

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: P836762

Luminaire Tested: **ARCH3-70-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836762
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: ARCH3-70-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

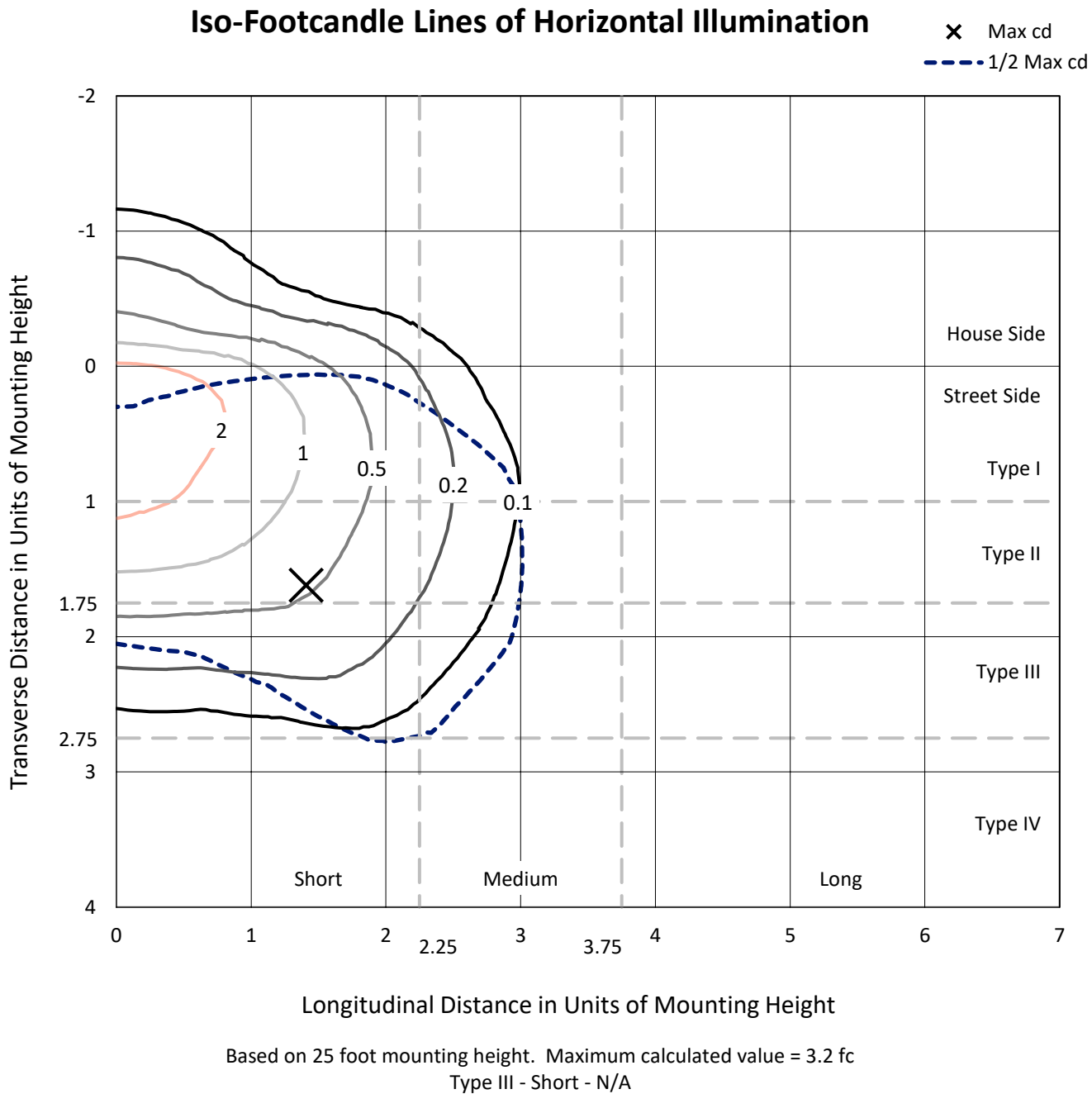
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8080 lumens
Efficiency: N/A
Efficacy: 110.5 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): 73.1
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

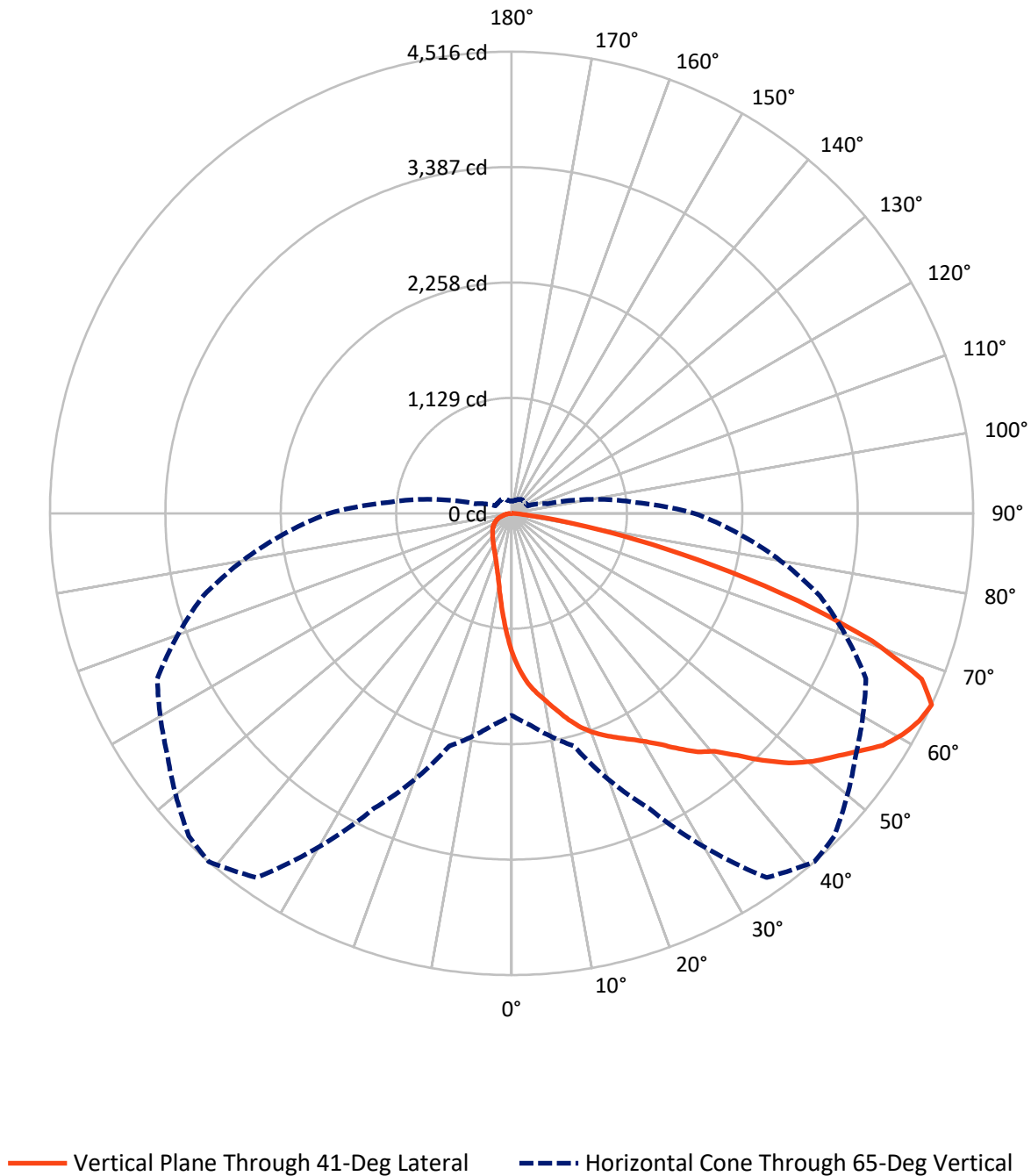


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1037.3	0.0	1037.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7042.7	0.0	7042.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	8080.0	0.0	8080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	1.6
10°-20°	384.7	4.8
20°-30°	661.8	8.2
30°-40°	1003.7	12.4
40°-50°	1470.4	18.2
50°-60°	1856.8	23.0
60°-70°	1741.1	21.5
70°-80°	776.0	9.6
80°-90°	57.5	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°	8080.0	100.0
0°-180°	8080.0	100.0

Coefficient of Utilization



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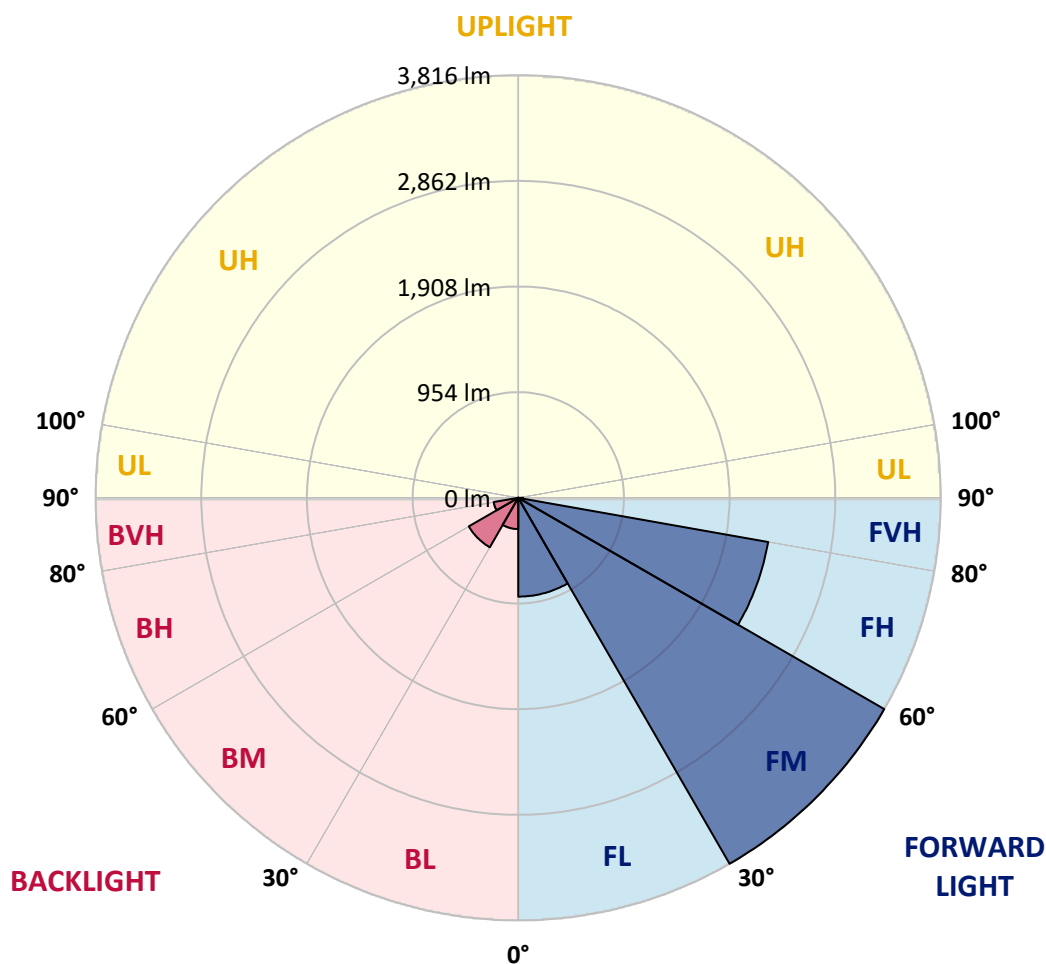
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.3	11.0			
FM	(30°-60°)	3815.7	47.2			
FH	(60°-80°)	2291.7	28.4			G2/5000
FVH	(80°-90°)	42.9	0.5			G1/100
BL	(0°-30°)	282.4	3.5	B1/500		
