

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: P842589

Luminaire Tested: **ARCH4-70-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842589
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: ARCH4-70-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 605mA 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: 7614 lumens
Efficiency: N/A
Efficacy: 103.2 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): 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



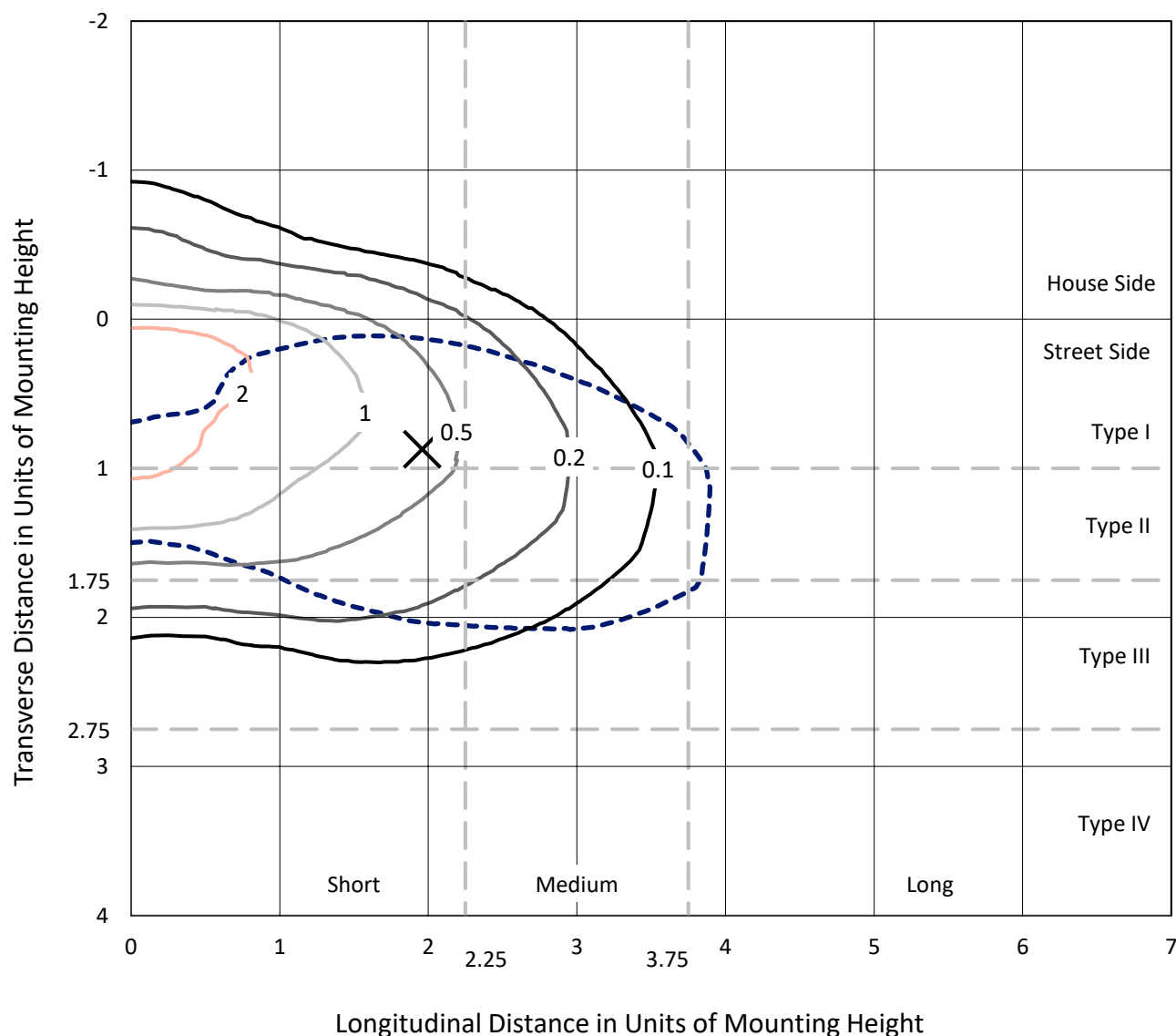
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



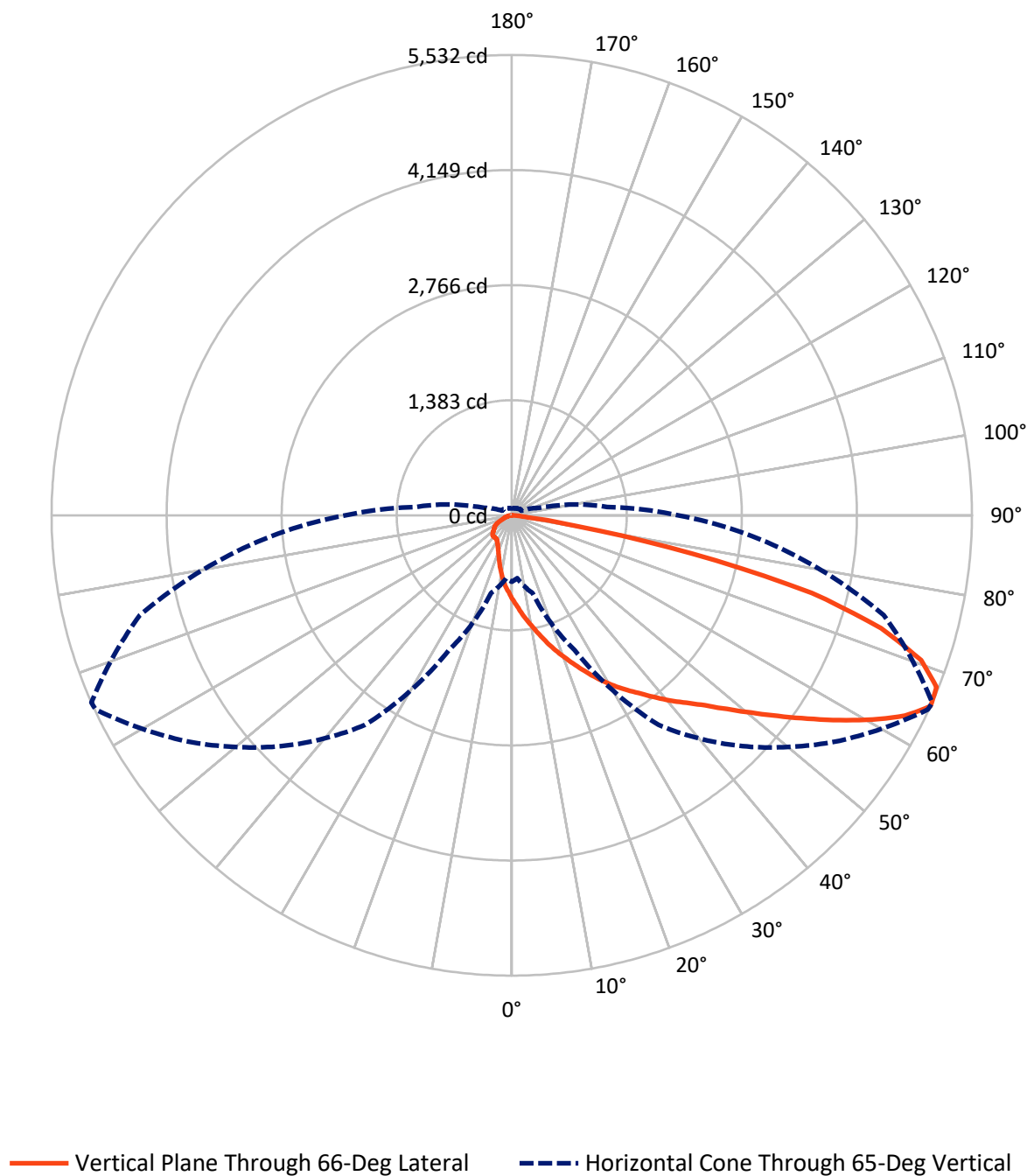
Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	805.4	0.0	805.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	6808.6	0.0	6808.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	7614.0	0.0	7614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	324.2	4.3
20°-30°	586.5	7.7
30°-40°	917.1	12.0
40°-50°	1391.3	18.3
50°-60°	1767.7	23.2
60°-70°	1651.7	21.7
70°-80°	820.9	10.8
80°-90°	55.2	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°	7614.0	100.0
0°-180°	7614.0	100.0

Coefficient of Utilization



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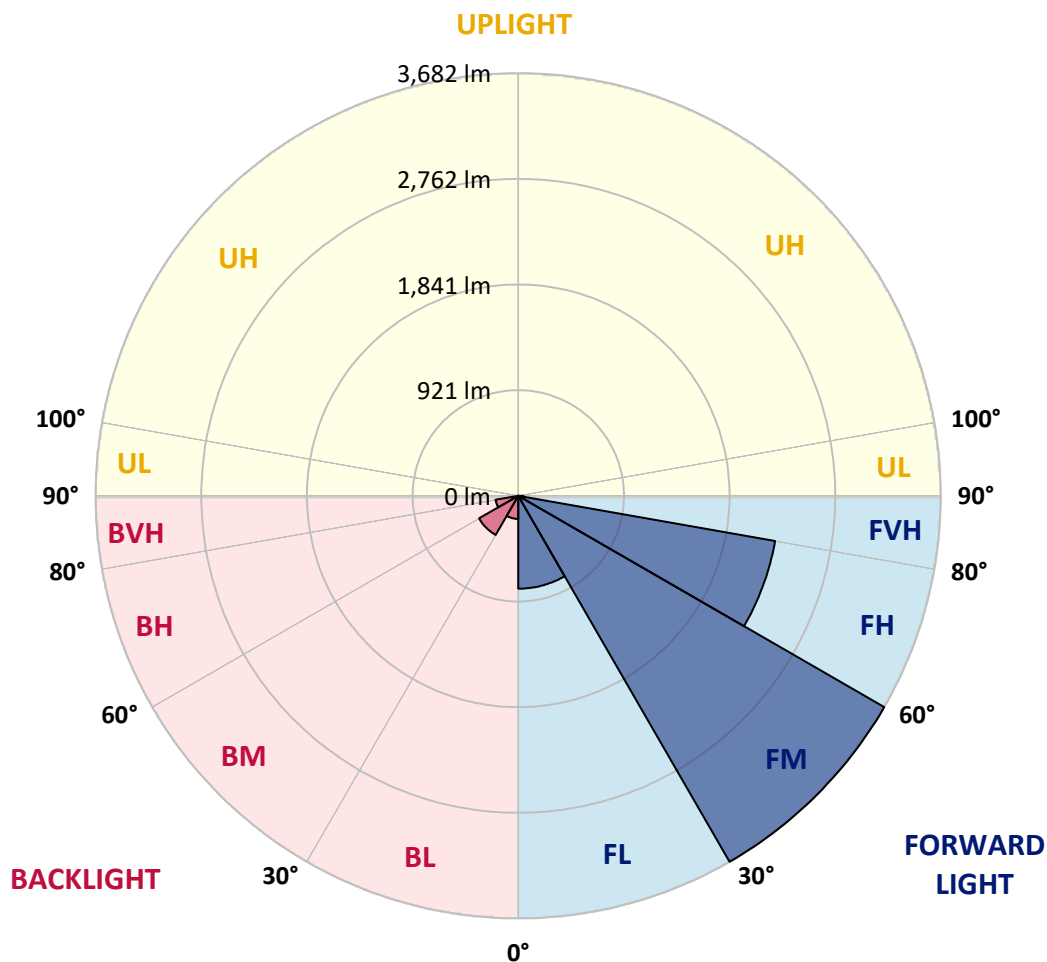
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.0	10.6			
FM	(30°-60°)	3682.2	48.4			
FH	(60°-80°)	2272.0	29.8			G2/5000
FVH	(80°-90°)	45.4	0.6			G1/100
