

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: P840879

Luminaire Tested: **ARCH4-100-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

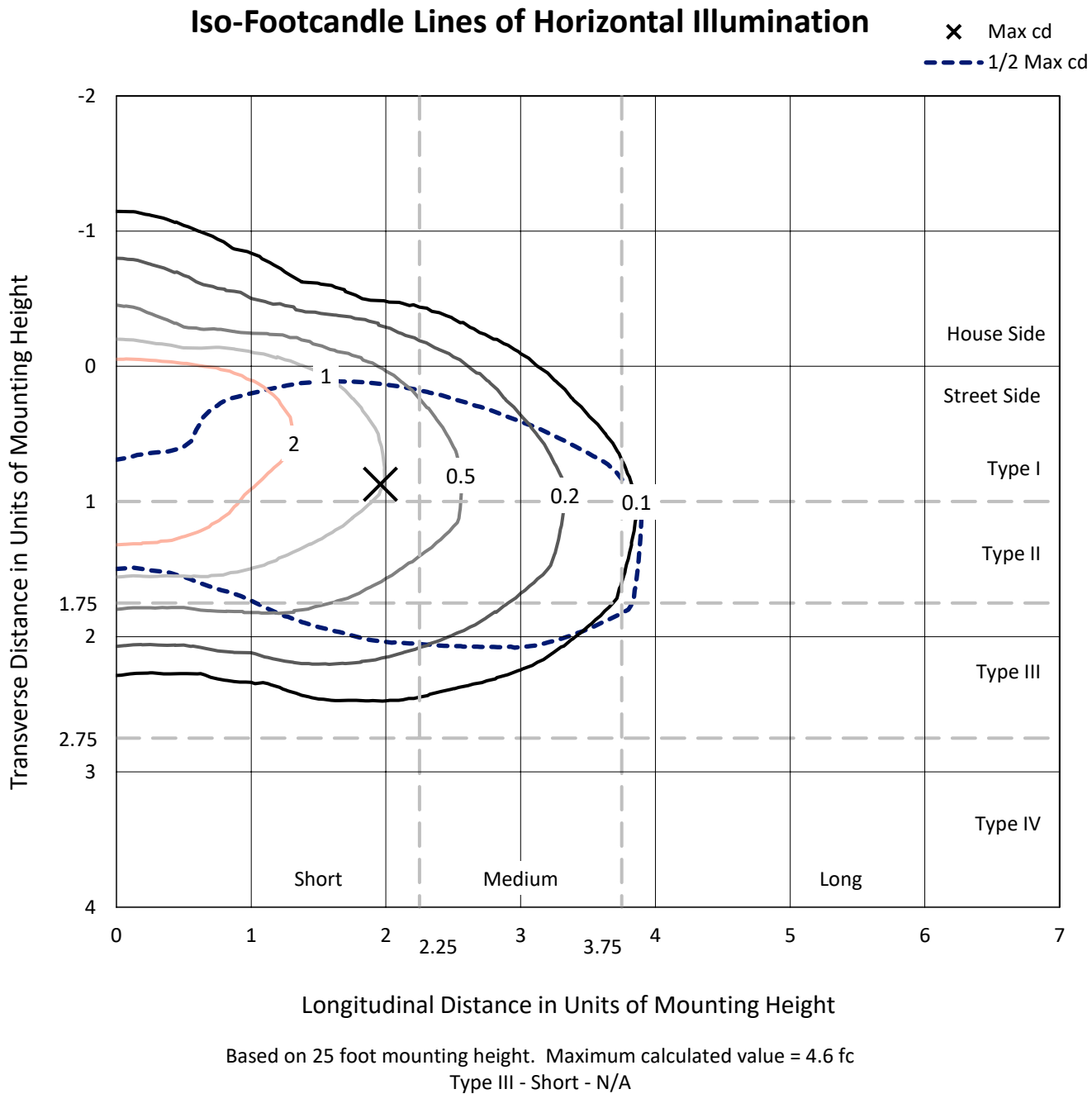
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11904 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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

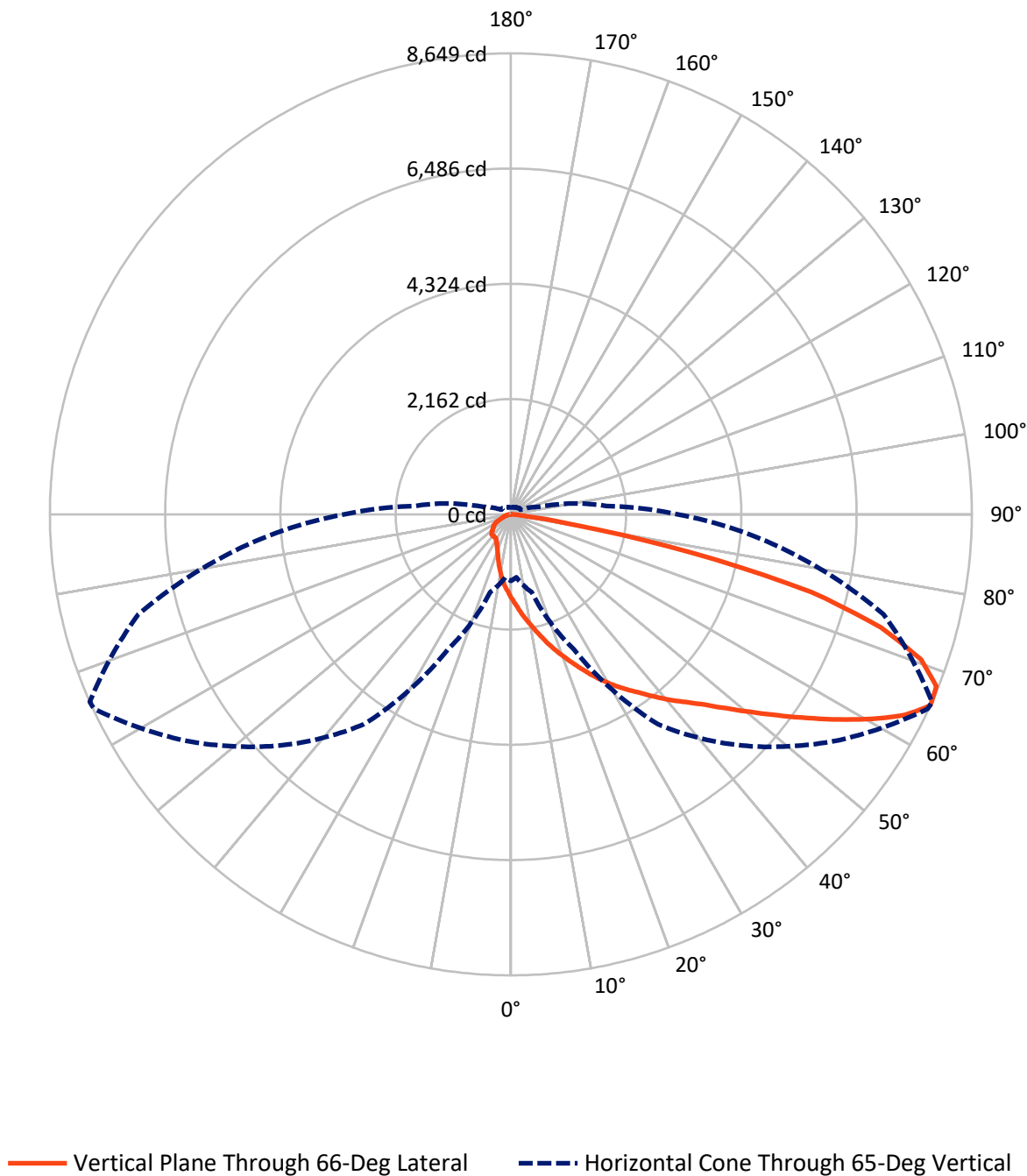


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.1	0.0	1259.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10644.9	0.0	10644.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	11904.0	0.0	11904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.3
10°-20°	506.8	4.3
20°-30°	917.0	7.7
30°-40°	1433.9	12.0
40°-50°	2175.2	18.3
50°-60°	2763.7	23.2
60°-70°	2582.4	21.7
70°-80°	1283.4	10.8
80°-90°	86.2	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°	11904.0	100.0
0°-180°	11904.0	100.0

Coefficient of Utilization



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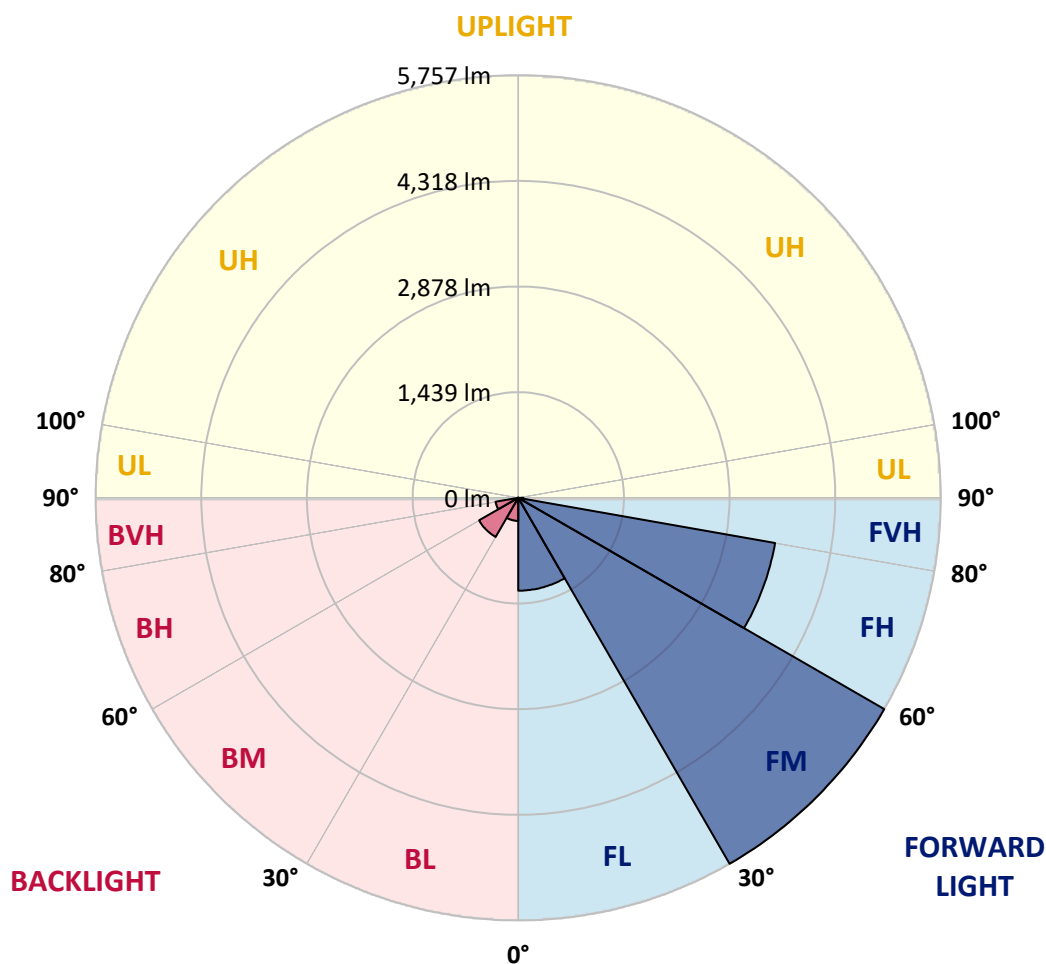
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1264.8	10.6			
FM	(30°-60°)	5756.9	48.4			
FH	(60°-80°)	3552.2	29.8			G2/5000
FVH	(80°-90°)	71.0	0.6			G1/100
BL	(0°-30°)	314.5	2.6	B1/500		
BM	(30°-60°)	615.8	5.2	B1/1000		
BH	(60°-80°)	313.6	2.6	B1/500		G1/500
BVH	(80°-90°)	15.3	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4
