

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: P799942

Luminaire Tested: **ARCH2-60-750-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-750-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6498 lumens
Efficiency: N/A
Efficacy: 101.8 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): 63.8
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

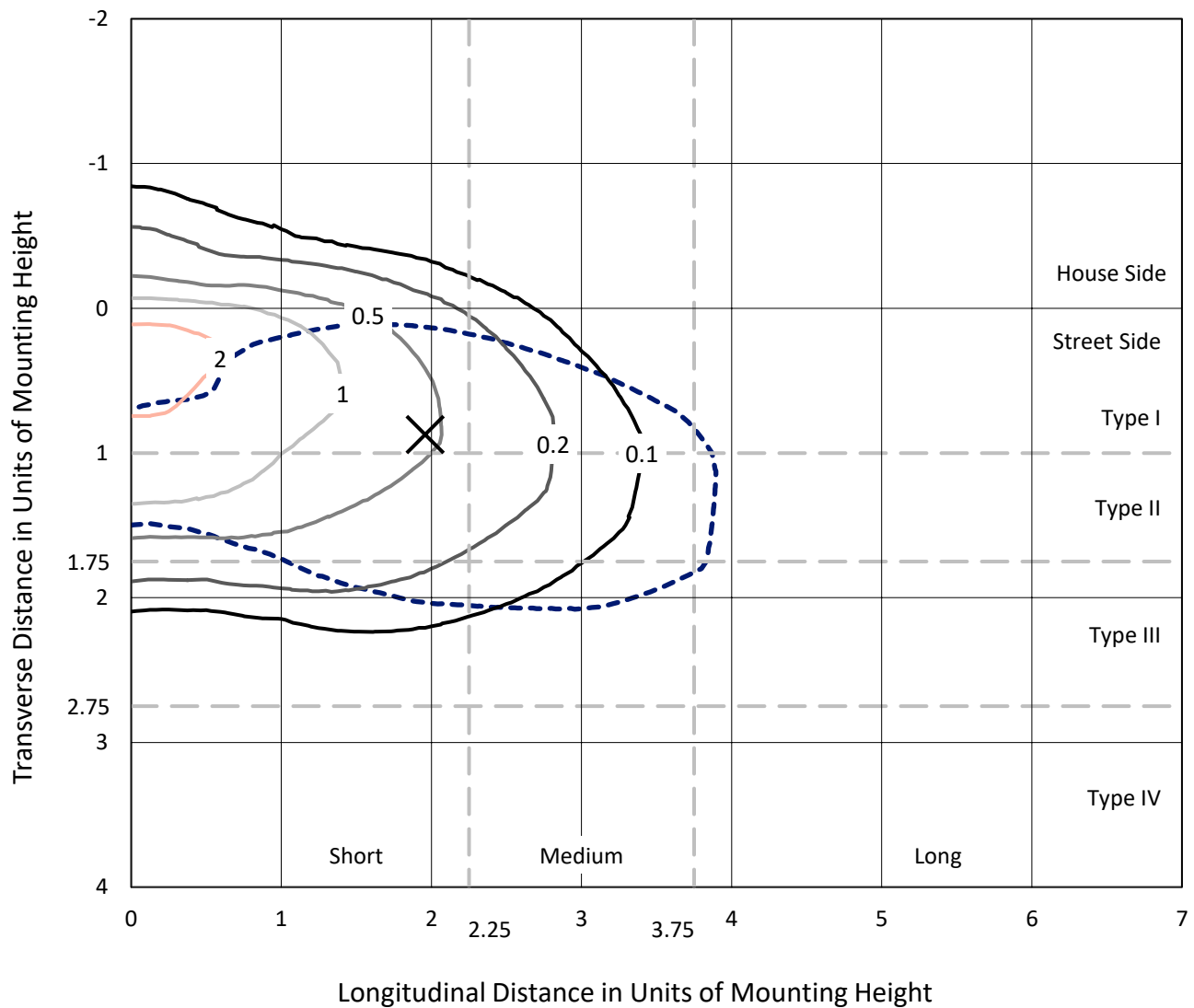


REPORT NUMBER: P799942

CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

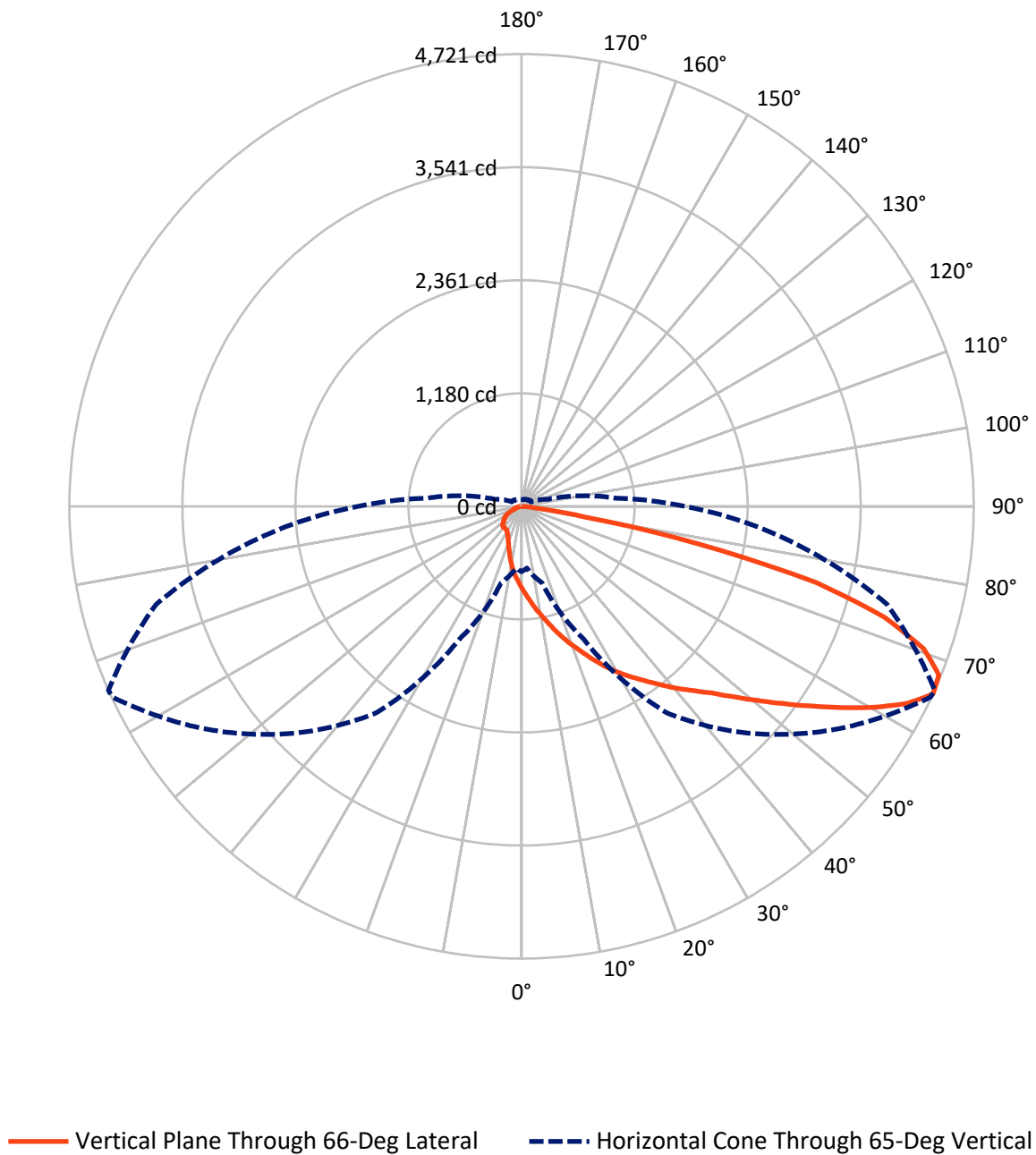


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type III - Short - N/A

REPORT NUMBER: P799942

CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P799942

CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

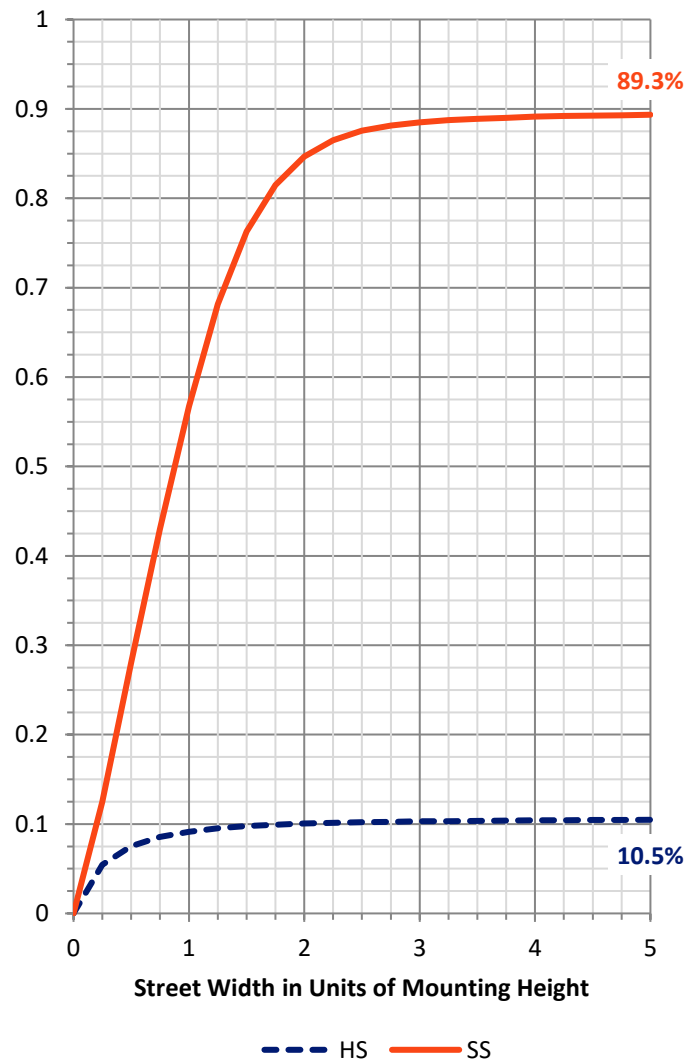
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	687.3	0.0	687.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5810.7	0.0	5810.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	6498.0	0.0	6498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	1.3
10°-20°	276.6	4.3
20°-30°	500.5	7.7
30°-40°	782.7	12.0
40°-50°	1187.4	18.3
50°-60°	1508.6	23.2
60°-70°	1409.6	21.7
70°-80°	700.6	10.8
80°-90°	47.1	0.7
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°	6498.0	100.0
0°-180°	6498.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799942

