

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: P842587

Luminaire Tested: **ARCH4-70-722-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7857 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

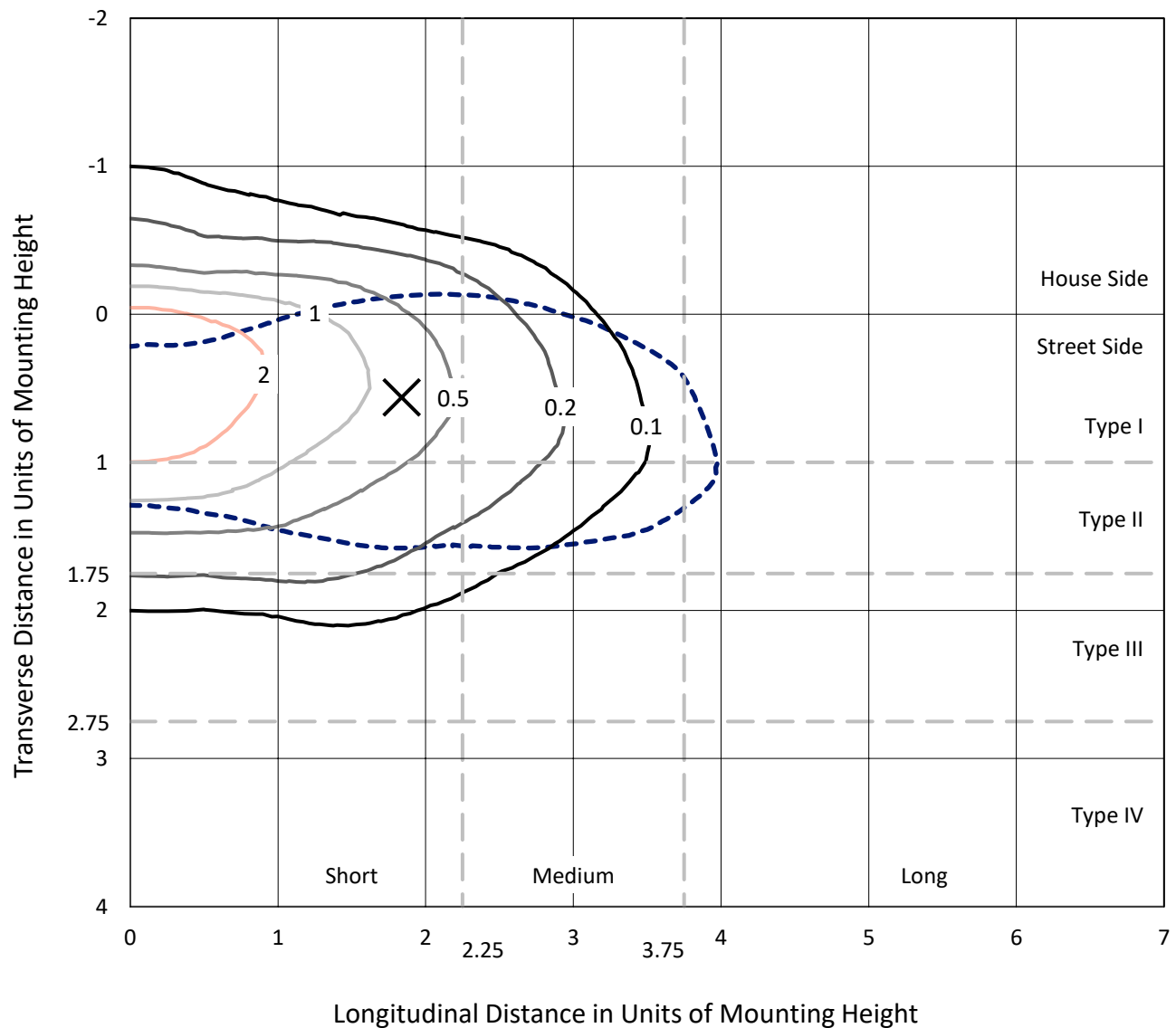


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Iso-Footcandle Lines of Horizontal Illumination

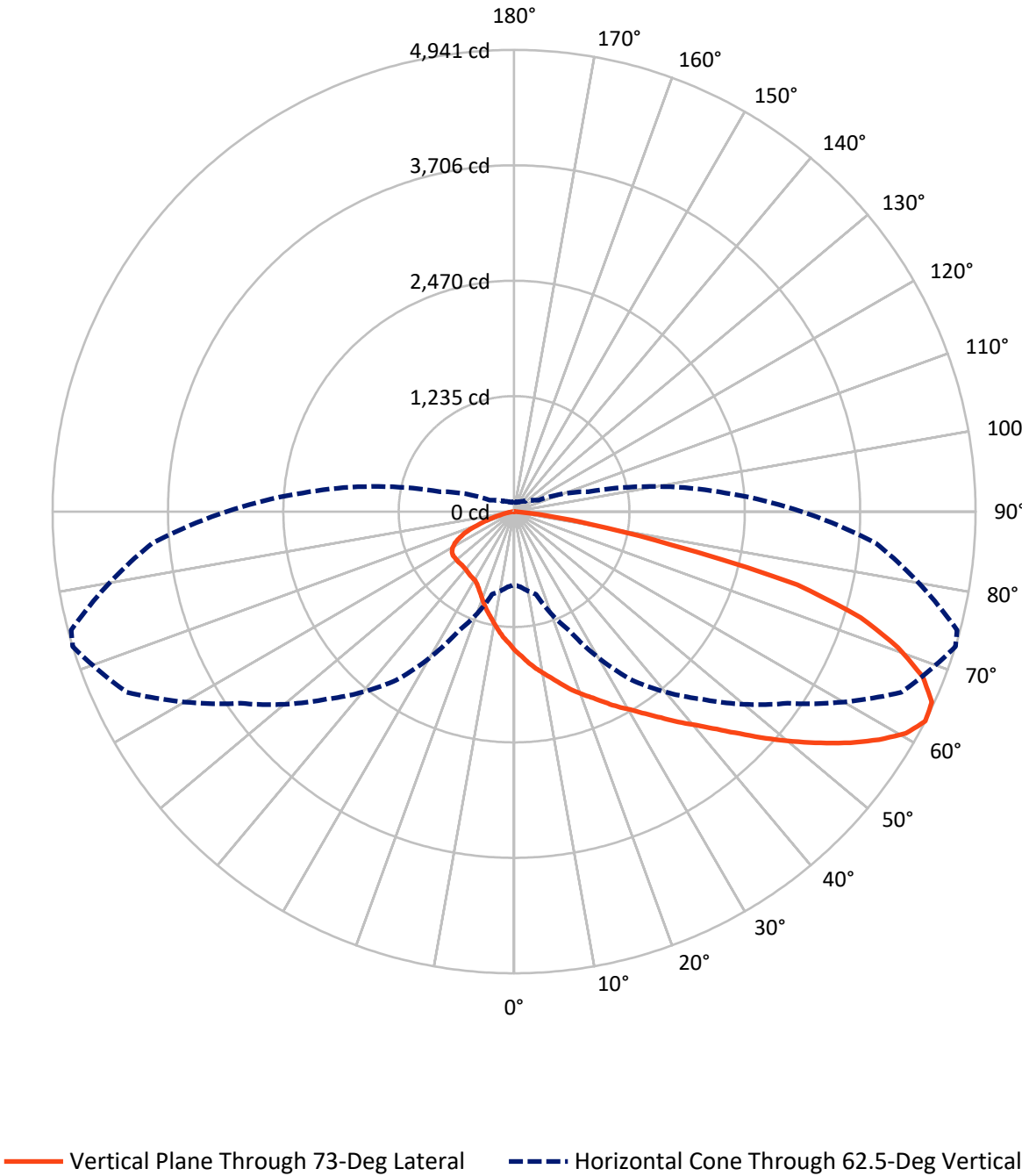
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1217.9	0.0	1217.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6639.1	0.0	6639.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7857.0	0.0	7857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.7	1.8
10°-20°	433.7	5.5
20°-30°	721.9	9.2
30°-40°	1089.2	13.9
40°-50°	1522.5	19.4
50°-60°	1681.7	21.4
60°-70°	1464.9	18.6
70°-80°	740.0	9.4
80°-90°	59.4	0.8
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°	7857.0	100.0
0°-180°	7857.0	100.0

Coefficient of Utilization



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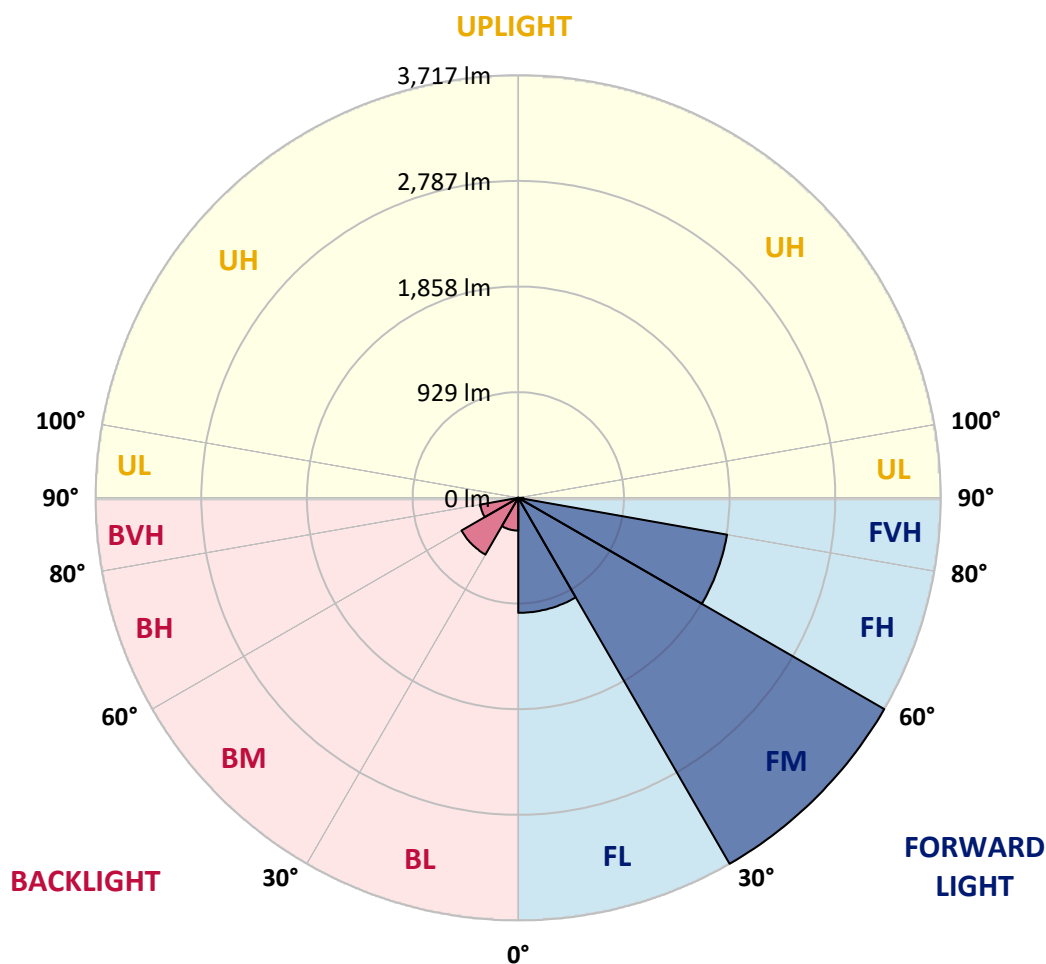
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1011.4	12.9			
FM	(30°-60°)	3716.6	47.3			
FH	(60°-80°)	1865.0	23.7			G2/5000
FVH	(80°-90°)	46.0	0.6			G1/100
BL	(0°-30°)	287.9	3.7	B1/500		
BM	(30°-60°)	576.7	7.3	B1/1000		
BH	(60°-80°)	339.9	4.3	B1/500		G1/500