2.5°	1840.1	1855.1	1862.6	1865.0	1807.6	1782.7	1757.7	1700.3	1687.8	1655.3	1612.9
5°	2164.7	2184.6	2179.6	2169.6	2099.7	2019.8	1954.9	1847.6	1830.1	1752.7	1657.8
7.5°	2484.2	2501.7	2496.7	2459.3	2381.9	2269.5	2162.2	2004.9	1979.9	1855.1	1702.8
10°	2751.4	2766.4	2763.9	2726.4	2634.0	2496.7	2366.9	2157.2	2127.2	1949.9	1740.2
12.5°	2971.1	2991.1	2988.6	2963.6	2881.2	2731.4	2584.1	2331.9	2294.5	2064.8	1792.6
15°	3143.4	3168.3	3168.3	3158.3	3100.9	2976.1	2808.8	2524.2	2479.2	2197.1	1857.6
17.5°	3248.2	3268.2	3285.7	3303.2	3263.2	3168.3	3016.0	2716.4	2669.0	2326.9	1925.0
20°	3303.2	3323.1	3335.6	3373.1	3380.6	3333.1	3213.3	2906.2	2856.2	2474.2	2002.4
22.5°	3393.0	3410.5	3413.0	3445.5	3460.5	3472.9	3398.0	3093.4	3053.5	2636.5	2089.8
25°	3542.8	3562.8	3555.3	3570.3	3572.8	3587.8	3580.3	3308.2	3268.2	2821.3	2194.6
27.5°	3735.1	3760.1	3755.1	3740.1	3717.6	3705.1	3737.6	3525.4	3487.9	3006.0	2302.0
30°	3942.3	3972.3	3964.8	3934.8	3874.9	3822.5	3867.4	3730.1	3695.1	3195.8	2421.8
32.5°	4152.0	4187.0	4184.5	4134.6	4032.2	3942.3	4009.7	3922.3	3897.4	3400.5	2551.6
35°	4289.4	4334.3	4329.3	4299.3	4167.0	4089.6	4172.0	4119.6	4102.1	3650.2	2738.9
37.5°	4511.6	4559.0	4516.6	4441.7	4289.4	4249.4	4349.3	4341.8	4329.3	3914.9	2936.1
40°	5050.9	5120.8	5008.4	4701.3	4451.6	4416.7	4559.0	4589.0	4576.5	4177.0	3113.4
42.5°	5615.1	5720.0	5545.2	5120.8	4746.3	4618.9	4788.7	4831.1	4816.2	4401.7	3273.2
