

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: P842742

Luminaire Tested: **ARCH4-90-727-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842742
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: ARCH4-90-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

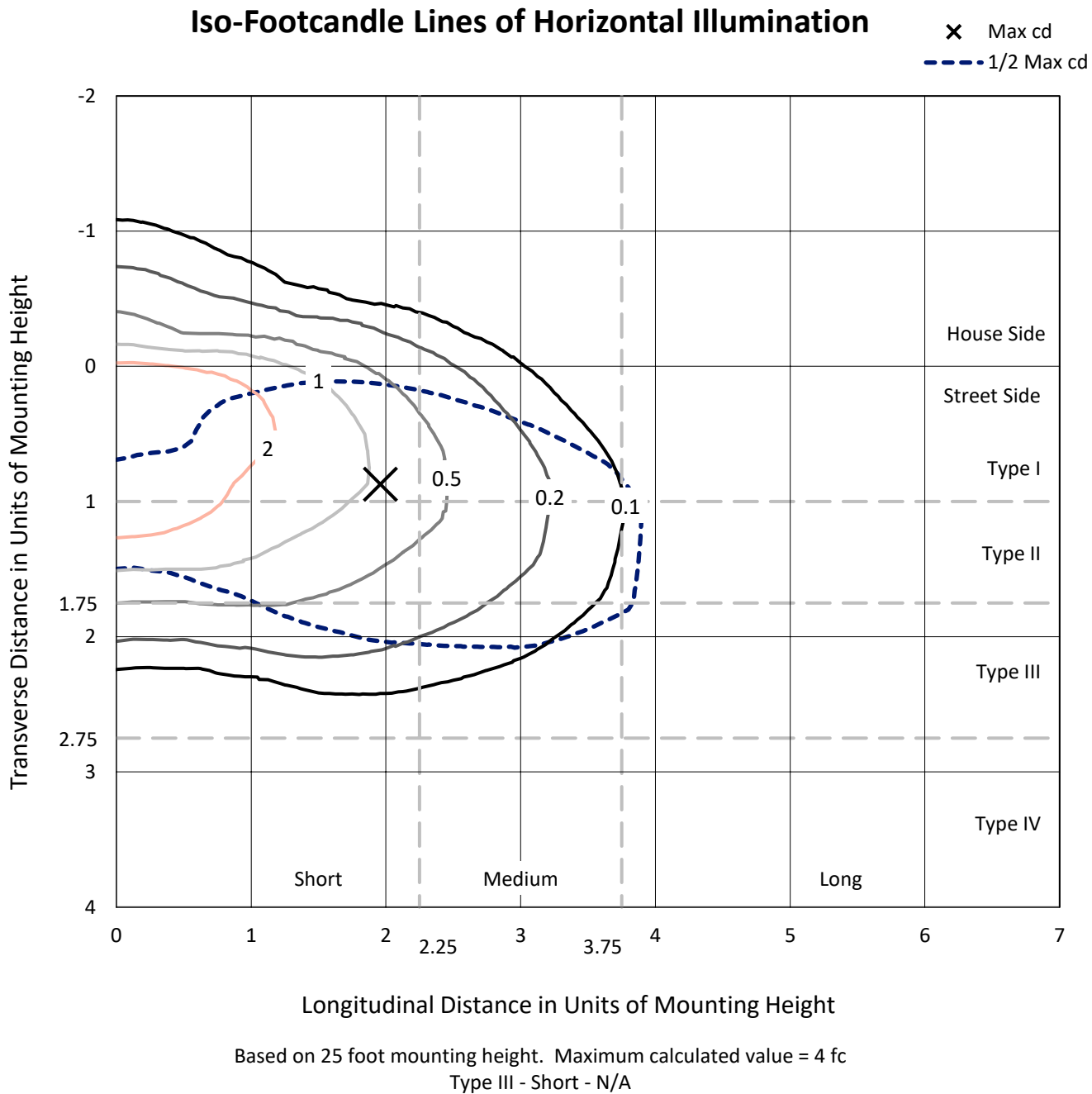
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10473 lumens
Efficiency: N/A
Efficacy: 112.5 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): 93.1
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



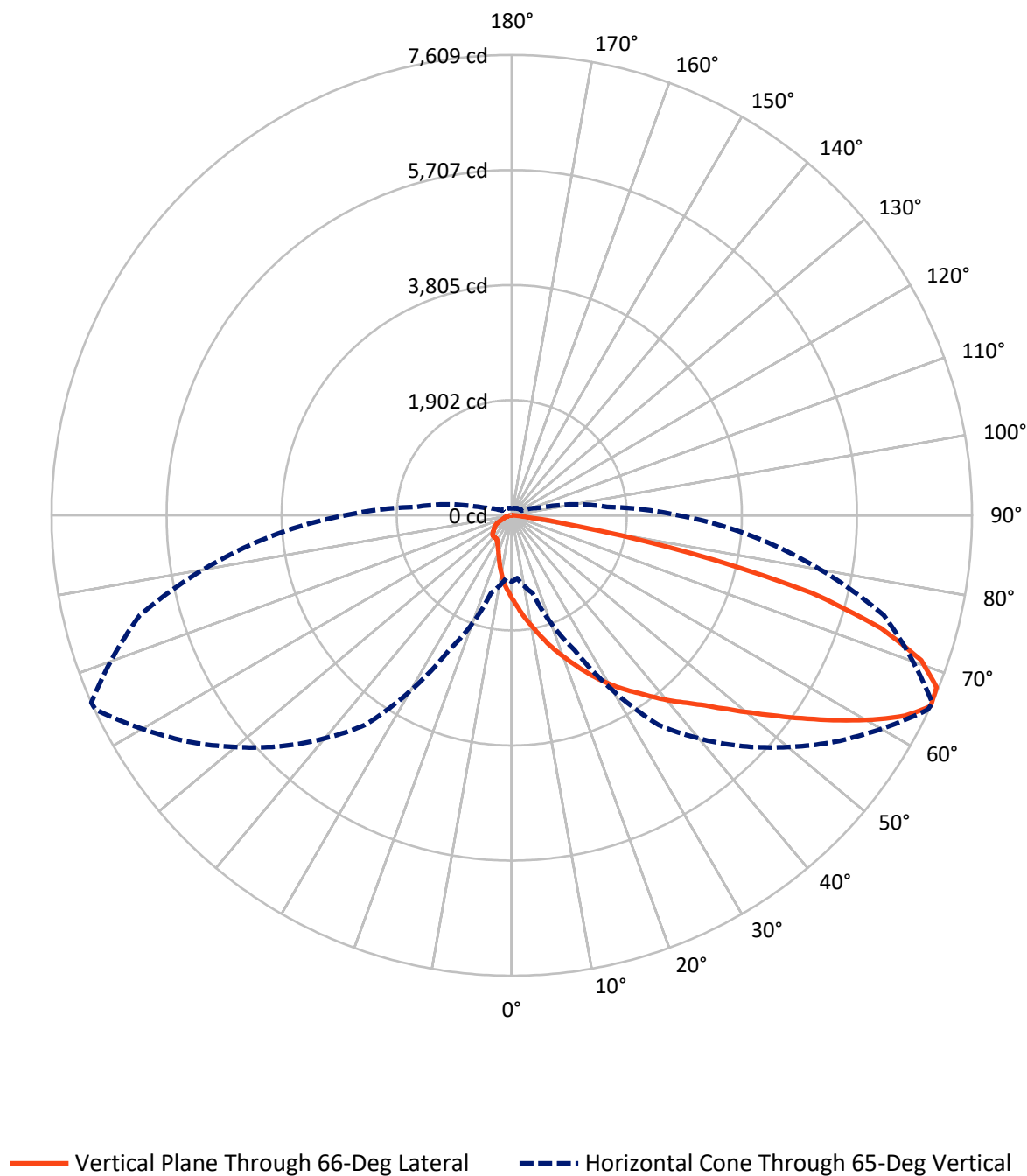
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1107.8	0.0	1107.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	9365.2	0.0	9365.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	10473.0	0.0	10473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.3
10°-20°	445.9	4.3
20°-30°	806.7	7.7
30°-40°	1261.5	12.0
40°-50°	1913.7	18.3
50°-60°	2431.4	23.2
60°-70°	2271.9	21.7
70°-80°	1129.1	10.8
80°-90°	75.9	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°	10473.0	100.0
0°-180°	10473.0	100.0

Coefficient of Utilization



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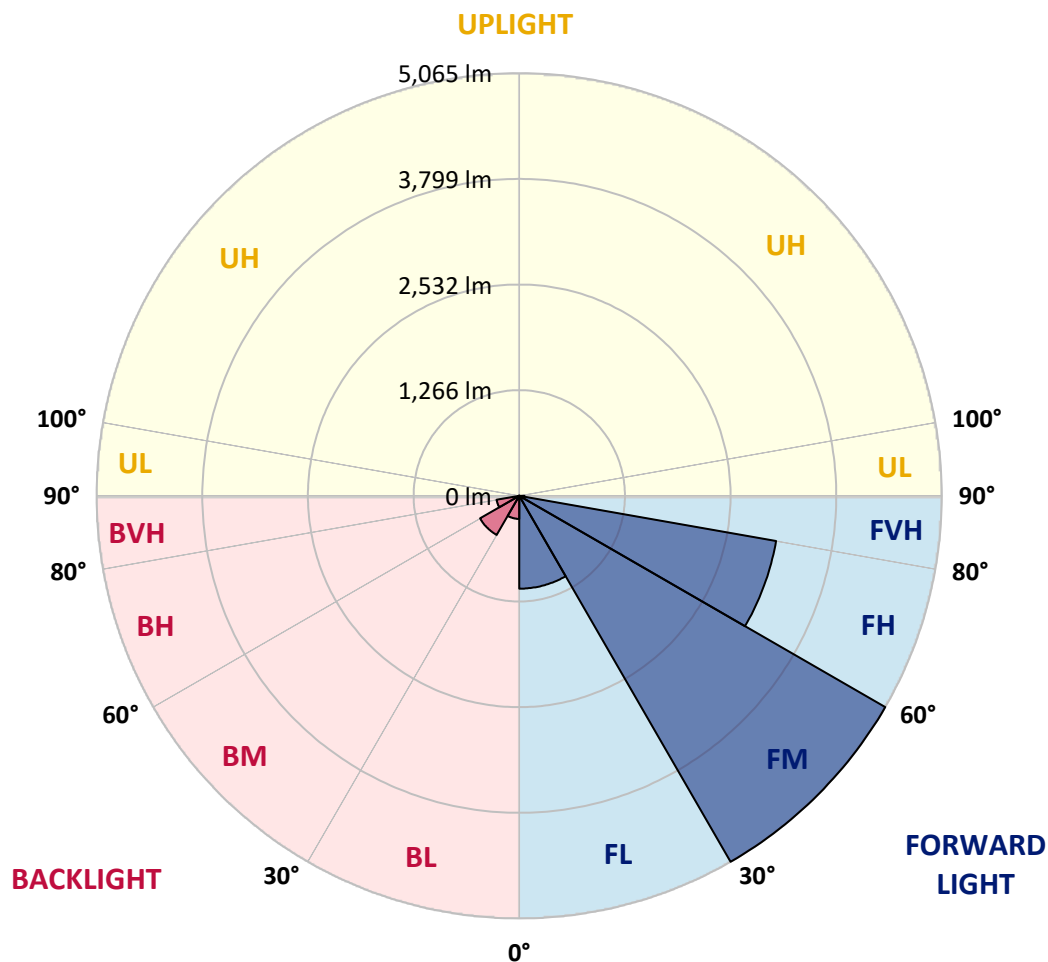
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1112.8	10.6			
FM	(30°-60°)	5064.9	48.4			
FH	(60°-80°)	3125.2	29.8			G2/5000
FVH	(80°-90°)	62.4	0.6			G1/100
BL	(0°-30°)	276.7	2.6	B1/500		