BM	(30°-60°)	515.1	6.4	B1/1000		
BH	(60°-80°)	225.3	2.8	B1/500		G1/500
BVH	(80°-90°)	14.6	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°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1588.1	1583.0	1579.6	1560.8	1560.8	1535.3	1537.0	1513.1	1484.1	1438.1	1388.7
5°	1738.0	1731.2	1722.7	1703.9	1697.1	1671.6	1668.2	1634.1	1584.7	1504.6	1416.0
7.5°	1869.2	1862.4	1850.5	1823.2	1804.5	1773.8	1765.3	1721.0	1666.5	1567.6	1443.2
10°	1988.5	1983.4	1968.1	1934.0	1908.4	1870.9	1855.6	1796.0	1727.8	1618.8	1465.4
12.5°	2109.5	2102.7	2082.2	2053.3	2022.6	1978.3	1959.5	1882.9	1796.0	1675.0	1497.8
15°	2221.9	2211.7	2196.4	2165.7	2138.5	2095.9	2075.4	1985.1	1879.5	1738.0	1540.4
17.5°	2295.2	2286.7	2273.1	2256.0	2233.9	2201.5	2181.1	2092.4	1962.9	1799.4	1584.7
20°	2339.5	2336.1	2331.0	2320.8	2310.6	2288.4	2273.1	2189.6	2053.3	1859.0	1627.3
22.5°	2373.6	2370.2	2368.5	2368.5	2370.2	2361.7	2351.4	2279.9	2140.2	1922.1	1666.5
25°	2426.4	2424.7	2421.3	2417.9	2429.8	2431.5	2428.1	2378.7	2249.2	2005.5	1715.9
27.5°	2499.7	2494.6	2487.8	2484.4	2496.3	2504.8	2511.6	2477.5	2365.1	2090.7	1772.1
30°	2612.2	2596.8	2579.8	2567.8	2576.4	2590.0	2605.3	2584.9	2484.4	2196.4	1830.0
32.5°	2745.1	2726.3	2687.1	2665.0	2687.1	2697.3	2709.3	2699.1	2608.7	2310.6	1888.0
35°	2906.9	2884.8	2843.9	2811.5	2850.7	2828.6	2823.4	2813.2	2726.3	2423.0	1952.7
37.5°	3176.2	3143.8	3079.0	3007.5	3007.5	2959.8	2941.0	2910.3	2832.0	2523.5	2015.8
