

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: P1211560

Luminaire Tested: **ARCH4-40-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211560
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: ARCH4-40-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5570 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

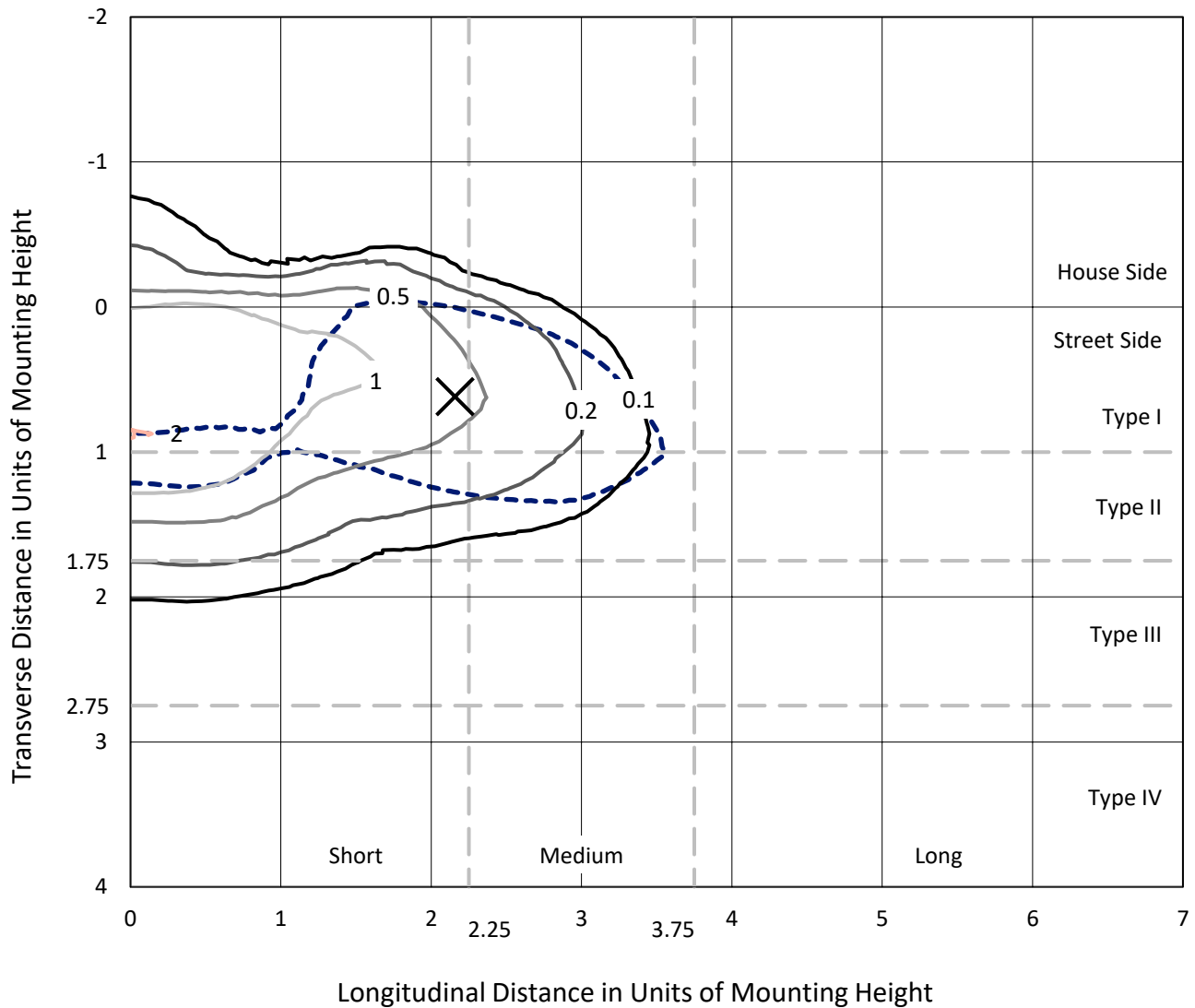
Input Watts (W): 43.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P1211560
CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