BL	(0°-30°)	201.1	2.6	B1/500		
BM	(30°-60°)	393.9	5.2	B1/1000		
BH	(60°-80°)	200.6	2.6	B1/500		G1/500
BVH	(80°-90°)	9.8	0.1			G0/10
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°	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1176.9	1186.5	1191.3	1192.9	1156.2	1140.2	1124.2	1087.5	1079.5	1058.8	1031.6
5°	1384.5	1397.3	1394.1	1387.7	1343.0	1291.9	1250.4	1181.7	1170.6	1121.1	1060.4
7.5°	1589.0	1600.1	1596.9	1573.0	1523.5	1451.6	1383.0	1282.3	1266.4	1186.5	1089.1
10°	1759.8	1769.4	1767.8	1743.9	1684.8	1596.9	1513.9	1379.8	1360.6	1247.2	1113.1
12.5°	1900.4	1913.1	1911.5	1895.6	1842.9	1747.1	1652.8	1491.5	1467.6	1320.7	1146.6
15°	2010.6	2026.5	2026.5	2020.1	1983.4	1903.6	1796.6	1614.5	1585.8	1405.3	1188.1
17.5°	2077.6	2090.4	2101.6	2112.8	2087.2	2026.5	1929.1	1737.5	1707.1	1488.4	1231.2
20°	2112.8	2125.5	2133.5	2157.5	2162.3	2131.9	2055.3	1858.8	1826.9	1582.6	1280.7
22.5°	2170.2	2181.4	2183.0	2203.8	2213.4	2221.3	2173.4	1978.6	1953.1	1686.4	1336.6
25°	2266.1	2278.8	2274.0	2283.6	2285.2	2294.8	2290.0	2115.9	2090.4	1804.5	1403.7
27.5°	2389.0	2405.0	2401.8	2392.2	2377.8	2369.9	2390.6	2254.9	2230.9	1922.7	1472.4
30°	2521.6	2540.7	2535.9	2516.8	2478.5	2444.9	2473.7	2385.8	2363.5	2044.1	1549.0
32.5°	2655.7	2678.1	2676.5	2644.5	2579.1	2521.6	2564.7	2508.8	2492.8	2175.0	1632.1
35°	2743.5	2772.3	2769.1	2749.9	2665.3	2615.8	2668.5	2635.0	2623.8	2334.7	1751.8