40°	3488.0	3445.4	3361.9	3256.2	3159.1	3060.3	3048.4	3026.2	2956.3	2639.4	2087.3
42.5°	3830.5	3748.7	3632.8	3505.0	3348.3	3235.8	3208.5	3145.5	3077.3	2757.0	2158.9
45°	4210.5	4040.1	3871.4	3806.6	3547.6	3445.4	3394.3	3280.1	3203.4	2879.7	2233.9
47.5°	4271.8	4138.9	4026.4	4016.2	3733.3	3648.2	3590.2	3426.6	3339.7	3010.9	2312.3
50°	4237.7	4157.6	4169.6	4128.7	3869.7	3813.4	3769.1	3583.4	3474.3	3137.0	2383.8
52.5°	4094.6	4138.9	4207.0	4132.1	3999.2	3953.2	3931.0	3752.1	3600.4	3252.8	2448.6
55°	3924.2	3954.9	4101.4	4193.4	4149.1	4108.2	4087.8	3948.0	3724.8	3350.0	2508.2
57.5°	3675.4	3661.8	3823.7	4183.2	4305.9	4282.0	4259.9	4140.6	3840.7	3419.8	2545.7
60°	3302.3	3273.3	3477.8	3978.7	4357.0	4394.5	4384.3	4268.4	3929.3	3418.1	2530.4
62.5°	2656.5	2728.0	3010.9	3644.7	4379.1	4474.6	4455.8	4278.6	3958.3	3319.3	2433.2
65°	1974.9	2077.1	2354.9	3184.7	4348.5	4515.5	4464.3	4111.6	3823.7	3123.3	2220.2
67.5°	1422.8	1513.1	1715.9	2620.7	4053.7	4328.0	4268.4	3839.0	3513.5	2845.6	1925.5
70°	973.0	1037.7	1175.7	1908.4	3460.7	3741.9	3704.4	3431.8	3024.5	2515.0	1564.2
72.5°	686.7	714.0	802.6	1259.2	2629.2	2935.9	2891.6	2823.4	2429.8	2090.7	1216.6
75°	514.6	531.6	579.3	814.5	1773.8	2034.5	1993.6	2032.8	1814.7	1583.0	886.1
77.5°	194.3	211.3	328.9	519.7	1049.6	1249.0	1208.1	1232.0	1008.7	799.2	441.3
80°	52.8	56.2	109.1	247.1	477.1	621.9	565.7	485.6	374.9	368.1	233.4