BVH	(80°-90°)	13.4	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1693.2	1712.0	1701.7	1708.6	1674.3	1652.1	1626.4	1576.8	1549.4	1545.9	1513.4
5°	1941.4	1962.0	1944.8	1939.7	1879.8	1828.4	1770.2	1682.9	1624.7	1614.4	1542.5
7.5°	2189.7	2208.5	2188.0	2172.5	2092.1	2001.3	1915.7	1787.3	1696.6	1679.5	1566.5
10°	2364.3	2381.4	2366.0	2350.6	2266.7	2174.3	2052.7	1884.9	1761.7	1734.3	1581.9
12.5°	2496.1	2506.4	2499.5	2485.8	2407.1	2307.8	2191.4	1994.5	1835.3	1801.0	1605.9
15°	2604.0	2621.1	2612.5	2602.3	2526.9	2427.6	2316.4	2109.2	1920.9	1878.1	1641.8
17.5°	2675.9	2687.9	2689.6	2689.6	2622.8	2525.2	2417.4	2213.6	2006.5	1951.7	1676.1
20°	2708.4	2722.1	2730.7	2744.4	2689.6	2605.7	2496.1	2302.7	2086.9	2025.3	1708.6
22.5°	2723.8	2735.8	2758.1	2788.9	2744.4	2674.2	2573.2	2384.8	2167.4	2102.4	1746.3
25°	2735.8	2751.2	2783.7	2841.9	2811.1	2751.2	2663.9	2479.0	2263.3	2196.5	1801.0
27.5°	2768.3	2787.2	2818.0	2888.2	2850.5	2821.4	2759.8	2580.0	2364.3	2295.8	1867.8
30°	2881.3	2896.7	2895.0	2939.5	2893.3	2884.7	2841.9	2677.6	2461.9	2393.4	1946.6
32.5°	3086.8	3102.2	3064.5	3047.4	2946.4	2948.1	2931.0	2782.0	2578.3	2508.1	2037.3
35°	3307.6	3324.7	3275.1	3246.0	3076.5	3026.8	3035.4	2912.1	2708.4	2638.2	2150.3
37.5°	3504.5	3525.0	3482.2	3439.4	3268.2	3153.5	3151.8	3057.7	2857.4	2785.4	2275.3
40°	3612.3	3636.3	3662.0	3638.0	3458.3	3331.6	3276.8	3206.6	3004.6	2931.0	2410.5