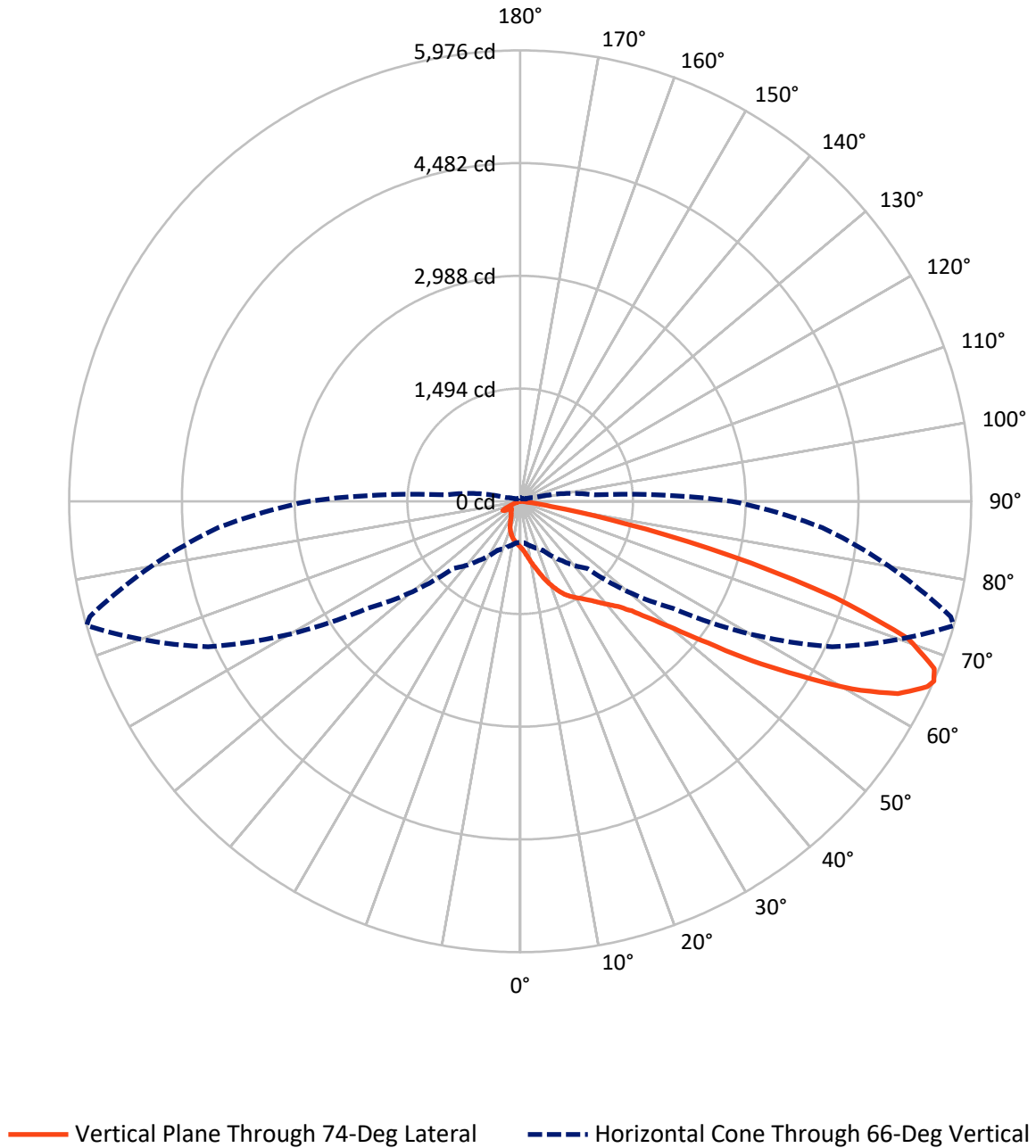
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

REPORT NUMBER: P1211560
CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211560

CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

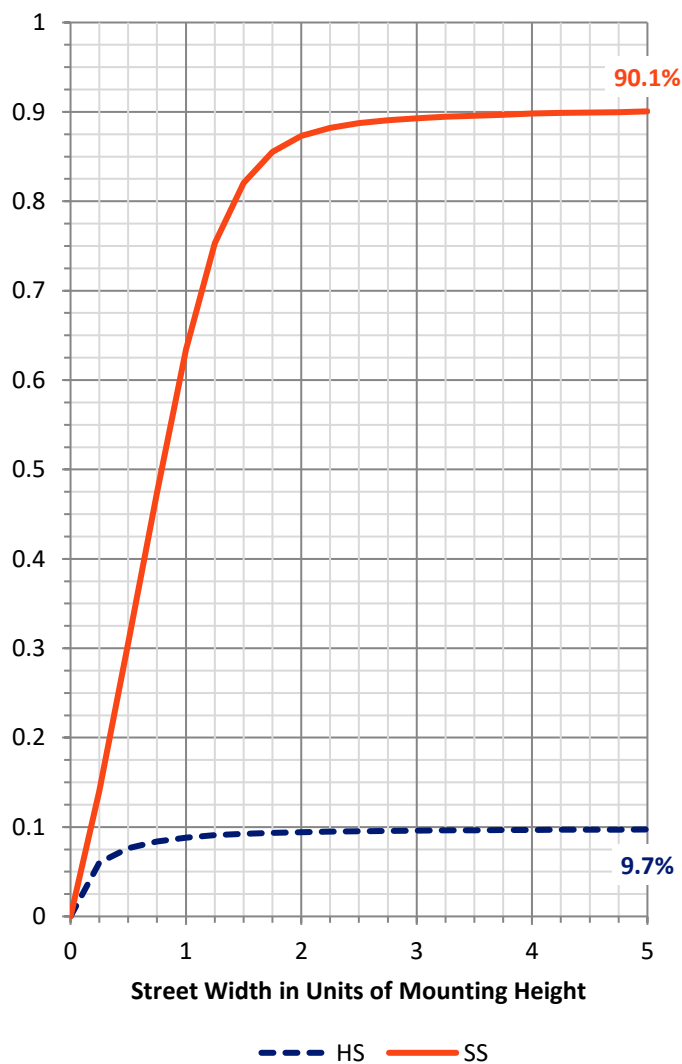
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.0	0.0	546.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5023.9	0.0	5023.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	5570.0	0.0	5570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.1
10°-20°	190.2	3.4
20°-30°	363.1	6.5
30°-40°	636.4	11.4
40°-50°	1091.3	19.6
50°-60°	1419.3	25.5
60°-70°	1284.8	23.1
70°-80°	495.7	8.9
80°-90°	29.8	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°	5570.0	100.0
0°-180°	5570.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211560