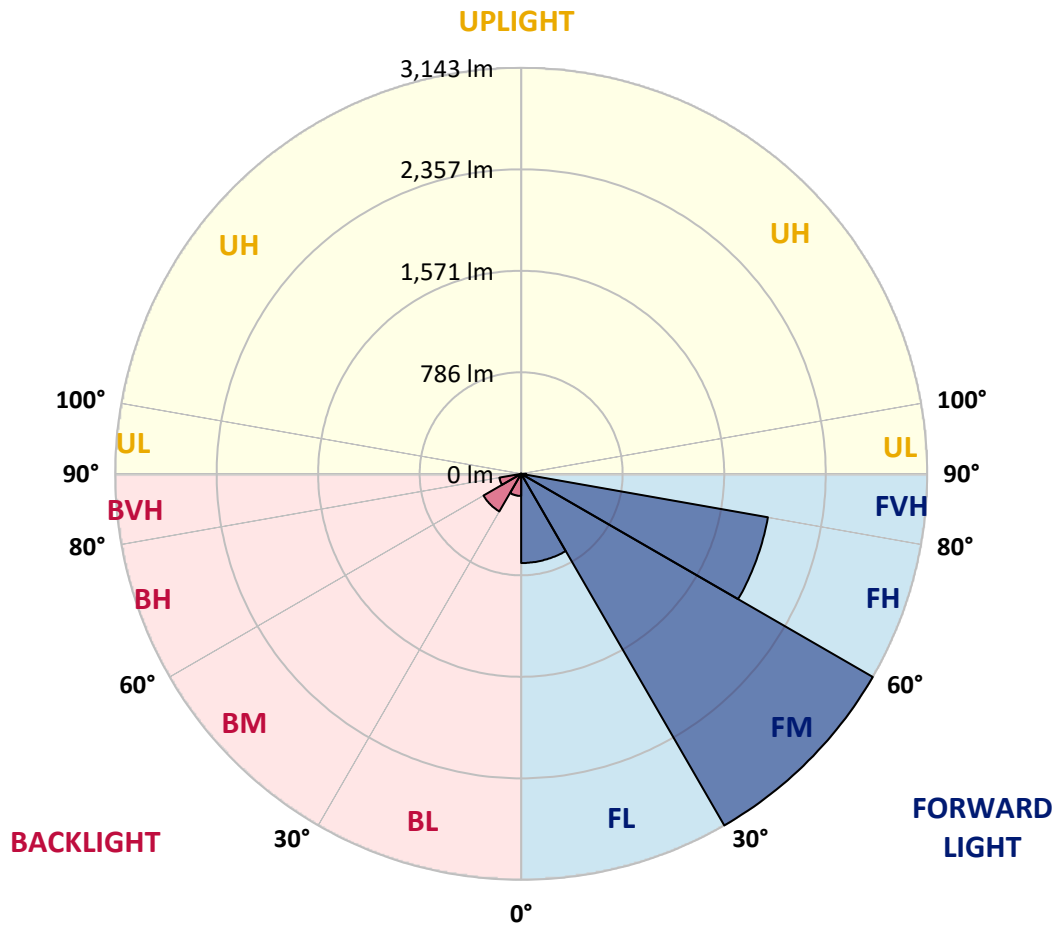
CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	690.4	10.6			
FM	(30°-60°)	3142.5	48.4			
FH	(60°-80°)	1939.0	29.8			G2/5000
FVH	(80°-90°)	38.7	0.6			G1/100
BL	(0°-30°)	171.7	2.6	B1/500		
BM	(30°-60°)	336.2	5.2	B1/1000		
BH	(60°-80°)	171.2	2.6	B1/500		G1/500
BVH	(80°-90°)	8.3	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



