

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: P836094

Luminaire Tested: **ARCH3-140-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

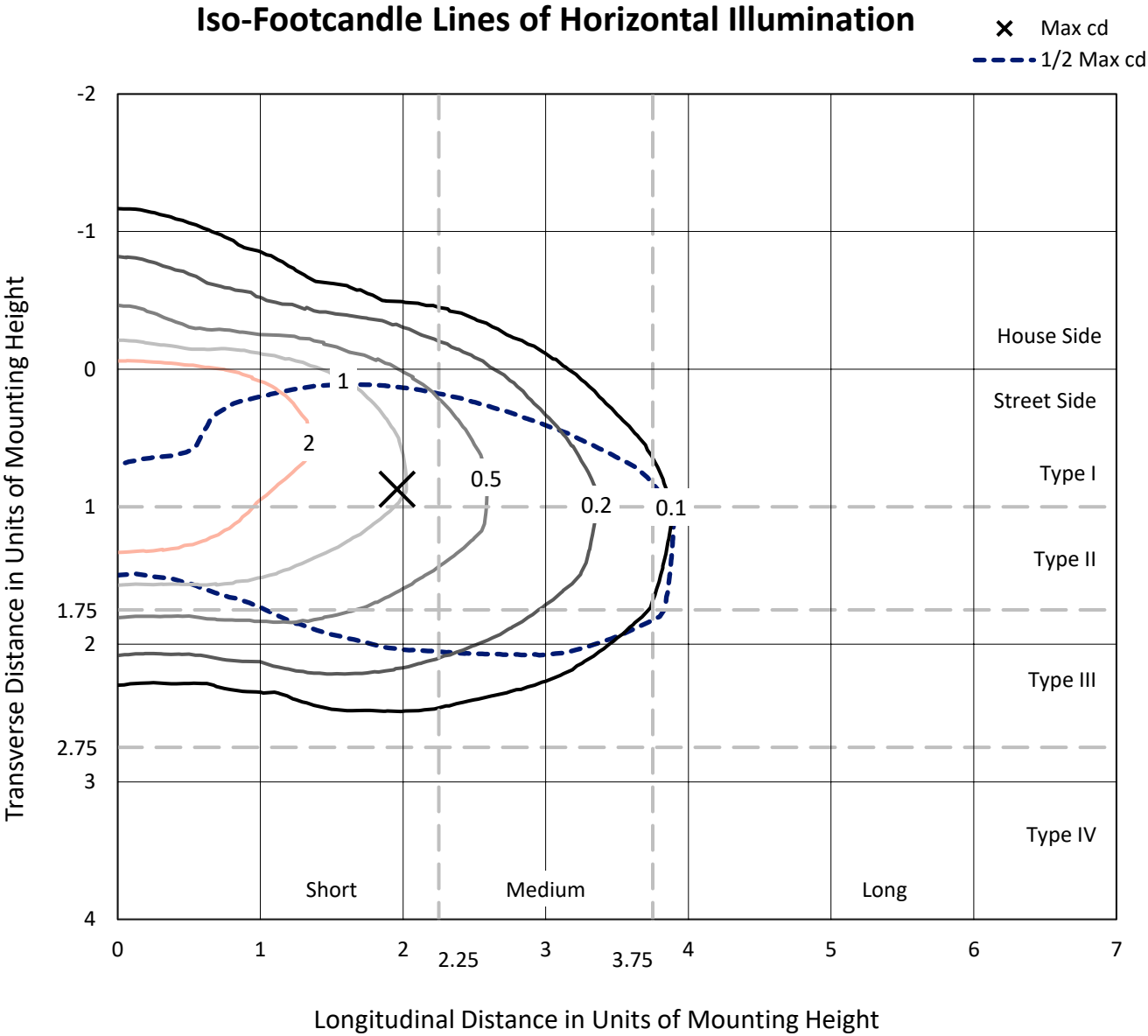
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12333 lumens
Efficiency: N/A
Efficacy: 86.5 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): 142.5
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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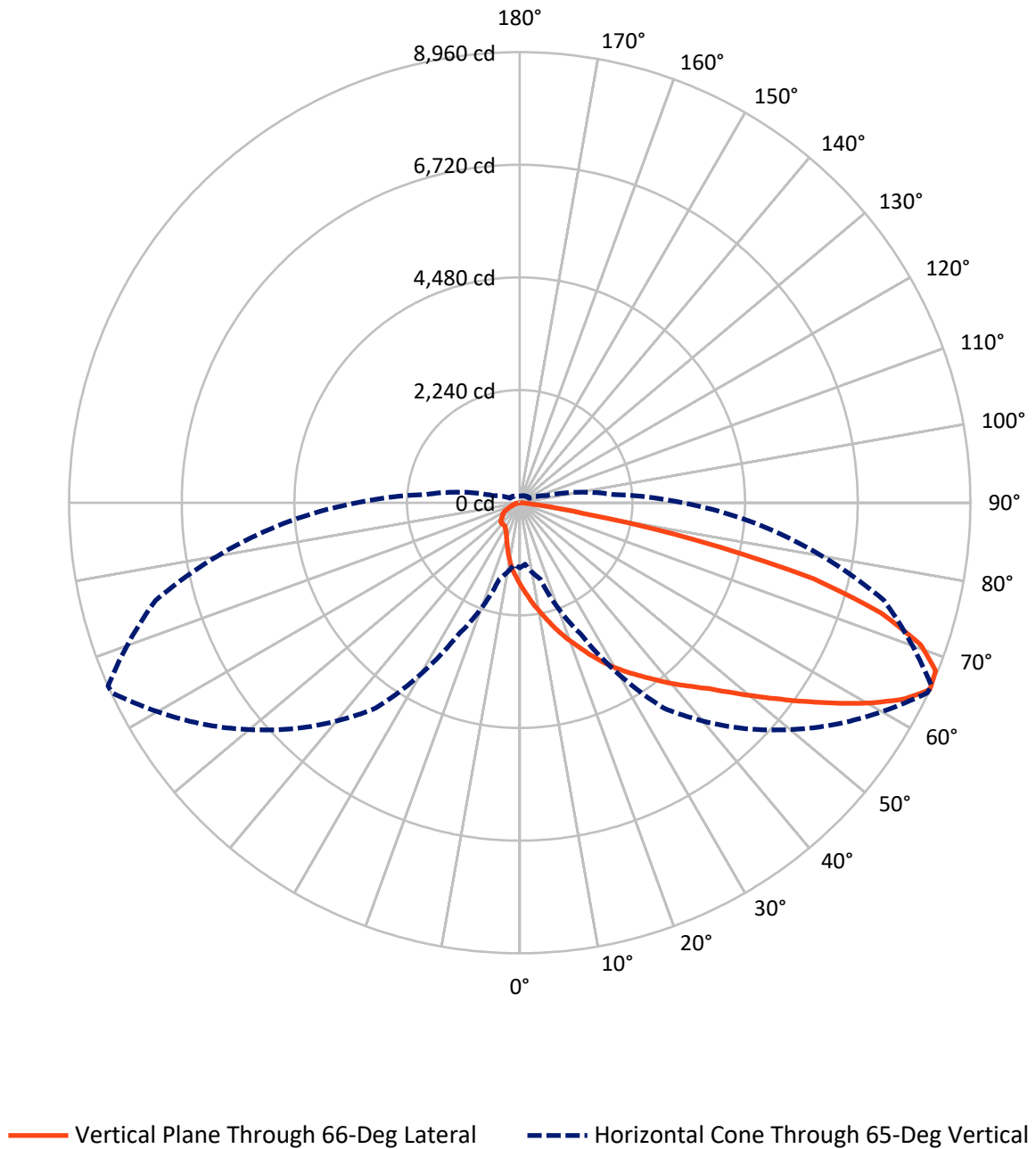


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1304.5	0.0	1304.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	11028.5	0.0	11028.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	12333.0	0.0	12333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.3
10°-20°	525.1	4.3
20°-30°	950.0	7.7
30°-40°	1485.6	12.0
40°-50°	2253.6	18.3
50°-60°	2863.3	23.2
60°-70°	2675.4	21.7
70°-80°	1329.7	10.8
80°-90°	89.3	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°	12333.0	100.0
0°-180°	12333.0	100.0

Coefficient of Utilization



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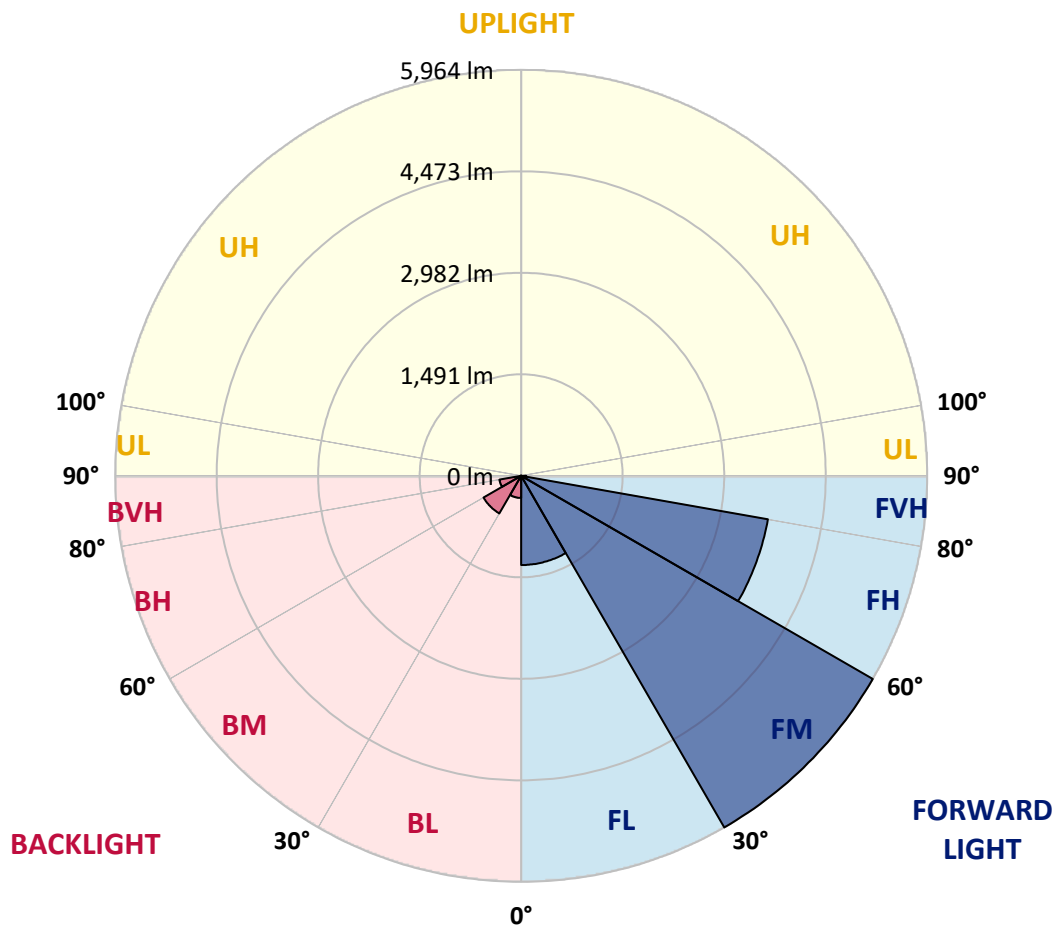
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1310.4	10.6			
FM	(30°-60°)	5964.4	48.4			
FH	(60°-80°)	3680.2	29.8			G2/5000
FVH	(80°-90°)	73.5	0.6			G1/100
BL	(0°-30°)	325.8	2.6	B1/500		
BM	(30°-60°)	638.0	5.2	B1/1000		
BH	(60°-80°)	324.9	2.6	B1/500		G1/500