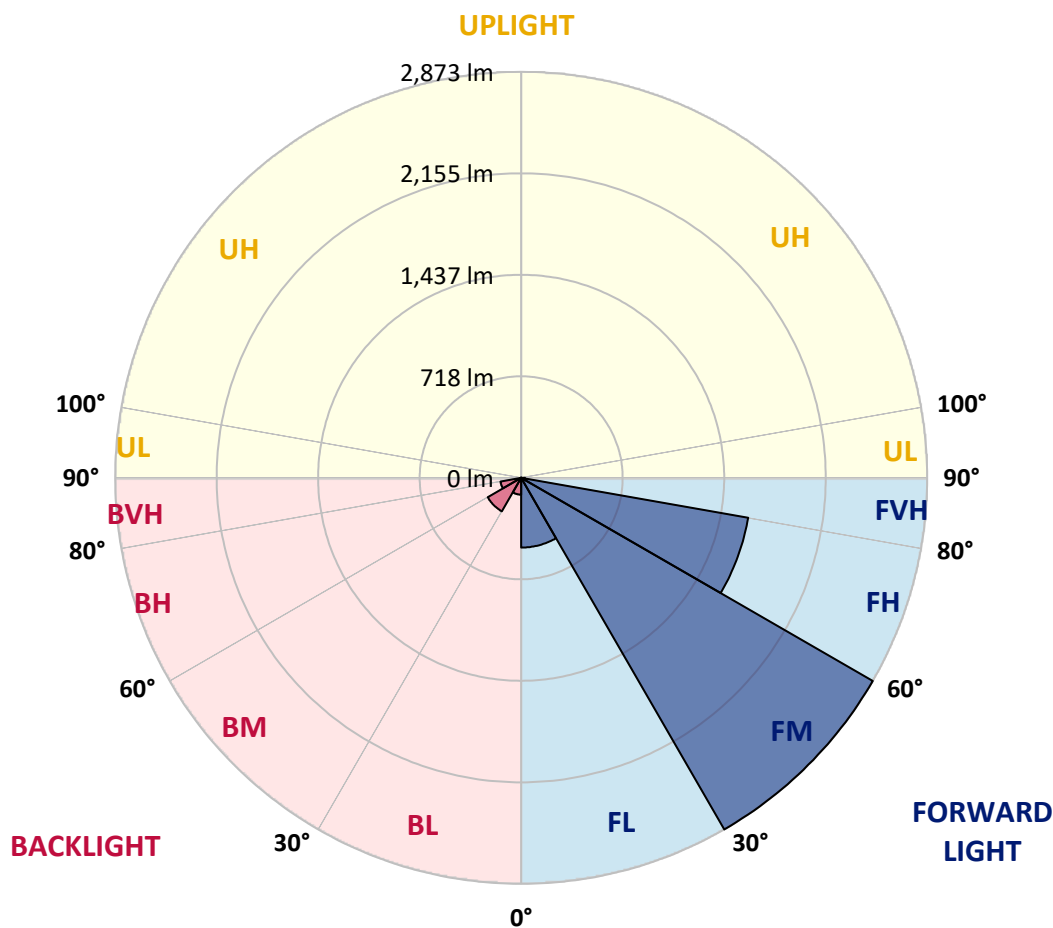
CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.6	8.9			
FM	(30°-60°)	2873.3	51.6			
FH	(60°-80°)	1631.3	29.3			G1/1800
FVH	(80°-90°)	25.8	0.5			G1/100
BL	(0°-30°)	119.1	2.1	B1/500		
BM	(30°-60°)	273.7	4.9	B1/1000		
BH	(60°-80°)	149.3	2.7	B1/500		G1/500
BVH	(80°-90°)	4.0	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 II Short



