0	86.2	89.5	97.1	102.2	103.1
42.5°	1008.6	621.7	157.1	100.5	90.4	81.9	82.8	85.3	92.9	100.5	101.4
45°	1084.6	653.8	147.0	96.3	86.2	79.4	77.7	79.4	87.9	96.3	98.0
47.5°	1227.4	726.5	136.0	92.1	81.9	77.7	71.0	72.6	80.2	89.5	90.4
50°	1501.1	881.0	130.1	87.9	78.6	71.8	64.2	64.2	70.1	78.6	78.6
52.5°	1927.7	1158.1	133.5	84.5	74.3	65.9	58.3	57.4	60.8	66.7	66.7
55°	2388.0	1462.2	146.1	81.1	69.3	62.5	54.1	49.8	52.4	55.8	55.8
57.5°	2753.0	1615.1	180.8	79.4	63.4	60.0	49.0	43.1	45.6	49.0	49.0
60°	2913.4	1525.6	219.6	81.1	59.1	55.8	43.9	38.0	42.2	45.6	46.5
62.5°	2783.4	1256.1	235.7	76.9	53.2	49.8	43.1	35.5	40.5	43.1	43.9
65°	2502.1	954.5	184.1	66.7	49.0	43.1	38.9	33.8	38.0	40.5	40.5
66°	2368.6	832.1	157.1	61.7	47.3	40.5	37.2	33.8	37.2	38.9	39.7
67.5°	2161.6	656.3	116.6	54.1	43.9	37.2	34.6	32.1	35.5	37.2	37.2
70°	1690.3	391.1	70.1	42.2	38.0	32.9	31.3	29.6	32.1	32.9	32.9
72.5°	1058.4	185.8	44.8	31.3	32.1	31.3	26.2	27.9	28.7	29.6	29.6
75°	512.7	73.5	30.4	22.8	26.2	29.6	21.1	24.5	25.3	27.0	26.2
77.5°	142.8	35.5	19.4	16.9	22.8	22.8	16.0	19.4	22.8	28.7	26.2
80°	41.4	22.8	12.7	12.7	16.0	16.0	11.0	13.5	15.2	16.9	17.7
82.5°	28.7	15.2	8.4	9.3	9.3	10.1	6.8	6.8	8.4	8.4	9.3
85°	22.8	6.8	5.1	5.9	4.2	5.1	3.4	3.4	4.2	3.4	3.4
87.5°	9.3	3.4	3.4	3.4	2.5	2.5	1.7	0.8	0.8	0.8	0.8
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)