BVH	(80°-90°)	15.8	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°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1906.4	1921.9	1929.7	1932.3	1872.8	1846.9	1821.0	1761.5	1748.6	1715.0	1671.0
5°	2242.7	2263.4	2258.2	2247.8	2175.4	2092.6	2025.4	1914.2	1896.0	1815.9	1717.6
7.5°	2573.8	2591.9	2586.7	2547.9	2467.7	2351.3	2240.1	2077.1	2051.2	1921.9	1764.1
10°	2850.5	2866.1	2863.5	2824.7	2729.0	2586.7	2452.2	2234.9	2203.9	2020.2	1802.9
12.5°	3078.2	3098.9	3096.3	3070.4	2985.0	2829.8	2677.2	2416.0	2377.2	2139.2	1857.2
15°	3256.6	3282.5	3282.5	3272.2	3212.7	3083.3	2910.0	2615.1	2568.6	2276.3	1924.5
17.5°	3365.3	3386.0	3404.1	3422.2	3380.8	3282.5	3124.7	2814.3	2765.2	2410.8	1994.3
20°	3422.2	3442.9	3455.8	3494.6	3502.4	3453.2	3329.1	3010.9	2959.2	2563.4	2074.5
22.5°	3515.3	3533.4	3536.0	3569.6	3585.2	3598.1	3520.5	3204.9	3163.5	2731.6	2165.1
25°	3670.5	3691.2	3683.5	3699.0	3701.6	3717.1	3709.3	3427.4	3386.0	2923.0	2273.7
27.5°	3869.7	3895.6	3890.4	3874.9	3851.6	3838.7	3872.3	3652.4	3613.6	3114.4	2384.9
30°	4084.4	4115.4	4107.7	4076.6	4014.6	3960.2	4006.8	3864.5	3828.3	3311.0	2509.1
32.5°	4301.7	4337.9	4335.3	4283.6	4177.5	4084.4	4154.2	4063.7	4037.8	3523.1	2643.6
35°	4443.9	4490.5	4485.3	4454.3	4317.2	4237.0	4322.4	4268.0	4249.9	3781.7	2837.6
37.5°	4674.2	4723.3	4679.3	4601.7	4443.9	4402.6	4506.0	4498.3	4485.3	4055.9	3042.0