REPORT NUMBER: P1211560

CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	730.0	724.0	713.0	712.0	703.0	692.0	673.0	653.0	639.0	637.0	620.0
5°	874.0	871.0	860.0	853.0	836.0	810.0	766.0	722.0	685.0	681.0	643.0
7.5°	912.0	914.0	916.0	923.0	917.0	905.0	872.0	810.0	752.0	743.0	677.0
10°	918.0	916.0	916.0	925.0	942.0	959.0	955.0	902.0	827.0	816.0	724.0
12.5°	983.0	986.0	979.0	975.0	972.0	981.0	1011.0	988.0	906.0	897.0	781.0
15°	1067.0	1066.0	1056.0	1056.0	1047.0	1032.0	1051.0	1068.0	1001.0	990.0	846.0
17.5°	1128.0	1132.0	1131.0	1137.0	1134.0	1114.0	1104.0	1139.0	1099.0	1085.0	920.0
20°	1177.0	1188.0	1192.0	1211.0	1220.0	1206.0	1180.0	1202.0	1193.0	1180.0	995.0
22.5°	1229.0	1238.0	1245.0	1278.0	1303.0	1300.0	1267.0	1262.0	1284.0	1272.0	1069.0
25°	1281.0	1285.0	1306.0	1346.0	1386.0	1396.0	1362.0	1323.0	1366.0	1355.0	1135.0
27.5°	1338.0	1340.0	1365.0	1414.0	1470.0	1491.0	1464.0	1392.0	1429.0	1429.0	1195.0
30°	1442.0	1462.0	1472.0	1516.0	1565.0	1594.0	1562.0	1465.0	1485.0	1494.0	1258.0
32.5°	1666.0	1669.0	1666.0	1685.0	1695.0	1712.0	1675.0	1547.0	1542.0	1552.0	1320.0
35°	2008.0	1996.0	1964.0	1936.0	1878.0	1846.0	1798.0	1652.0	1612.0	1626.0	1381.0
37.5°	2423.1	2406.1	2333.1	2247.1	2123.0	1995.0	1935.0	1780.0	1701.0	1719.0	1447.0
40°	2819.1	2808.1	2721.1	2615.1	2403.1	2184.0	2057.0	1888.0	1800.0	1807.0	1514.0
42.5°	3145.1	3143.1	3070.1	2959.1	2687.1	2388.1	2201.0	1994.0	1904.0	1915.0	1584.0
45°	3392.1	3373.1	3319.1	3239.1	2962.1	2600.1	2375.1	2155.0	2071.0	2084.0	1689.0
47.5°	3392.1	3395.1	3430.1	3422.1	3154.1	2799.1	2565.1	2358.1	2318.1	2330.1	1862.0
50°	3116.1	3144.1	3300.1	3431.1	3254.1	2954.1	2770.1	2612.1	2653.1	2671.1	2164.0
52.5°	2570.1	2617.1	2888.1	3187.1	3180.1	3032.1	2982.1	2935.1	3119.1	3151.1	2610.1
55°	1953.0	1984.0	2337.1	2730.1	2858.1	2968.1	3167.1	3345.1	3736.1	3729.1	3063.1
57.5°	1459.0	1488.0	1792.0	2228.1	2397.1	2691.1	3262.1	3814.1	4348.1	4375.1	3488.1
60°	1073.0	1095.0	1354.0	1712.0	1956.0	2267.1	3224.1	4276.1	5053.1	5022.1	3863.1
62.5°	794.0	806.0	993.0	1226.0	1550.0	1847.0	2985.1	4592.1	5616.1	5553.1	4072.1
65°	614.0	618.0	715.0	839.0	1127.0	1436.0	2629.1	4640.1	5927.1	5860.1	4068.1
66°	547.0	550.0	621.0	717.0	959.0	1257.0	2473.1	4563.1	5976.1	5905.1	4018.1
67.5°	459.0	457.0	499.0	562.0	720.0	970.0	2196.0	4338.1	5918.1	5882.1	3858.1
70°	340.0	341.0	362.0	377.0	421.0	537.0	1586.0	3763.1	5454.1	5452.1	3419.1
72.5°	252.0	255.0	271.0	274.0	263.0	291.0	914.0	2993.1	4363.1	4364.1	2556.1
75°	189.0	194.0	199.0	201.0	191.0	184.0	413.0	2014.0	2870.1	2849.1	1447.0
77.5°	144.0	146.0	150.0	147.0	145.0	127.0	172.0	982.0	1417.0	1291.0	469.0
80°	105.0	105.0	109.0	105.0	104.0	91.0	94.0	315.0	416.0	346.0	101.0
82.5°	66.0	65.0	68.0	67.0	65.0	58.0	55.0	88.0	96.0	86.0	49.0
85°	37.0	36.0	35.0	34.0	31.0	26.0	30.0	33.0	44.0	45.0	35.0
87.5°	13.0	13.0	12.0	11.0	9.0	9.0	11.0	11.0	16.0	16.0	18.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211560