BM	(30°-60°)	541.8	5.2	B1/1000		
BH	(60°-80°)	275.9	2.6	B1/500		G1/500
BVH	(80°-90°)	13.4	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°	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1618.9	1632.1	1638.7	1640.8	1590.3	1568.4	1546.4	1495.9	1484.9	1456.3	1419.0
5°	1904.4	1922.0	1917.6	1908.8	1847.3	1777.0	1719.9	1625.5	1610.1	1542.0	1458.5
7.5°	2185.6	2201.0	2196.6	2163.6	2095.5	1996.7	1902.2	1763.9	1741.9	1632.1	1498.1
10°	2420.6	2433.8	2431.6	2398.7	2317.4	2196.6	2082.4	1897.8	1871.5	1715.5	1531.0
12.5°	2613.9	2631.5	2629.3	2607.3	2534.9	2403.1	2273.5	2051.6	2018.7	1816.6	1577.1
15°	2765.5	2787.5	2787.5	2778.7	2728.2	2618.3	2471.2	2220.7	2181.2	1933.0	1634.3
17.5°	2857.8	2875.3	2890.7	2906.1	2870.9	2787.5	2653.5	2389.9	2348.1	2047.2	1693.6
20°	2906.1	2923.7	2934.6	2967.6	2974.2	2932.4	2827.0	2556.8	2512.9	2176.8	1761.7
22.5°	2985.2	3000.5	3002.7	3031.3	3044.5	3055.4	2989.5	2721.6	2686.4	2319.6	1838.5
25°	3117.0	3134.5	3127.9	3141.1	3143.3	3156.5	3149.9	2910.5	2875.3	2482.1	1930.8
27.5°	3286.1	3308.1	3303.7	3290.5	3270.7	3259.7	3288.3	3101.6	3068.6	2644.7	2025.2
30°	3468.4	3494.8	3488.2	3461.8	3409.1	3363.0	3402.5	3281.7	3250.9	2811.6	2130.7
32.5°	3652.9	3683.7	3681.5	3637.5	3547.5	3468.4	3527.7	3450.8	3428.9	2991.7	2244.9
35°	3773.7	3813.3	3808.9	3782.5	3666.1	3598.0	3670.5	3624.4	3609.0	3211.4	2409.7
37.5°	3969.2	4011.0	3973.6	3907.7	3773.7	3738.6	3826.4	3819.9	3808.9	3444.2	2583.2