40°	5232.9	5305.3	5188.9	4870.7	4612.1	4575.9	4723.3	4754.3	4741.4	4327.5	3225.6
42.5°	5817.5	5926.1	5745.1	5305.3	4917.3	4785.4	4961.3	5005.3	4989.7	4560.3	3391.2
45°	6171.9	6218.4	6037.3	5695.9	5457.9	5038.9	5214.8	5287.2	5274.3	4839.7	3603.3
47.5°	6461.6	6443.5	6236.5	6006.3	6050.3	5395.8	5501.9	5644.2	5633.8	5147.5	3836.1
50°	6523.6	6482.3	6399.5	6254.6	6371.0	5758.0	5804.5	6050.3	6039.9	5489.0	4071.5
52.5°	6086.5	6032.2	6257.2	6378.8	6340.0	6021.8	6138.2	6495.2	6490.0	5858.9	4296.5
55°	4994.9	4950.9	5556.2	6184.8	6306.4	6208.1	6508.1	6958.2	6986.7	6252.0	4500.9
57.5°	3929.2	3882.6	4477.6	5698.5	6182.2	6378.8	6940.1	7488.5	7524.7	6678.8	4694.9
60°	3132.5	3062.6	3517.9	4932.8	5949.4	6510.7	7356.6	8070.5	8075.7	7069.4	4813.8
62.5°	2128.9	2051.2	2555.7	3962.8	5558.8	6531.4	7677.3	8572.3	8593.0	7361.7	4834.5
65°	1293.3	1228.7	1570.1	2894.5	4982.0	6355.5	7682.5	8942.2	8960.3	7496.2	4710.4
67.5°	750.1	724.3	897.6	1802.9	4024.9	5882.1	7359.1	8885.3	8918.9	7439.3	4428.4
70°	437.2	434.6	499.2	892.4	2840.2	4943.2	6637.5	8406.8	8455.9	7141.9	3996.4
72.5°	320.8	325.9	351.8	478.5	1645.1	3559.3	5620.9	7444.5	7519.5	6559.9	3380.8
75°	253.5	256.1	279.4	325.9	864.0	2012.4	4211.1	5975.3	6034.8	5522.6	2641.0
77.5°	188.8	194.0	212.1	230.2	400.9	923.5	2369.4	3680.9	3582.6	3031.6	1275.2
80°	137.1	150.0	157.8	165.5	212.1	357.0	711.3	1283.0	1272.7	1324.4	602.7
82.5°	87.9	98.3	106.1	111.2	126.7	170.7	212.1	287.1	310.4	514.8	240.6