42.5°	3663.7	3730.5	3776.7	3761.3	3614.1	3485.7	3420.6	3362.4	3184.3	3112.4	2571.4
45°	3519.9	3521.6	3619.2	3703.1	3675.7	3590.1	3578.1	3537.0	3389.8	3321.3	2752.9
47.5°	3340.1	3326.4	3394.9	3543.9	3620.9	3643.2	3713.4	3730.5	3624.3	3555.9	2937.8
50°	2908.7	2917.3	3139.8	3353.8	3504.5	3648.3	3809.2	3929.1	3865.7	3800.7	3133.0
52.5°	2366.0	2386.5	2641.6	3112.4	3350.4	3596.9	3865.7	4127.7	4112.3	4050.6	3328.2
55°	1896.9	1929.4	2199.9	2710.1	3153.5	3482.2	3889.7	4309.1	4367.3	4310.8	3519.9
57.5°	1450.1	1484.3	1712.0	2235.9	2901.9	3295.6	3872.6	4468.4	4605.3	4569.4	3696.2
60°	1092.3	1126.5	1272.0	1813.0	2586.9	3086.8	3787.0	4572.8	4819.3	4781.7	3824.6
62.5°	782.4	809.8	917.6	1410.7	2203.4	2838.5	3576.4	4574.5	4940.9	4910.1	3886.3
65°	563.3	563.3	650.6	1006.7	1843.8	2540.6	3258.0	4363.9	4915.2	4906.6	3843.5
67.5°	405.7	409.2	479.4	703.6	1470.6	2179.4	2845.4	3989.0	4716.6	4759.4	3689.4
70°	287.6	296.2	328.7	491.3	1111.1	1720.6	2403.7	3497.6	4358.8	4434.1	3391.5
72.5°	222.6	227.7	250.0	342.4	811.5	1278.9	1915.7	2949.8	3881.1	3966.7	2985.8
75°	171.2	176.3	193.5	251.7	582.1	897.1	1361.1	2289.0	3129.6	3281.9	2398.5
77.5°	125.0	131.8	143.8	183.2	339.0	570.1	825.2	1287.4	1727.4	1799.3	1256.6
80°	58.2	66.8	83.9	118.1	183.2	268.8	292.8	496.5	830.3	868.0	681.4
82.5°	32.5	41.1	47.9	71.9	92.4	95.9	99.3	125.0	313.3	345.8	285.9
85°	15.4	20.5	22.3	30.8	30.8	27.4	32.5	24.0	51.4	61.6	59.9
