

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: P836690

Luminaire Tested: **ARCH3-60-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

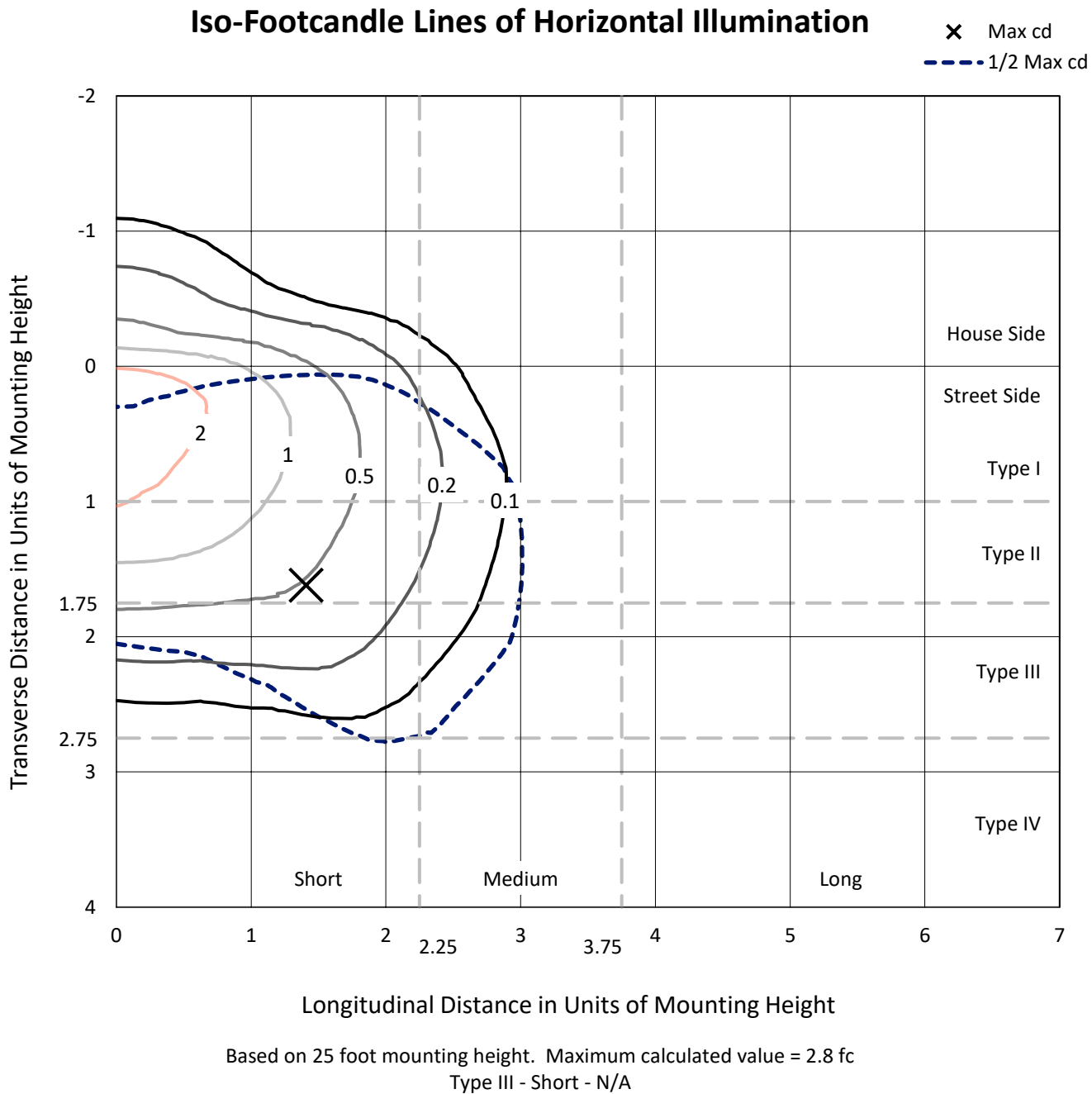
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7095 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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

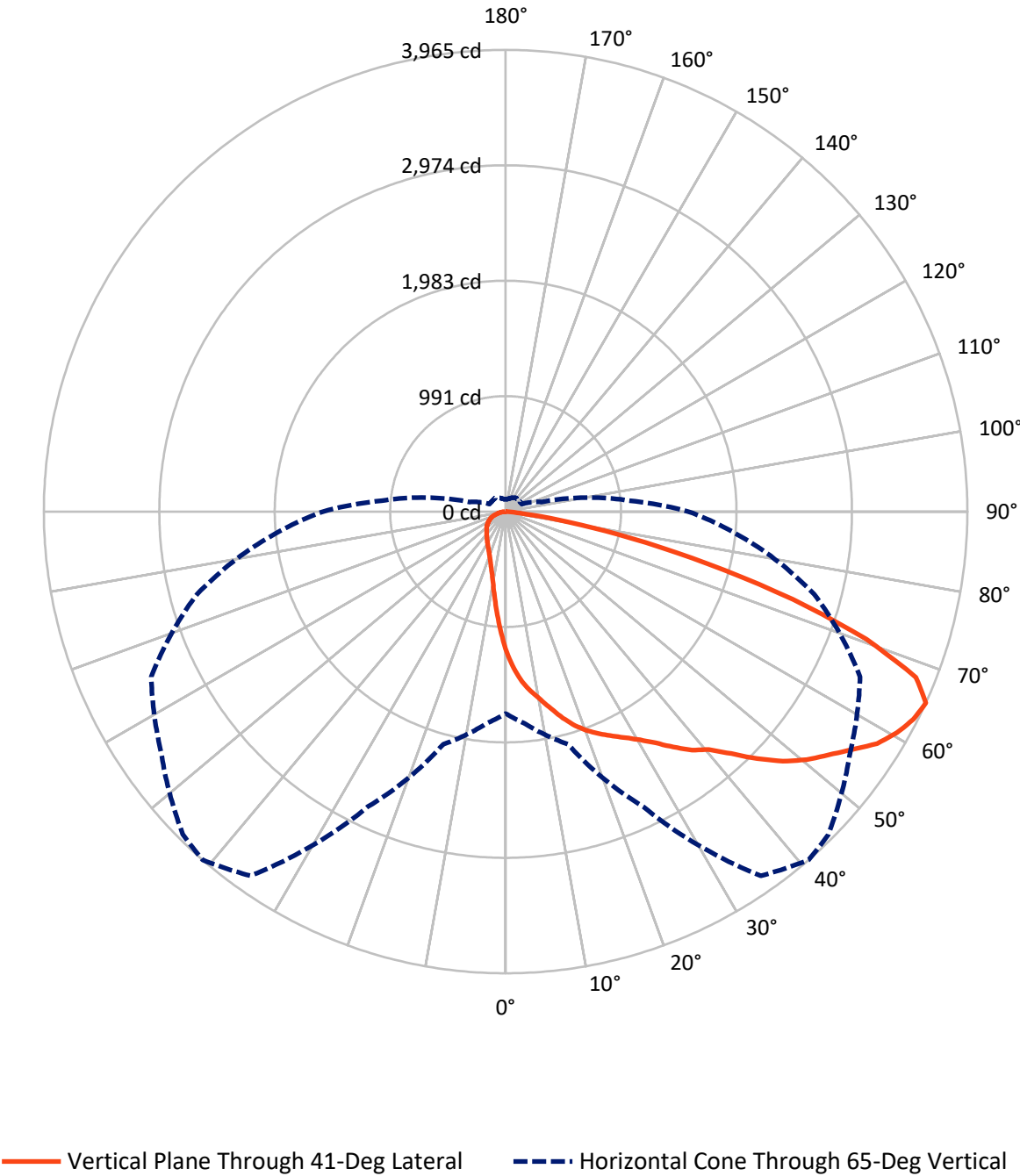


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.9	0.0	910.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	6184.1	0.0	6184.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	7095.0	0.0	7095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	1.6
10°-20°	337.8	4.8
20°-30°	581.1	8.2
30°-40°	881.3	12.4
40°-50°	1291.1	18.2
50°-60°	1630.4	23.0
60°-70°	1528.8	21.5
70°-80°	681.4	9.6
80°-90°	50.5	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°	7095.0	100.0
0°-180°	7095.0	100.0

Coefficient of Utilization



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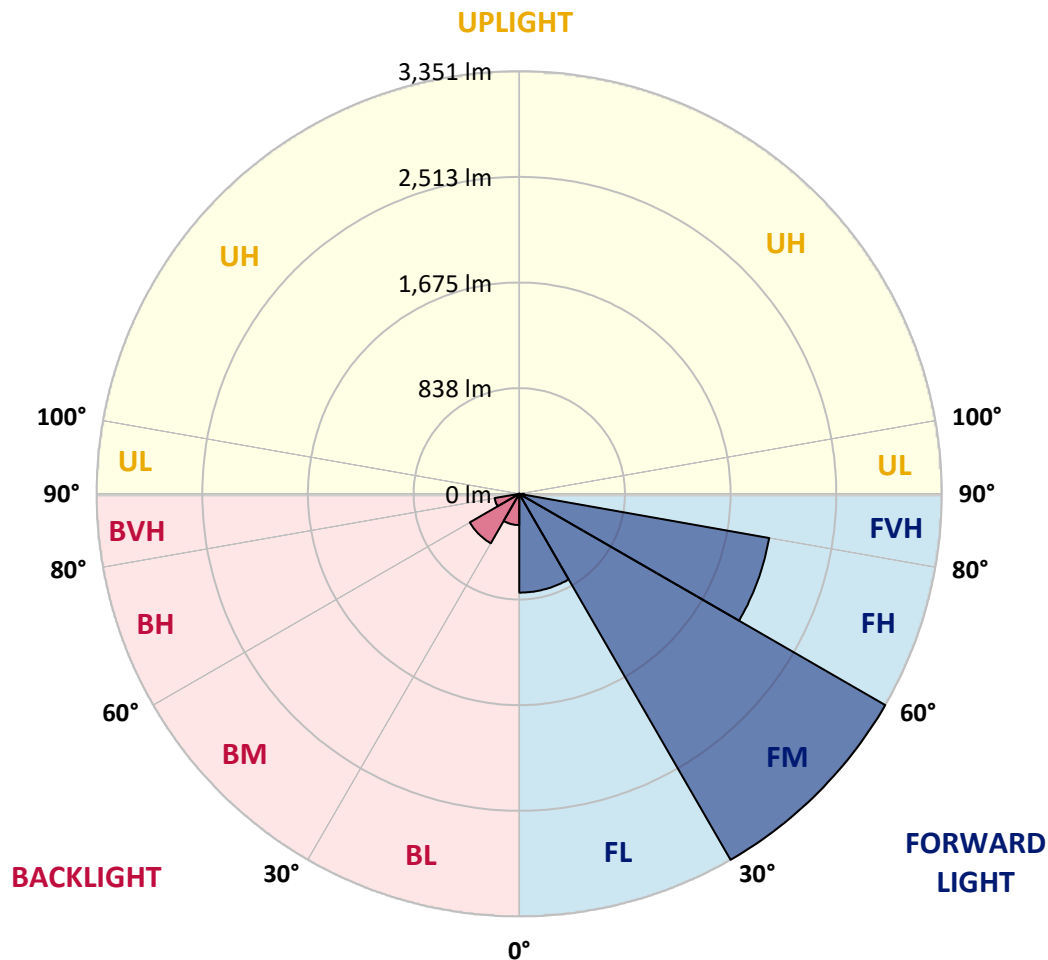
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.6	11.0			
FM	(30°-60°)	3350.5	47.2			
FH	(60°-80°)	2012.3	28.4			G2/5000
FVH	(80°-90°)	37.7	0.5			G1/100
BL	(0°-30°)	247.9	3.5	B1/500		
BM	(30°-60°)	452.3	6.4	B1/1000		
BH	(60°-80°)	197.9	2.8	B1/500		G1/500
BVH	(80°-90°)	12.8	0.2			G1/100
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°	41°	45°	55°	65°	75°	85°