45°	5957.2	6002.1	5827.3	5497.8	5268.1	4863.6	5033.4	5103.3	5090.8	4671.4	3477.9
47.5°	6236.8	6219.3	6019.6	5797.4	5839.8	5208.2	5310.5	5447.8	5437.9	4968.5	3702.6
50°	6296.7	6256.8	6176.9	6037.1	6149.4	5557.7	5602.6	5839.8	5829.8	5298.0	3929.8
52.5°	5874.8	5822.3	6039.6	6156.9	6119.5	5812.4	5924.7	6269.3	6264.3	5655.1	4147.0
55°	4821.2	4778.7	5363.0	5969.7	6087.0	5992.1	6281.7	6716.2	6743.6	6034.6	4344.3
57.5°	3792.5	3747.6	4321.8	5500.3	5967.2	6156.9	6698.7	7228.0	7263.0	6446.5	4531.5
60°	3023.5	2956.1	3395.5	4761.2	5742.5	6284.2	7100.7	7789.8	7794.8	6823.5	4646.4
62.5°	2054.8	1979.9	2466.8	3825.0	5365.4	6304.2	7410.3	8274.1	8294.1	7105.7	4666.4
65°	1248.4	1185.9	1515.5	2793.8	4808.7	6134.4	7415.3	8631.2	8648.6	7235.5	4546.5
67.5°	724.0	699.1	866.4	1740.2	3884.9	5677.5	7103.2	8576.2	8608.7	7180.6	4274.4
70°	421.9	419.4	481.9	861.4	2741.4	4771.2	6406.6	8114.3	8161.8	6893.4	3857.4
72.5°	309.6	314.6	339.6	461.9	1587.9	3435.5	5425.4	7185.6	7258.0	6331.7	3263.2
75°	244.7	247.2	269.6	314.6	833.9	1942.4	4064.7	5767.4	5824.8	5330.5	2549.1
77.5°	182.3	187.3	204.7	222.2	387.0	891.3	2287.0	3552.8	3458.0	2926.2	1230.9
80°	132.3	144.8	152.3	159.8	204.7	344.5	686.6	1238.4	1228.4	1278.3	581.7
82.5°	84.9	94.9	102.4	107.4	122.3	164.8	204.7	277.1	299.6	496.8	232.2
85°	37.5	42.4	47.4	57.4	52.4	57.4	84.9	54.9	47.4	74.9	42.4