82.5°	22.2	25.6	49.4	132.9	170.4	170.4	143.1	177.2	143.1	172.1	112.5
85°	8.5	10.2	11.9	34.1	22.2	23.9	25.6	34.1	29.0	35.8	25.6
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	1.7	3.4	5.1	5.1	5.1
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°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1368.3	1349.5	1322.3	1278.0	1232.0	1206.4	1174.0	1168.9	1134.8	1131.4	1117.8
5°	1376.8	1337.6	1267.7	1182.5	1099.0	1034.3	986.6	961.0	911.6	911.6	898.0
7.5°	1383.6	1322.3	1209.8	1083.7	969.5	882.6	817.9	790.6	746.3	742.9	732.7
10°	1385.3	1303.5	1146.8	983.2	843.5	754.8	691.8	661.1	621.9	618.5	611.7
12.5°	1398.9	1293.3	1090.5	896.3	753.1	657.7	596.4	570.8	540.2	536.7	529.9
15°	1421.1	1293.3	1042.8	823.0	673.1	584.5	531.6	507.8	485.6	482.2	478.8
17.5°	1443.2	1289.9	995.1	754.8	606.6	526.5	480.5	461.8	444.7	443.0	439.6
20°	1463.7	1288.2	947.4	696.9	555.5	478.8	443.0	426.0	412.4	412.4	410.7
22.5°	1484.1	1284.8	901.4	642.4	511.2	443.0	412.4	393.6	383.4	383.4	381.7
25°	1514.8	1284.8	858.8	596.4	475.4	415.8	385.1	371.5	362.9	361.2	361.2
27.5°	1550.6	1295.0	821.3	555.5	444.7	388.5	364.6	351.0	340.8	337.4	339.1
30°	1589.8	1303.5	787.2	519.7	415.8	368.1	342.5	328.9	318.6	315.2	316.9
32.5°	1629.0	1313.7	756.6	487.3	386.8	349.3	323.8	308.4	298.2	296.5	296.5
35°	1671.6	1324.0	725.9	460.1	362.9	330.6	306.7	289.7	282.9	279.4	281.2
37.5°	1714.2	1341.0	696.9	434.5	345.9	313.5	291.4	274.3	269.2	267.5	267.5