87.5°	0.0	1.7	3.4	8.6	6.8	5.1	5.1	5.1	5.1	6.8	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°	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7	1487.7
2.5°	1498.0	1475.8	1424.4	1379.9	1350.8	1325.1	1290.9	1275.4	1248.1	1253.2	1237.8
5°	1506.6	1465.5	1374.7	1290.9	1229.2	1174.4	1114.5	1080.3	1042.6	1039.2	1027.2
7.5°	1511.7	1448.4	1318.3	1200.1	1106.0	1022.1	941.6	897.1	850.9	840.6	830.3
10°	1506.6	1422.7	1260.0	1106.0	981.0	876.6	785.8	729.3	681.4	669.4	659.1
12.5°	1511.7	1409.0	1205.3	1018.6	869.7	751.6	648.9	590.6	546.1	534.1	527.3
15°	1523.7	1400.4	1159.0	939.9	770.4	638.6	537.6	487.9	452.0	440.0	436.6
17.5°	1534.0	1391.9	1109.4	862.9	671.1	539.3	452.0	410.9	380.1	368.1	364.7
20°	1547.7	1379.9	1059.7	789.2	583.8	460.5	383.5	347.5	323.6	315.0	313.3
22.5°	1559.6	1371.3	1013.5	715.6	503.3	397.2	332.1	303.0	285.9	277.3	277.3
25°	1590.5	1374.7	974.1	647.1	443.4	347.5	292.8	270.5	256.8	251.7	251.7
27.5°	1626.4	1388.4	943.3	588.9	392.1	309.9	265.4	246.5	239.7	232.8	234.5
30°	1677.8	1415.8	922.8	541.0	354.4	280.8	243.1	229.4	222.6	220.8	220.8
32.5°	1742.8	1460.3	921.1	510.2	327.0	258.5	227.7	215.7	212.3	210.6	210.6
35°	1819.9	1499.7	910.8	496.5	309.9	243.1	215.7	207.2	205.4	205.4	205.4
37.5°	1912.3	1564.8	903.9	477.7	301.3	234.5	207.2	200.3	200.3	200.3	200.3
40°	2008.2	1617.9	893.7	460.5	297.9	229.4	202.0	193.5	193.5	193.5	193.5