37.5°	2885.7	2916.0	2888.9	2841.0	2743.5	2718.0	2781.9	2777.1	2769.1	2504.0	1878.0
40°	3230.6	3275.3	3203.5	3007.0	2847.3	2825.0	2916.0	2935.2	2927.2	2671.7	1991.4
42.5°	3591.5	3658.6	3546.8	3275.3	3035.8	2954.3	3062.9	3090.1	3080.5	2815.4	2093.6
45°	3810.3	3839.1	3727.3	3516.5	3369.6	3110.8	3219.4	3264.2	3256.2	2987.9	2224.5
47.5°	3989.2	3978.0	3850.2	3708.1	3735.3	3331.2	3396.7	3484.5	3478.1	3177.9	2368.3
50°	4027.5	4001.9	3950.8	3861.4	3933.3	3554.8	3583.5	3735.3	3728.9	3388.7	2513.6
52.5°	3757.6	3724.1	3863.0	3938.1	3914.1	3717.7	3789.5	4009.9	4006.7	3617.1	2652.5
55°	3083.7	3056.5	3430.2	3818.3	3893.3	3832.7	4017.9	4295.8	4313.3	3859.8	2778.7
57.5°	2425.8	2397.0	2764.3	3518.1	3816.7	3938.1	4284.6	4623.2	4645.5	4123.3	2898.5
60°	1933.9	1890.8	2171.8	3045.4	3673.0	4019.5	4541.7	4982.5	4985.7	4364.4	2971.9
62.5°	1314.3	1266.4	1577.8	2446.5	3431.8	4032.3	4739.7	5292.3	5305.0	4544.9	2984.7
65°	798.5	758.5	969.3	1787.0	3075.7	3923.7	4742.9	5520.6	5531.8	4627.9	2908.0
67.5°	463.1	447.1	554.1	1113.1	2484.8	3631.4	4543.3	5485.5	5506.3	4592.8	2734.0
70°	269.9	268.3	308.2	550.9	1753.4	3051.8	4097.8	5190.1	5220.4	4409.2	2467.3
72.5°	198.0	201.2	217.2	295.4	1015.7	2197.4	3470.2	4596.0	4642.3	4049.8	2087.2
75°	156.5	158.1	172.5	201.2	533.4	1242.4	2599.8	3688.9	3725.7	3409.5	1630.5
77.5°	116.6	119.8	130.9	142.1	247.5	570.1	1462.8	2272.5	2211.8	1871.6	787.3
80°	84.6	92.6	97.4	102.2	130.9	220.4	439.2	792.1	785.7	817.6	372.1