0°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1394.5	1390.0	1387.0	1370.5	1370.5	1348.1	1349.6	1328.6	1303.2	1262.8	1219.4
5°	1526.2	1520.2	1512.7	1496.2	1490.2	1467.8	1464.8	1434.9	1391.5	1321.2	1243.4
7.5°	1641.4	1635.4	1624.9	1601.0	1584.5	1557.6	1550.1	1511.2	1463.3	1376.5	1267.3
10°	1746.1	1741.6	1728.1	1698.2	1675.8	1642.9	1629.4	1577.0	1517.2	1421.4	1286.8
12.5°	1852.3	1846.3	1828.4	1803.0	1776.0	1737.1	1720.7	1653.3	1577.0	1470.8	1315.2
15°	1951.1	1942.1	1928.6	1901.7	1877.8	1840.4	1822.4	1743.1	1650.3	1526.2	1352.6
17.5°	2015.4	2007.9	1996.0	1981.0	1961.6	1933.1	1915.2	1837.4	1723.7	1580.0	1391.5
20°	2054.3	2051.3	2046.8	2037.9	2028.9	2009.4	1996.0	1922.7	1803.0	1632.4	1428.9
22.5°	2084.2	2081.3	2079.8	2079.8	2081.3	2073.8	2064.8	2002.0	1879.3	1687.7	1463.3
25°	2130.6	2129.1	2126.1	2123.1	2133.6	2135.1	2132.1	2088.7	1975.0	1761.1	1506.7
27.5°	2195.0	2190.5	2184.5	2181.5	2192.0	2199.5	2205.4	2175.5	2076.8	1835.9	1556.1
30°	2293.7	2280.2	2265.3	2254.8	2262.3	2274.3	2287.7	2269.8	2181.5	1928.6	1606.9
32.5°	2410.4	2394.0	2359.5	2340.1	2359.5	2368.5	2379.0	2370.0	2290.7	2028.9	1657.8
35°	2552.6	2533.1	2497.2	2468.8	2503.2	2483.7	2479.2	2470.3	2394.0	2127.6	1714.7
37.5°	2789.0	2760.5	2703.7	2640.8	2640.8	2598.9	2582.5	2555.6	2486.7	2215.9	1770.0
40°	3062.8	3025.4	2952.1	2859.3	2774.0	2687.2	2676.7	2657.3	2596.0	2317.7	1832.9