87.5°	0.0	0.0	7.5	12.5	10.0	5.0	15.0	10.0	7.5	7.5	7.5
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°	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4	1575.4
2.5°	1590.4	1562.9	1505.5	1450.6	1418.1	1375.7	1338.2	1303.3	1300.8	1290.8	1273.3
5°	1610.4	1558.0	1450.6	1348.2	1270.8	1188.4	1118.5	1063.6	1043.6	1028.6	1008.7
7.5°	1630.4	1548.0	1388.2	1238.4	1116.0	1001.2	918.8	843.9	821.4	801.4	789.0
10°	1637.8	1530.5	1315.8	1116.0	956.2	833.9	746.5	691.6	671.6	661.6	654.1
12.5°	1660.3	1520.5	1248.4	1001.2	816.4	704.1	641.7	609.2	601.7	594.2	586.7
15°	1690.3	1520.5	1180.9	888.8	706.6	616.7	579.2	556.8	551.8	549.3	544.3
17.5°	1722.7	1520.5	1116.0	794.0	626.7	559.3	531.8	519.3	516.8	514.3	511.8
20°	1767.7	1523.0	1046.1	711.6	569.3	516.8	494.4	479.4	476.9	474.4	474.4
22.5°	1812.6	1528.0	978.7	649.1	531.8	484.4	456.9	441.9	436.9	436.9	436.9
25°	1870.0	1543.0	916.3	596.7	499.3	454.4	419.4	407.0	404.5	404.5	402.0
27.5°	1937.5	1560.4	861.4	556.8	466.9	419.4	384.5	372.0	367.0	367.0	364.5
30°	2009.9	1577.9	816.4	526.8	434.4	384.5	352.0	337.1	332.1	334.6	332.1
32.5°	2089.8	1602.9	781.5	506.8	404.5	354.5	324.6	307.1	304.6	304.6	302.1
35°	2224.6	1672.8	776.5	496.8	379.5	332.1	302.1	284.6	282.1	282.1	279.6
37.5°	2369.4	1752.7	798.9	491.9	359.5	312.1	284.6	267.1	264.7	264.7	264.7
40°	2491.7	1812.6	823.9	491.9	347.0	294.6	269.6	254.7	254.7	254.7	254.7