REPORT NUMBER: P799942

CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	1004.4	1012.6	1016.7	1018.1	986.7	973.1	959.5	928.1	921.3	903.6	880.4
5°	1181.6	1192.5	1189.8	1184.3	1146.2	1102.6	1067.1	1008.5	999.0	956.7	904.9
7.5°	1356.1	1365.6	1362.9	1342.4	1300.2	1238.9	1180.3	1094.4	1080.8	1012.6	929.5
10°	1501.9	1510.1	1508.7	1488.3	1437.8	1362.9	1292.0	1177.5	1161.2	1064.4	949.9
12.5°	1621.8	1632.7	1631.4	1617.7	1572.8	1491.0	1410.6	1272.9	1252.5	1127.1	978.5
15°	1715.9	1729.5	1729.5	1724.0	1692.7	1624.5	1533.2	1377.9	1353.3	1199.3	1014.0
17.5°	1773.1	1784.0	1793.5	1803.1	1781.3	1729.5	1646.4	1482.8	1456.9	1270.2	1050.8
20°	1803.1	1814.0	1820.8	1841.2	1845.3	1819.4	1754.0	1586.4	1559.1	1350.6	1093.0
22.5°	1852.1	1861.7	1863.1	1880.8	1888.9	1895.8	1854.9	1688.6	1666.8	1439.2	1140.7
25°	1933.9	1944.8	1940.7	1948.9	1950.3	1958.5	1954.4	1805.8	1784.0	1540.0	1198.0
27.5°	2038.9	2052.5	2049.8	2041.6	2029.3	2022.5	2040.2	1924.4	1903.9	1640.9	1256.6
30°	2152.0	2168.3	2164.2	2147.9	2115.2	2086.6	2111.1	2036.1	2017.1	1744.5	1322.0
32.5°	2266.5	2285.5	2284.2	2256.9	2201.0	2152.0	2188.8	2141.1	2127.4	1856.2	1392.9
35°	2341.4	2366.0	2363.2	2346.9	2274.6	2232.4	2277.4	2248.7	2239.2	1992.5	1495.1
37.5°	2462.7	2488.6	2465.4	2424.6	2341.4	2319.6	2374.1	2370.0	2363.2	2137.0	1602.7
40°	2757.1	2795.3	2733.9	2566.3	2430.0	2410.9	2488.6	2505.0	2498.2	2280.1	1699.5
42.5°	3065.1	3122.3	3026.9	2795.3	2590.8	2521.3	2614.0	2637.2	2629.0	2402.8	1786.7
45°	3251.8	3276.4	3181.0	3001.1	2875.7	2654.9	2747.6	2785.7	2778.9	2549.9	1898.5
47.5°	3404.5	3394.9	3285.9	3164.6	3187.8	2843.0	2898.8	2973.8	2968.3	2712.1	2021.1
50°	3437.2	3415.4	3371.8	3295.4	3356.8	3033.8	3058.3	3187.8	3182.3	2892.0	2145.2
52.5°	3206.8	3178.2	3296.8	3360.9	3340.4	3172.8	3234.1	3422.2	3419.5	3086.9	2263.7
55°	2631.7	2608.5	2927.5	3258.6	3322.7	3270.9	3429.0	3666.1	3681.1	3294.1	2371.4
57.5°	2070.2	2045.7	2359.1	3002.4	3257.3	3360.9	3656.6	3945.5	3964.6	3518.9	2473.6
60°	1650.4	1613.6	1853.5	2599.0	3134.6	3430.4	3876.0	4252.2	4254.9	3724.7	2536.3
62.5°	1121.6	1080.8	1346.5	2087.9	2928.8	3441.3	4045.0	4516.6	4527.5	3878.7	2547.2
65°	681.4	647.4	827.3	1525.1	2624.9	3348.6	4047.7	4711.5	4721.0	3949.6	2481.8
67.5°	395.2	381.6	472.9	949.9	2120.6	3099.2	3877.4	4681.5	4699.2	3919.6	2333.2
70°	230.3	229.0	263.0	470.2	1496.4	2604.5	3497.1	4429.3	4455.2	3762.9	2105.6
72.5°	169.0	171.7	185.4	252.1	866.8	1875.3	2961.5	3922.4	3961.9	3456.3	1781.3
75°	133.6	134.9	147.2	171.7	455.2	1060.3	2218.8	3148.2	3179.6	2909.7	1391.5
77.5°	99.5	102.2	111.8	121.3	211.2	486.5	1248.4	1939.4	1887.6	1597.3	671.9
80°	72.2	79.0	83.1	87.2	111.8	188.1	374.8	676.0	670.5	697.8	317.6
82.5°	46.3	51.8	55.9	58.6	66.8	89.9	111.8	151.3	163.5	271.2	126.7
85°	20.4	23.2	25.9	31.3	28.6	31.3	46.3	30.0	25.9	40.9	23.2
87.5°	0.0	0.0	4.1	6.8	5.5	2.7	8.2	5.5	4.1	4.1	4.1
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: P799942