85°	38.8	44.0	49.1	59.5	54.3	59.5	87.9	56.9	49.1	77.6	44.0
87.5°	0.0	0.0	7.8	12.9	10.3	5.2	15.5	10.3	7.8	7.8	7.8
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°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1647.7	1619.3	1559.8	1502.9	1469.2	1425.3	1386.5	1350.3	1347.7	1337.3	1319.2
5°	1668.4	1614.1	1502.9	1396.8	1316.6	1231.3	1158.8	1101.9	1081.2	1065.7	1045.0
7.5°	1689.1	1603.8	1438.2	1283.0	1156.3	1037.3	951.9	874.3	851.0	830.3	817.4
10°	1696.9	1585.6	1363.2	1156.3	990.7	864.0	773.4	716.5	695.8	685.5	677.7
12.5°	1720.2	1575.3	1293.3	1037.3	845.8	729.4	664.8	631.2	623.4	615.6	607.9
15°	1751.2	1575.3	1223.5	920.9	732.0	638.9	600.1	576.8	571.7	569.1	563.9
17.5°	1784.8	1575.3	1156.3	822.6	649.3	579.4	551.0	538.0	535.4	532.9	530.3
20°	1831.4	1577.9	1083.8	737.2	589.8	535.4	512.2	496.6	494.1	491.5	491.5
22.5°	1877.9	1583.1	1014.0	672.5	551.0	501.8	473.4	457.8	452.7	452.7	452.7
25°	1937.4	1598.6	949.3	618.2	517.3	470.8	434.6	421.6	419.0	419.0	416.5
27.5°	2007.3	1616.7	892.4	576.8	483.7	434.6	398.4	385.4	380.2	380.2	377.7
30°	2082.3	1634.8	845.8	545.8	450.1	398.4	364.7	349.2	344.0	346.6	344.0
32.5°	2165.1	1660.7	809.6	525.1	419.0	367.3	336.3	318.2	315.6	315.6	313.0
35°	2304.7	1733.1	804.5	514.8	393.2	344.0	313.0	294.9	292.3	292.3	289.7
37.5°	2454.8	1815.9	827.7	509.6	372.5	323.3	294.9	276.8	274.2	274.2	274.2
40°	2581.5	1877.9	853.6	509.6	359.6	305.2	279.4	263.8	263.8	263.8	263.8