42.5°	2574.1	1817.6	818.9	491.9	337.1	282.1	259.7	244.7	244.7	247.2	244.7
45°	2696.5	1842.6	798.9	484.4	329.6	272.1	249.7	237.2	234.7	237.2	237.2
47.5°	2841.3	1887.5	779.0	454.4	327.1	262.2	242.2	227.2	224.7	227.2	224.7
50°	2978.6	1927.5	769.0	414.5	322.1	252.2	232.2	217.2	214.7	217.2	214.7
52.5°	3093.4	1944.9	751.5	387.0	309.6	242.2	222.2	207.2	202.2	204.7	204.7
55°	3185.8	1939.9	726.5	364.5	287.1	232.2	209.7	197.2	189.8	189.8	187.3
57.5°	3270.7	1942.4	704.1	342.1	262.2	217.2	199.7	184.8	174.8	172.3	169.8
60°	3303.2	1930.0	664.1	312.1	237.2	204.7	187.3	169.8	159.8	157.3	154.8
62.5°	3258.2	1885.0	611.7	259.7	214.7	189.8	174.8	157.3	147.3	144.8	142.3
65°	3130.9	1800.1	531.8	204.7	194.7	172.3	159.8	147.3	134.8	129.8	127.3
67.5°	2913.7	1677.8	431.9	164.8	172.3	157.3	149.8	134.8	119.8	114.8	112.4
70°	2604.1	1515.5	324.6	139.8	152.3	139.8	134.8	119.8	107.4	102.4	99.9
72.5°	2169.6	1253.4	227.2	119.8	132.3	122.3	117.3	107.4	94.9	87.4	87.4
75°	1640.3	898.8	149.8	102.4	109.9	104.9	97.4	89.9	82.4	77.4	74.9
77.5°	706.6	349.5	92.4	77.4	89.9	87.4	77.4	72.4	69.9	64.9	64.9
80°	304.6	142.3	57.4	57.4	64.9	62.4	59.9	54.9	54.9	52.4	49.9
82.5°	112.4	57.4	35.0	42.4	47.4	42.4	42.4	42.4	42.4	39.9	39.9
85°	27.5	17.5	17.5	25.0	27.5	25.0	27.5	25.0	25.0	25.0	22.5
87.5°	7.5	7.5	10.0	10.0	10.0	10.0	10.0	7.5	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)