

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: P1211158

Luminaire Tested: **ARCH4-190-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17919 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 190
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



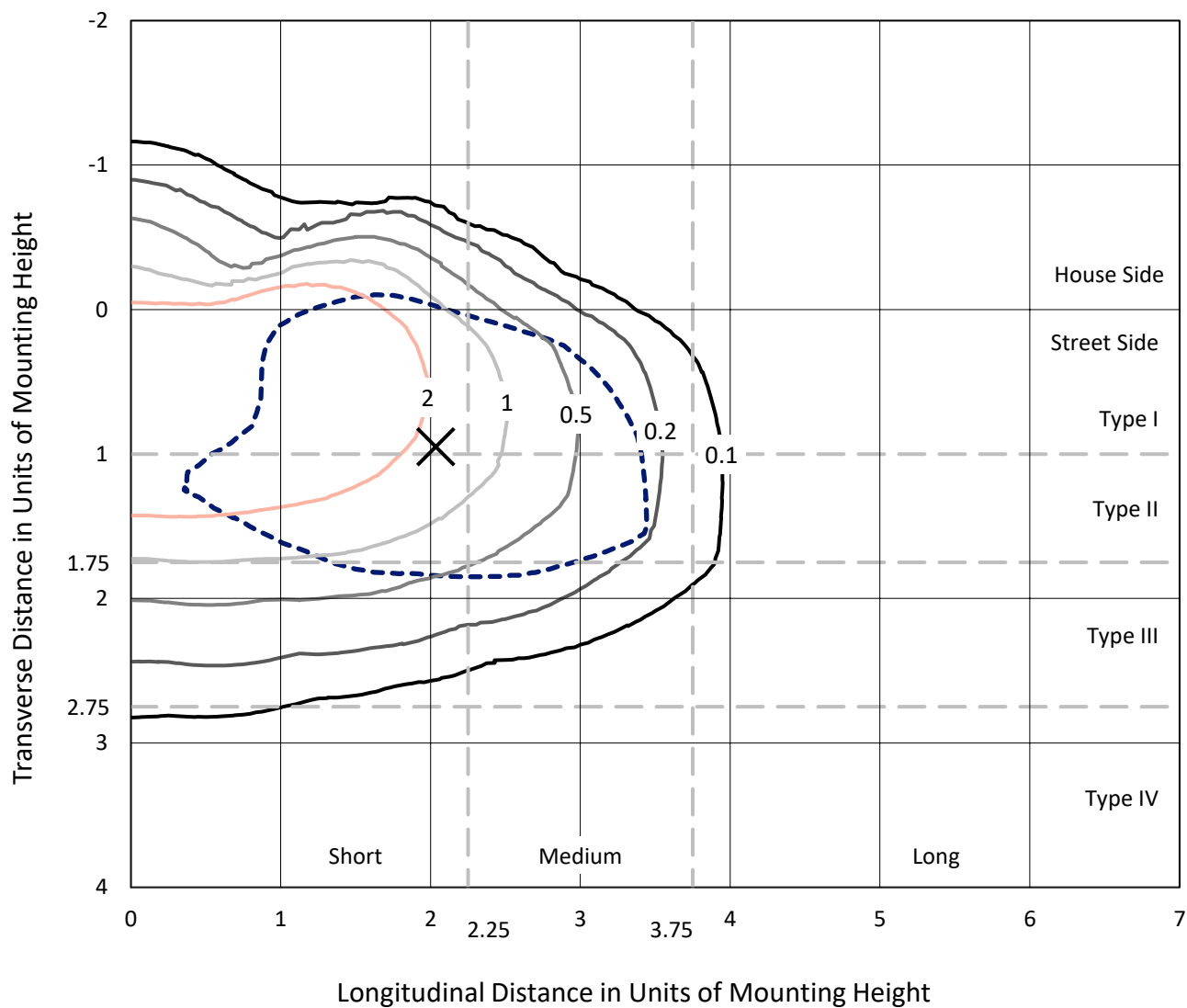
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