CATALOG NUMBER: ARCH4-40-750-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	612.0	601.0	585.0	564.0	549.0	534.0	518.0	509.0	496.0	493.0	497.0
5°	623.0	603.0	563.0	519.0	481.0	447.0	415.0	396.0	377.0	370.0	373.0
7.5°	646.0	612.0	544.0	473.0	410.0	359.0	321.0	299.0	282.0	275.0	277.0
10°	680.0	628.0	526.0	421.0	340.0	286.0	254.0	240.0	230.0	226.0	227.0
12.5°	721.0	651.0	503.0	369.0	280.0	233.0	218.0	215.0	213.0	211.0	212.0
15°	767.0	671.0	476.0	318.0	233.0	207.0	202.0	201.0	200.0	200.0	200.0
17.5°	815.0	689.0	446.0	270.0	203.0	191.0	188.0	188.0	188.0	189.0	189.0
20°	860.0	703.0	411.0	227.0	186.0	176.0	174.0	174.0	175.0	176.0	176.0
22.5°	904.0	709.0	370.0	197.0	172.0	163.0	160.0	160.0	160.0	161.0	161.0
25°	942.0	709.0	329.0	178.0	160.0	151.0	147.0	146.0	147.0	147.0	147.0
27.5°	974.0	706.0	289.0	165.0	148.0	139.0	135.0	134.0	136.0	137.0	137.0
30°	1008.0	702.0	257.0	153.0	138.0	129.0	125.0	125.0	128.0	132.0	132.0
32.5°	1041.0	705.0	232.0	143.0	128.0	121.0	117.0	118.0	124.0	130.0	130.0
35°	1076.0	711.0	217.0	136.0	121.0	114.0	111.0	114.0	120.0	126.0	126.0
37.5°	1111.0	718.0	208.0	130.0	115.0	108.0	106.0	110.0	117.0	123.0	124.0
40°	1148.0	724.0	198.0	124.0	111.0	103.0	102.0	106.0	115.0	121.0	122.0
42.5°	1194.0	736.0	186.0	119.0	107.0	97.0	98.0	101.0	110.0	119.0	120.0
45°	1284.0	774.0	174.0	114.0	102.0	94.0	92.0	94.0	104.0	114.0	116.0
47.5°	1453.0	860.0	161.0	109.0	97.0	92.0	84.0	86.0	95.0	106.0	107.0
50°	1777.0	1043.0	154.0	104.0	93.0	85.0	76.0	76.0	83.0	93.0	93.0
52.5°	2282.1	1371.0	158.0	100.0	88.0	78.0	69.0	68.0	72.0	79.0	79.0
55°	2827.1	1731.0	173.0	96.0	82.0	74.0	64.0	59.0	62.0	66.0	66.0
57.5°	3259.1	1912.0	214.0	94.0	75.0	71.0	58.0	51.0	54.0	58.0	58.0
60°	3449.1	1806.0	260.0	96.0	70.0	66.0	52.0	45.0	50.0	54.0	55.0
62.5°	3295.1	1487.0	279.0	91.0	63.0	59.0	51.0	42.0	48.0	51.0	52.0
65°	2962.1	1130.0	218.0	79.0	58.0	51.0	46.0	40.0	45.0	48.0	48.0
66°	2804.1	985.0	186.0	73.0	56.0	48.0	44.0	40.0	44.0	46.0	47.0
67.5°	2559.1	777.0	138.0	64.0	52.0	44.0	41.0	38.0	42.0	44.0	44.0
70°	2001.0	463.0	83.0	50.0	45.0	39.0	37.0	35.0	38.0	39.0	39.0
72.5°	1253.0	220.0	53.0	37.0	38.0	37.0	31.0	33.0	34.0	35.0	35.0
75°	607.0	87.0	36.0	27.0	31.0	35.0	25.0	29.0	30.0	32.0	31.0
77.5°	169.0	42.0	23.0	20.0	27.0	27.0	19.0	23.0	27.0	34.0	31.0
80°	49.0	27.0	15.0	15.0	19.0	19.0	13.0	16.0	18.0	20.0	21.0
82.5°	34.0	18.0	10.0	11.0	11.0	12.0	8.0	8.0	10.0	10.0	11.0
85°	27.0	8.0	6.0	7.0	5.0	6.0	4.0	4.0	5.0	4.0	4.0
87.5°	11.0	4.0	4.0	4.0	3.0	3.0	2.0	1.0	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)