42.5°	3363.5	3291.7	3190.0	3077.7	2940.1	2841.3	2817.4	2762.0	2702.2	2420.9	1895.7
45°	3697.2	3547.6	3399.4	3342.6	3115.1	3025.4	2980.5	2880.2	2812.9	2528.6	1961.6
47.5°	3751.0	3634.3	3535.6	3526.6	3278.2	3203.4	3152.5	3008.9	2932.6	2643.8	2030.4
50°	3721.1	3650.8	3661.3	3625.4	3397.9	3348.6	3309.7	3146.6	3050.8	2754.6	2093.2
52.5°	3595.4	3634.3	3694.2	3628.3	3511.6	3471.2	3451.8	3294.7	3161.5	2856.3	2150.1
55°	3445.8	3472.7	3601.4	3682.2	3643.3	3607.4	3589.4	3466.8	3270.8	2941.6	2202.4
57.5°	3227.4	3215.4	3357.5	3673.2	3781.0	3760.0	3740.6	3635.8	3372.5	3002.9	2235.4
60°	2899.7	2874.3	3053.8	3493.7	3825.9	3858.8	3849.8	3748.0	3450.3	3001.4	2221.9
62.5°	2332.6	2395.5	2643.8	3200.4	3845.3	3929.1	3912.6	3757.0	3475.7	2914.6	2136.6
65°	1734.1	1823.9	2067.8	2796.4	3818.4	3965.0	3920.1	3610.4	3357.5	2742.6	1949.6
67.5°	1249.3	1328.6	1506.7	2301.2	3559.5	3800.4	3748.0	3371.0	3085.2	2498.7	1690.7
70°	854.3	911.2	1032.4	1675.8	3038.8	3285.7	3252.8	3013.4	2655.8	2208.4	1373.5
72.5°	603.0	626.9	704.7	1105.7	2308.7	2578.0	2539.1	2479.2	2133.6	1835.9	1068.3
75°	451.9	466.8	508.7	715.2	1557.6	1786.5	1750.6	1785.0	1593.5	1390.0	778.0
77.5°	170.6	185.5	288.8	456.3	921.7	1096.7	1060.8	1081.8	885.8	701.7	387.5
80°	46.4	49.4	95.8	217.0	418.9	546.1	496.7	426.4	329.2	323.2	205.0
82.5°	19.5	22.4	43.4	116.7	149.6	149.6	125.7	155.6	125.7	151.1	98.8