42.5°	2666.9	1883.1	848.4	509.6	349.2	292.3	269.0	253.5	253.5	256.1	253.5
45°	2793.6	1909.0	827.7	501.8	341.4	281.9	258.7	245.7	243.1	245.7	245.7
47.5°	2943.7	1955.5	807.0	470.8	338.9	271.6	250.9	235.4	232.8	235.4	232.8
50°	3085.9	1996.9	796.7	429.4	333.7	261.3	240.6	225.0	222.5	225.0	222.5
52.5°	3204.9	2015.0	778.6	400.9	320.8	250.9	230.2	214.7	209.5	212.1	212.1
55°	3300.6	2009.9	752.7	377.7	297.5	240.6	217.3	204.3	196.6	196.6	194.0
57.5°	3388.6	2012.4	729.4	354.4	271.6	225.0	206.9	191.4	181.1	178.5	175.9
60°	3422.2	1999.5	688.1	323.3	245.7	212.1	194.0	175.9	165.5	163.0	160.4
62.5°	3375.6	1953.0	633.7	269.0	222.5	196.6	181.1	163.0	152.6	150.0	147.4
65°	3243.7	1865.0	551.0	212.1	201.8	178.5	165.5	152.6	139.7	134.5	131.9
67.5°	3018.7	1738.3	447.5	170.7	178.5	163.0	155.2	139.7	124.2	119.0	116.4
70°	2697.9	1570.1	336.3	144.9	157.8	144.9	139.7	124.2	111.2	106.1	103.5
72.5°	2247.8	1298.5	235.4	124.2	137.1	126.7	121.6	111.2	98.3	90.5	90.5
75°	1699.5	931.2	155.2	106.1	113.8	108.6	100.9	93.1	85.4	80.2	77.6
77.5°	732.0	362.1	95.7	80.2	93.1	90.5	80.2	75.0	72.4	67.3	67.3
80°	315.6	147.4	59.5	59.5	67.3	64.7	62.1	56.9	56.9	54.3	51.7
82.5°	116.4	59.5	36.2	44.0	49.1	44.0	44.0	44.0	44.0	41.4	41.4
85°	28.5	18.1	18.1	25.9	28.5	25.9	28.5	25.9	25.9	25.9	23.3
87.5°	7.8	7.8	10.3	10.3	10.3	10.3	10.3	7.8	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)