CATALOG NUMBER: ARCH2-60-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0	860.0
2.5°	868.2	853.2	821.8	791.8	774.1	750.9	730.5	711.4	710.1	704.6	695.1
5°	879.1	850.4	791.8	736.0	693.7	648.7	610.6	580.6	569.7	561.5	550.6
7.5°	890.0	845.0	757.8	676.0	609.2	546.5	501.5	460.7	448.4	437.5	430.7
10°	894.0	835.4	718.2	609.2	522.0	455.2	407.5	377.5	366.6	361.2	357.1
12.5°	906.3	830.0	681.4	546.5	445.7	384.3	350.3	332.5	328.5	324.4	320.3
15°	922.7	830.0	644.6	485.2	385.7	336.6	316.2	303.9	301.2	299.8	297.1
17.5°	940.4	830.0	609.2	433.4	342.1	305.3	290.3	283.5	282.1	280.8	279.4
20°	964.9	831.4	571.0	388.4	310.7	282.1	269.8	261.7	260.3	258.9	258.9
22.5°	989.4	834.1	534.2	354.3	290.3	264.4	249.4	241.2	238.5	238.5	238.5
25°	1020.8	842.3	500.2	325.7	272.6	248.0	229.0	222.1	220.8	220.8	219.4
27.5°	1057.6	851.8	470.2	303.9	254.9	229.0	209.9	203.1	200.3	200.3	199.0
30°	1097.1	861.3	445.7	287.6	237.1	209.9	192.2	184.0	181.3	182.6	181.3
32.5°	1140.7	875.0	426.6	276.7	220.8	193.5	177.2	167.6	166.3	166.3	164.9
35°	1214.3	913.1	423.9	271.2	207.2	181.3	164.9	155.4	154.0	154.0	152.6
37.5°	1293.4	956.7	436.1	268.5	196.3	170.4	155.4	145.8	144.5	144.5	144.5
40°	1360.2	989.4	449.7	268.5	189.4	160.8	147.2	139.0	139.0	139.0	139.0
42.5°	1405.1	992.2	447.0	268.5	184.0	154.0	141.7	133.6	133.6	134.9	133.6
45°	1471.9	1005.8	436.1	264.4	179.9	148.6	136.3	129.5	128.1	129.5	129.5
47.5°	1551.0	1030.3	425.2	248.0	178.5	143.1	132.2	124.0	122.7	124.0	122.7
50°	1625.9	1052.1	419.8	226.2	175.8	137.7	126.7	118.6	117.2	118.6	117.2
52.5°	1688.6	1061.7	410.2	211.2	169.0	132.2	121.3	113.1	110.4	111.8	111.8
55°	1739.0	1059.0	396.6	199.0	156.7	126.7	114.5	107.7	103.6	103.6	102.2
57.5°	1785.4	1060.3	384.3	186.7	143.1	118.6	109.0	100.9	95.4	94.0	92.7
60°	1803.1	1053.5	362.5	170.4	129.5	111.8	102.2	92.7	87.2	85.9	84.5
62.5°	1778.6	1029.0	333.9	141.7	117.2	103.6	95.4	85.9	80.4	79.0	77.7
65°	1709.0	982.6	290.3	111.8	106.3	94.0	87.2	80.4	73.6	70.9	69.5
67.5°	1590.5	915.9	235.8	89.9	94.0	85.9	81.8	73.6	65.4	62.7	61.3
70°	1421.5	827.3	177.2	76.3	83.1	76.3	73.6	65.4	58.6	55.9	54.5
72.5°	1184.3	684.2	124.0	65.4	72.2	66.8	64.1	58.6	51.8	47.7	47.7
75°	895.4	490.6	81.8	55.9	60.0	57.2	53.2	49.1	45.0	42.2	40.9
77.5°	385.7	190.8	50.4	42.2	49.1	47.7	42.2	39.5	38.2	35.4	35.4
80°	166.3	77.7	31.3	31.3	35.4	34.1	32.7	30.0	30.0	28.6	27.3
82.5°	61.3	31.3	19.1	23.2	25.9	23.2	23.2	23.2	23.2	21.8	21.8
85°	15.0	9.5	9.5	13.6	15.0	13.6	15.0	13.6	13.6	13.6	12.3
87.5°	4.1	4.1	5.5	5.5	5.5	5.5	5.5	4.1	0.0	0.0	0.0
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)