85°	7.5	9.0	10.5	29.9	19.5	20.9	22.4	29.9	25.4	31.4	22.4
87.5°	0.0	0.0	0.0	1.5	1.5	3.0	1.5	3.0	4.5	4.5	4.5
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°	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0	1209.0
2.5°	1201.5	1185.0	1161.1	1122.2	1081.8	1059.3	1030.9	1026.4	996.5	993.5	981.5
5°	1209.0	1174.5	1113.2	1038.4	965.1	908.2	866.3	843.9	800.5	800.5	788.5
7.5°	1214.9	1161.1	1062.3	951.6	851.4	775.0	718.2	694.2	655.3	652.4	643.4
10°	1216.4	1144.6	1007.0	863.3	740.6	662.8	607.5	580.5	546.1	543.1	537.1
12.5°	1228.4	1135.6	957.6	787.0	661.3	577.5	523.7	501.2	474.3	471.3	465.3
15°	1247.9	1135.6	915.7	722.7	591.0	513.2	466.8	445.9	426.4	423.4	420.4
17.5°	1267.3	1132.6	873.8	662.8	532.7	462.3	421.9	405.5	390.5	389.0	386.0
20°	1285.3	1131.1	831.9	612.0	487.8	420.4	389.0	374.1	362.1	362.1	360.6
22.5°	1303.2	1128.2	791.5	564.1	448.9	389.0	362.1	345.6	336.7	336.7	335.2
25°	1330.1	1128.2	754.1	523.7	417.4	365.1	338.1	326.2	318.7	317.2	317.2
27.5°	1361.6	1137.1	721.2	487.8	390.5	341.1	320.2	308.2	299.2	296.3	297.7
30°	1396.0	1144.6	691.3	456.3	365.1	323.2	300.7	288.8	279.8	276.8	278.3
32.5°	1430.4	1153.6	664.3	427.9	339.6	306.7	284.3	270.8	261.8	260.3	260.3
35°	1467.8	1162.6	637.4	404.0	318.7	290.3	269.3	254.4	248.4	245.4	246.9
37.5°	1505.2	1177.5	612.0	381.5	303.7	275.3	255.9	240.9	236.4	234.9	234.9
40°	1550.1	1200.0	601.5	366.6	290.3	261.8	245.4	230.4	225.9	225.9	225.9