42.5°	2122.9	1694.9	890.2	452.0	292.8	226.0	195.2	184.9	186.6	186.6	188.3
45°	2261.6	1782.2	888.5	443.4	291.0	222.6	188.3	176.3	178.0	176.3	176.3
47.5°	2402.0	1883.2	893.7	438.3	289.3	219.1	183.2	167.8	167.8	166.1	166.1
50°	2549.2	1975.7	897.1	433.1	285.9	212.3	174.6	160.9	157.5	154.1	155.8
52.5°	2687.9	2061.3	898.8	424.6	275.6	202.0	167.8	152.4	147.2	142.1	143.8
55°	2826.5	2143.4	902.2	414.3	261.9	191.7	159.2	143.8	137.0	130.1	130.1
57.5°	2951.5	2215.3	893.7	388.6	246.5	181.5	150.7	133.5	123.3	116.4	116.4
60°	3037.1	2266.7	868.0	351.0	226.0	169.5	142.1	123.3	111.3	106.1	106.1
62.5°	3078.2	2275.3	821.8	289.3	200.3	157.5	131.8	113.0	102.7	99.3	99.3
65°	3038.8	2237.6	749.9	217.4	172.9	143.8	121.6	104.4	94.2	85.6	85.6
67.5°	2901.9	2131.5	650.6	164.4	147.2	130.1	111.3	95.9	83.9	77.0	77.0
70°	2626.2	1910.6	503.3	131.8	125.0	113.0	101.0	85.6	75.3	66.8	66.8
72.5°	2265.0	1619.6	354.4	106.1	106.1	95.9	85.6	75.3	65.1	58.2	58.2
75°	1737.7	1198.4	238.0	85.6	87.3	80.5	70.2	61.6	54.8	49.6	49.6
77.5°	948.5	592.4	145.5	63.3	65.1	61.6	54.8	49.6	46.2	41.1	41.1
80°	460.5	260.2	83.9	44.5	46.2	44.5	41.1	36.0	36.0	32.5	32.5
82.5°	193.5	97.6	44.5	30.8	30.8	27.4	25.7	25.7	25.7	24.0	24.0
85°	47.9	18.8	18.8	17.1	17.1	17.1	15.4	15.4	15.4	12.0	13.7
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	5.1	1.7	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)