82.5°	54.3	60.7	65.5	68.7	78.3	105.4	130.9	177.3	191.6	317.8	148.5
85°	24.0	27.1	30.3	36.7	33.5	36.7	54.3	35.1	30.3	47.9	27.1
87.5°	0.0	0.0	4.8	8.0	6.4	3.2	9.6	6.4	4.8	4.8	4.8
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°	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7	1007.7
2.5°	1017.3	999.7	963.0	927.8	907.1	879.9	856.0	833.6	832.0	825.6	814.4
5°	1030.0	996.5	927.8	862.3	812.8	760.1	715.4	680.3	667.5	657.9	645.2
7.5°	1042.8	990.1	887.9	792.1	713.8	640.4	587.7	539.8	525.4	512.6	504.6
10°	1047.6	978.9	841.6	713.8	611.6	533.4	477.5	442.4	429.6	423.2	418.4
12.5°	1062.0	972.5	798.5	640.4	522.2	450.3	410.4	389.7	384.9	380.1	375.3
15°	1081.1	972.5	755.4	568.5	451.9	394.4	370.5	356.1	352.9	351.3	348.1
17.5°	1101.9	972.5	713.8	507.8	400.8	357.7	340.1	332.2	330.6	329.0	327.4
20°	1130.6	974.1	669.1	455.1	364.1	330.6	316.2	306.6	305.0	303.4	303.4
22.5°	1159.4	977.3	626.0	415.2	340.1	309.8	292.2	282.7	279.5	279.5	279.5
25°	1196.1	986.9	586.1	381.7	319.4	290.6	268.3	260.3	258.7	258.7	257.1
27.5°	1239.2	998.1	550.9	356.1	298.6	268.3	245.9	237.9	234.8	234.8	233.2
30°	1285.5	1009.3	522.2	337.0	277.9	245.9	225.2	215.6	212.4	214.0	212.4
32.5°	1336.6	1025.2	499.8	324.2	258.7	226.8	207.6	196.4	194.8	194.8	193.2
35°	1422.9	1070.0	496.6	317.8	242.7	212.4	193.2	182.1	180.5	180.5	178.9
37.5°	1515.5	1121.1	511.0	314.6	230.0	199.6	182.1	170.9	169.3	169.3	169.3