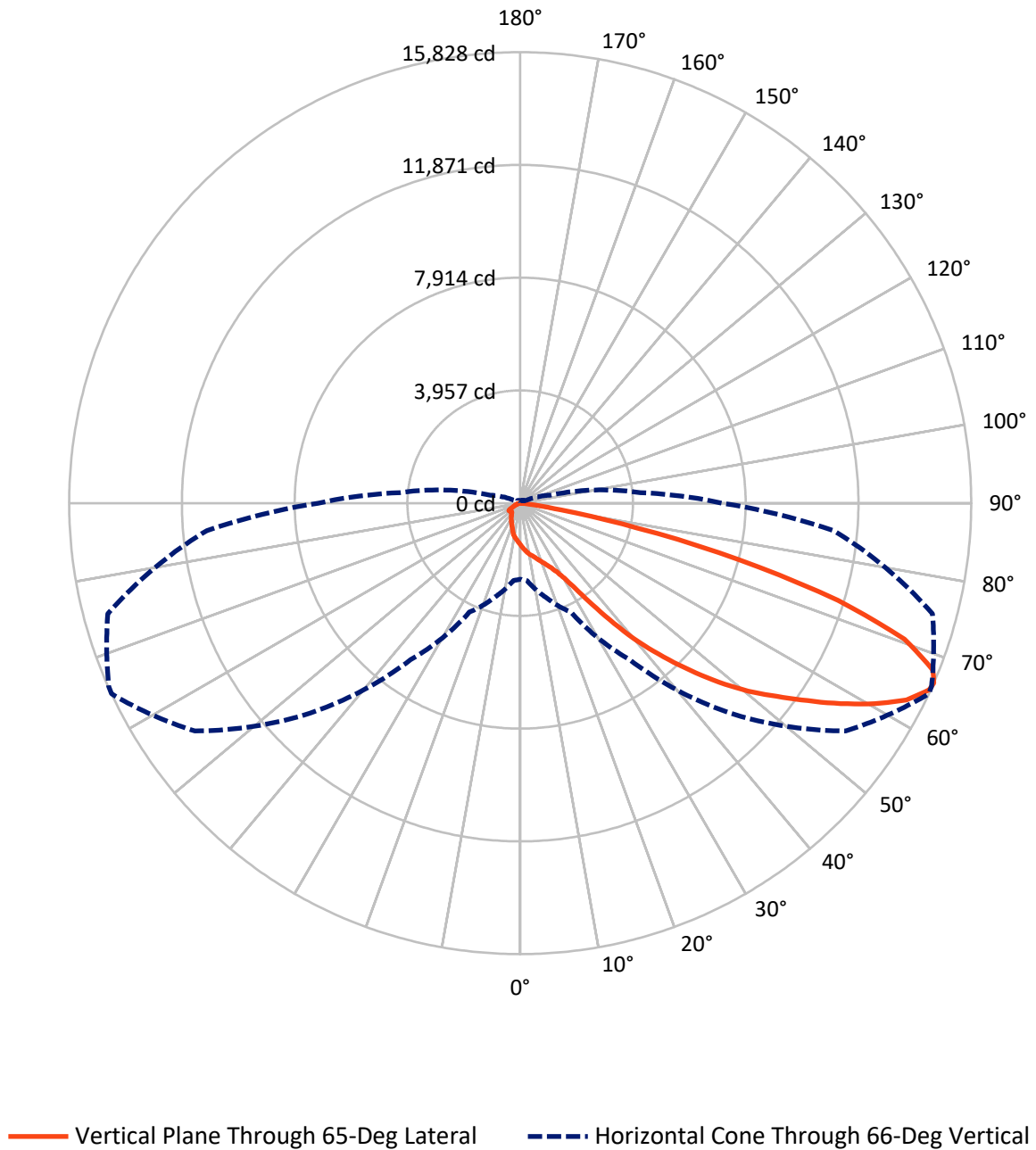
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	2114.8	0.0	2114.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15804.2	0.0	15804.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	17919.0	0.0	17919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	0.8
10°-20°	409.7	2.3
20°-30°	749.9	4.2
30°-40°	1523.8	8.5
40°-50°	3217.8	18.0
50°-60°	4946.8	27.6
60°-70°	4979.3	27.8
70°-80°	1860.5	10.4
80°-90°	93.0	0.5
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°	17919.0	100.0
0°-180°	17919.0	100.0