40°	4443.7	4505.2	4406.3	4136.2	3916.5	3885.8	4011.0	4037.3	4026.3	3674.9	2739.1
42.5°	4940.1	5032.4	4878.6	4505.2	4175.7	4063.7	4213.0	4250.4	4237.2	3872.6	2879.7
45°	5241.0	5280.6	5126.8	4836.9	4634.8	4278.9	4428.3	4489.8	4478.8	4109.8	3059.8
47.5°	5487.1	5471.7	5296.0	5100.5	5137.8	4582.1	4672.1	4792.9	4784.2	4371.2	3257.5
50°	5539.8	5504.6	5434.3	5311.3	5410.2	4889.6	4929.1	5137.8	5129.0	4661.1	3457.4
52.5°	5168.6	5122.4	5313.5	5416.8	5383.8	5113.6	5212.5	5515.6	5511.2	4975.3	3648.5
55°	4241.6	4204.3	4718.3	5252.0	5355.3	5271.8	5526.6	5908.8	5933.0	5309.1	3822.1
57.5°	3336.6	3297.1	3802.3	4839.1	5249.8	5416.8	5893.4	6359.1	6389.9	5671.6	3986.8
60°	2660.1	2600.8	2987.4	4188.9	5052.1	5528.8	6247.1	6853.3	6857.7	6003.3	4087.8
62.5°	1807.8	1741.9	2170.2	3365.2	4720.5	5546.4	6519.5	7279.5	7297.0	6251.5	4105.4
65°	1098.3	1043.4	1333.3	2458.0	4230.6	5397.0	6523.9	7593.6	7609.0	6365.7	4000.0
67.5°	637.0	615.0	762.2	1531.0	3417.9	4995.0	6249.3	7545.3	7573.8	6317.4	3760.6
70°	371.2	369.0	423.9	757.8	2411.8	4197.7	5636.4	7138.9	7180.6	6064.8	3393.7
72.5°	272.4	276.8	298.7	406.4	1397.0	3022.5	4773.2	6321.8	6385.5	5570.5	2870.9
75°	215.3	217.5	237.2	276.8	733.7	1708.9	3576.0	5074.1	5124.6	4689.7	2242.7
77.5°	160.4	164.7	180.1	195.5	340.5	784.2	2012.1	3125.7	3042.3	2574.4	1082.9
80°	116.4	127.4	134.0	140.6	180.1	303.1	604.1	1089.5	1080.7	1124.7	511.8