40°	1765.3	1366.6	685.0	417.5	330.6	298.2	279.4	262.4	257.3	257.3	257.3
42.5°	1807.9	1387.0	674.8	398.7	318.6	284.6	267.5	253.9	250.5	248.8	250.5
45°	1850.5	1405.8	661.1	381.7	303.3	270.9	257.3	243.7	240.3	240.3	240.3
47.5°	1893.1	1416.0	642.4	364.6	289.7	259.0	247.1	235.1	231.7	231.7	231.7
50°	1927.2	1424.5	615.1	345.9	274.3	248.8	236.8	224.9	221.5	221.5	221.5
52.5°	1961.2	1426.2	586.2	323.8	259.0	236.8	226.6	214.7	211.3	209.6	209.6
55°	1991.9	1424.5	552.1	298.2	242.0	223.2	214.7	204.5	197.7	190.8	194.3
57.5°	2014.1	1422.8	512.9	272.6	224.9	209.6	206.2	192.5	178.9	161.9	165.3
60°	2005.5	1404.1	470.3	240.3	206.2	196.0	196.0	177.2	153.4	144.8	146.5
62.5°	1951.0	1351.2	426.0	206.2	187.4	182.3	180.6	160.2	141.4	132.9	134.6
65°	1787.4	1218.3	361.2	175.5	168.7	167.0	167.0	148.2	131.2	121.0	122.7
67.5°	1538.7	1022.4	294.8	148.2	149.9	153.4	153.4	136.3	119.3	109.1	110.8
70°	1233.7	799.2	235.1	127.8	129.5	134.6	138.0	122.7	107.3	97.1	97.1
72.5°	928.7	606.6	189.1	107.3	115.9	115.9	121.0	109.1	93.7	83.5	85.2
75°	673.1	434.5	149.9	90.3	100.5	98.8	98.8	92.0	80.1	73.3	73.3
77.5°	318.6	228.3	119.3	64.8	78.4	76.7	78.4	73.3	68.2	61.3	63.0
80°	156.8	112.5	76.7	46.0	54.5	56.2	61.3	57.9	56.2	51.1	51.1
82.5°	75.0	44.3	35.8	32.4	37.5	39.2	42.6	42.6	44.3	40.9	40.9
85°	20.4	11.9	15.3	20.4	23.9	25.6	29.0	30.7	30.7	29.0	30.7
87.5°	5.1	5.1	6.8	10.2	11.9	13.6	15.3	15.3	6.8	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)