40°	1593.7	1159.4	527.0	314.6	222.0	188.4	172.5	162.9	162.9	162.9	162.9
42.5°	1646.4	1162.6	523.8	314.6	215.6	180.5	166.1	156.5	156.5	158.1	156.5
45°	1724.7	1178.5	511.0	309.8	210.8	174.1	159.7	151.7	150.1	151.7	151.7
47.5°	1817.3	1207.3	498.2	290.6	209.2	167.7	154.9	145.3	143.7	145.3	143.7
50°	1905.2	1232.8	491.9	265.1	206.0	161.3	148.5	138.9	137.3	138.9	137.3
52.5°	1978.6	1244.0	480.7	247.5	198.0	154.9	142.1	132.5	129.4	130.9	130.9
55°	2037.7	1240.8	464.7	233.2	183.6	148.5	134.1	126.2	121.4	121.4	119.8
57.5°	2092.0	1242.4	450.3	218.8	167.7	138.9	127.8	118.2	111.8	110.2	108.6
60°	2112.8	1234.4	424.8	199.6	151.7	130.9	119.8	108.6	102.2	100.6	99.0
62.5°	2084.0	1205.7	391.3	166.1	137.3	121.4	111.8	100.6	94.2	92.6	91.0
65°	2002.6	1151.4	340.1	130.9	124.6	110.2	102.2	94.2	86.2	83.0	81.4
67.5°	1863.6	1073.1	276.3	105.4	110.2	100.6	95.8	86.2	76.7	73.5	71.9
70°	1665.6	969.3	207.6	89.4	97.4	89.4	86.2	76.7	68.7	65.5	63.9
72.5°	1387.7	801.7	145.3	76.7	84.6	78.3	75.1	68.7	60.7	55.9	55.9
75°	1049.2	574.9	95.8	65.5	70.3	67.1	62.3	57.5	52.7	49.5	47.9
77.5°	451.9	223.6	59.1	49.5	57.5	55.9	49.5	46.3	44.7	41.5	41.5
80°	194.8	91.0	36.7	36.7	41.5	39.9	38.3	35.1	35.1	33.5	31.9
82.5°	71.9	36.7	22.4	27.1	30.3	27.1	27.1	27.1	27.1	25.6	25.6
85°	17.6	11.2	11.2	16.0	17.6	16.0	17.6	16.0	16.0	16.0	14.4
87.5°	4.8	4.8	6.4	6.4	6.4	6.4	6.4	4.8	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)