82.5°	74.7	83.5	90.1	94.5	107.6	145.0	180.1	243.8	263.6	437.1	204.3
85°	32.9	37.3	41.7	50.5	46.1	50.5	74.7	48.3	41.7	65.9	37.3
87.5°	0.0	0.0	6.6	11.0	8.8	4.4	13.2	8.8	6.6	6.6	6.6
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°	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1399.2	1375.1	1324.5	1276.2	1247.7	1210.3	1177.4	1146.6	1144.4	1135.6	1120.3
5°	1416.8	1370.7	1276.2	1186.2	1118.1	1045.6	984.1	935.7	918.2	905.0	887.4
7.5°	1434.4	1361.9	1221.3	1089.5	981.9	880.8	808.3	742.4	722.7	705.1	694.1
10°	1441.0	1346.5	1157.6	981.9	841.3	733.7	656.8	608.5	590.9	582.1	575.5
12.5°	1460.7	1337.7	1098.3	880.8	718.3	619.4	564.5	536.0	529.4	522.8	516.2
15°	1487.1	1337.7	1039.0	782.0	621.6	542.6	509.6	489.8	485.4	483.2	478.9
17.5°	1515.6	1337.7	981.9	698.5	551.3	492.0	467.9	456.9	454.7	452.5	450.3
20°	1555.2	1339.9	920.4	626.0	500.8	454.7	434.9	421.7	419.5	417.4	417.4
22.5°	1594.7	1344.3	861.1	571.1	467.9	426.1	402.0	388.8	384.4	384.4	384.4
25°	1645.2	1357.5	806.1	525.0	439.3	399.8	369.0	358.0	355.8	355.8	353.6
27.5°	1704.5	1372.9	757.8	489.8	410.8	369.0	338.3	327.3	322.9	322.9	320.7
30°	1768.2	1388.2	718.3	463.5	382.2	338.3	309.7	296.5	292.1	294.3	292.1
32.5°	1838.5	1410.2	687.5	445.9	355.8	311.9	285.6	270.2	268.0	268.0	265.8
35°	1957.2	1471.7	683.1	437.1	333.9	292.1	265.8	250.4	248.2	248.2	246.0
37.5°	2084.6	1542.0	702.9	432.7	316.3	274.6	250.4	235.0	232.8	232.8	232.8