42.5°	1587.5	1217.9	592.5	350.1	279.8	249.9	234.9	222.9	219.9	218.4	219.9
45°	1624.9	1234.4	580.5	335.2	266.3	237.9	225.9	214.0	211.0	211.0	211.0
47.5°	1662.3	1243.4	564.1	320.2	254.4	227.4	217.0	206.5	203.5	203.5	203.5
50°	1692.2	1250.8	540.1	303.7	240.9	218.4	208.0	197.5	194.5	194.5	194.5
52.5°	1722.2	1252.3	514.7	284.3	227.4	208.0	199.0	188.5	185.5	184.0	184.0
55°	1749.1	1250.8	484.8	261.8	212.5	196.0	188.5	179.5	173.6	167.6	170.6
57.5°	1768.5	1249.3	450.4	239.4	197.5	184.0	181.0	169.1	157.1	142.1	145.1
60°	1761.1	1232.9	413.0	211.0	181.0	172.1	172.1	155.6	134.7	127.2	128.7
62.5°	1713.2	1186.5	374.1	181.0	164.6	160.1	158.6	140.6	124.2	116.7	118.2
65°	1569.5	1069.8	317.2	154.1	148.1	146.6	146.6	130.2	115.2	106.2	107.7
67.5°	1351.1	897.7	258.8	130.2	131.7	134.7	134.7	119.7	104.7	95.8	97.3
70°	1083.3	701.7	206.5	112.2	113.7	118.2	121.2	107.7	94.3	85.3	85.3
72.5°	815.4	532.7	166.1	94.3	101.7	101.7	106.2	95.8	82.3	73.3	74.8
75°	591.0	381.5	131.7	79.3	88.3	86.8	86.8	80.8	70.3	64.3	64.3
77.5°	279.8	200.5	104.7	56.9	68.8	67.3	68.8	64.3	59.8	53.9	55.4
80°	137.7	98.8	67.3	40.4	47.9	49.4	53.9	50.9	49.4	44.9	44.9
82.5°	65.8	38.9	31.4	28.4	32.9	34.4	37.4	37.4	38.9	35.9	35.9
85°	18.0	10.5	13.5	18.0	20.9	22.4	25.4	26.9	26.9	25.4	26.9
87.5°	4.5	4.5	6.0	9.0	10.5	12.0	13.5	13.5	6.0	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)