40°	2192.2	1594.7	724.9	432.7	305.3	259.2	237.2	224.1	224.1	224.1	224.1
42.5°	2264.7	1599.1	720.5	432.7	296.5	248.2	228.4	215.3	215.3	217.5	215.3
45°	2372.3	1621.1	702.9	426.1	289.9	239.4	219.7	208.7	206.5	208.7	208.7
47.5°	2499.7	1660.6	685.3	399.8	287.8	230.6	213.1	199.9	197.7	199.9	197.7
50°	2620.5	1695.8	676.5	364.6	283.4	221.9	204.3	191.1	188.9	191.1	188.9
52.5°	2721.6	1711.1	661.2	340.5	272.4	213.1	195.5	182.3	177.9	180.1	180.1
55°	2802.8	1706.7	639.2	320.7	252.6	204.3	184.5	173.5	166.9	166.9	164.7
57.5°	2877.5	1708.9	619.4	300.9	230.6	191.1	175.7	162.5	153.8	151.6	149.4
60°	2906.1	1698.0	584.3	274.6	208.7	180.1	164.7	149.4	140.6	138.4	136.2
62.5°	2866.5	1658.4	538.2	228.4	188.9	166.9	153.8	138.4	129.6	127.4	125.2
65°	2754.5	1583.7	467.9	180.1	171.3	151.6	140.6	129.6	118.6	114.2	112.0
67.5°	2563.4	1476.1	380.0	145.0	151.6	138.4	131.8	118.6	105.4	101.0	98.8
70°	2291.0	1333.3	285.6	123.0	134.0	123.0	118.6	105.4	94.5	90.1	87.9
72.5°	1908.8	1102.7	199.9	105.4	116.4	107.6	103.2	94.5	83.5	76.9	76.9
75°	1443.2	790.8	131.8	90.1	96.6	92.3	85.7	79.1	72.5	68.1	65.9
77.5°	621.6	307.5	81.3	68.1	79.1	76.9	68.1	63.7	61.5	57.1	57.1
80°	268.0	125.2	50.5	50.5	57.1	54.9	52.7	48.3	48.3	46.1	43.9
82.5°	98.8	50.5	30.8	37.3	41.7	37.3	37.3	37.3	37.3	35.1	35.1
85°	24.2	15.4	15.4	22.0	24.2	22.0	24.2	22.0	22.0	22.0	19.8
87.5°	6.6	6.6	8.8	8.8	8.8	8.8	8.8	6.6	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)