Coefficient of Utilization



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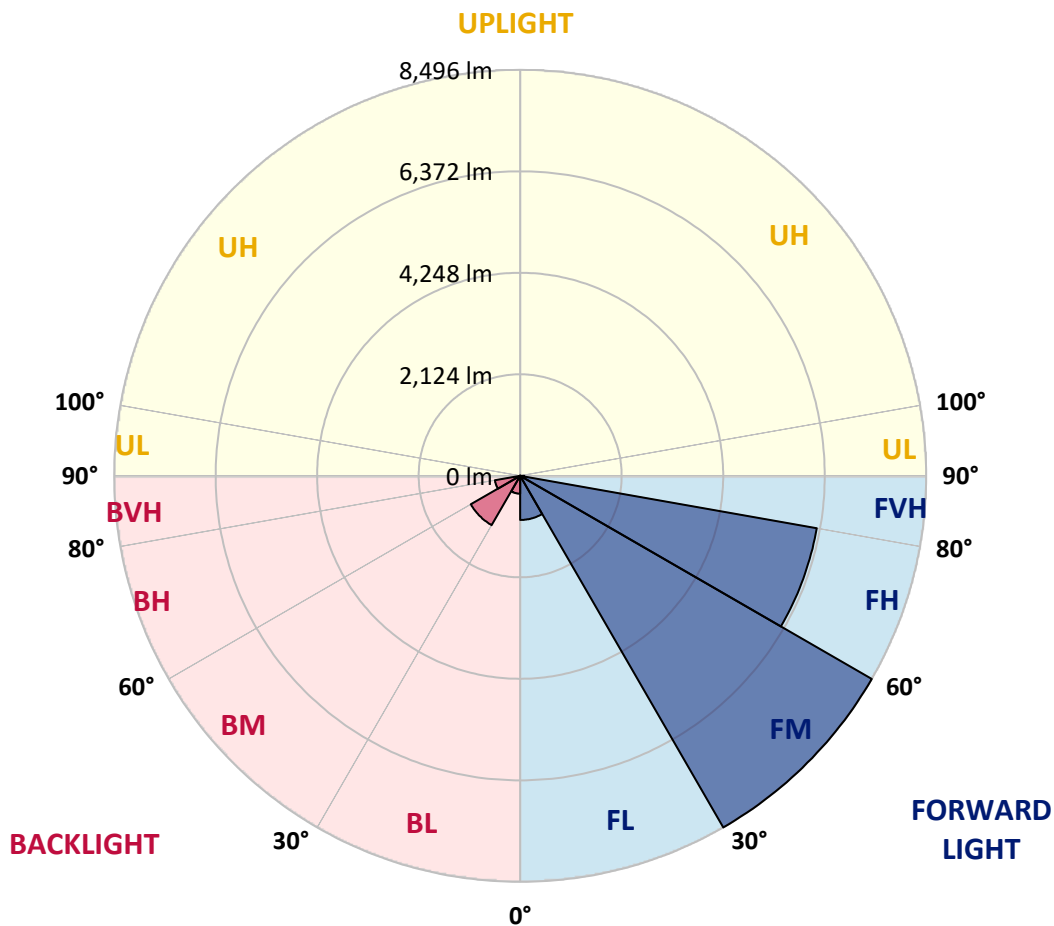
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	923.7	5.2			
FM	(30°-60°)	8495.9	47.4			
FH	(60°-80°)	6302.5	35.2			G3/7500
FVH	(80°-90°)	82.0	0.5			G1/100
BL	(0°-30°)	374.3	2.1	B1/500		
BM	(30°-60°)	1192.3	6.7	B2/2500		
BH	(60°-80°)	537.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9
2.5°	1664.7	1668.0	1661.5	1648.5	1635.5	1619.2	1593.2	1550.9	1544.4	1515.2	1482.7
5°	1778.5	1785.0	1775.3	1772.0	1765.5	1742.8	1707.0	1645.2	1638.7	1580.2	1505.4
7.5°	1817.6	1827.3	1820.8	1820.8	1820.8	1811.0	1794.8	1739.5	1729.8	1655.0	1541.2
10°	1846.8	1853.3	1850.1	1863.1	1872.8	1866.3	1856.6	1824.1	1814.3	1739.5	1590.0
12.5°	1892.3	1895.6	1898.8	1905.3	1921.6	1928.1	1924.8	1895.6	1889.1	1837.1	1651.7
15°	1934.6	1934.6	1937.9	1967.1	1989.9	2002.9	2006.1	1983.4	1976.9	1934.6	1729.8
17.5°	1973.6	1976.9	1986.6	2019.1	2058.2	2084.2	2100.4	2090.7	2080.9	2048.4	1820.8
20°	2032.1	2038.6	2048.4	2093.9	2132.9	2175.2	2207.7	2204.5	2201.2	2178.5	1928.1
22.5°	2132.9	2139.4	2155.7	2198.0	2237.0	2289.0	2344.3	2341.0	2331.3	2315.0	2054.9
25°	2285.8	2285.8	2295.5	2331.3	2380.1	2441.8	2493.9	2503.6	2493.9	2484.1	2214.2
27.5°	2477.6	2480.8	2480.8	2519.9	2565.4	2643.4	2708.4	2718.2	2718.2	2708.4	2428.8
30°	2744.2	2734.5	2728.0	2760.5	2809.2	2923.0	3036.8	3056.3	3046.6	3062.9	2731.2
32.5°	3202.7	3186.4	3131.1	3137.6	3166.9	3323.0	3514.8	3583.1	3579.8	3609.1	3218.9
35°	3836.7	3804.2	3722.9	3654.6	3651.4	3820.4	4113.1	4369.9	4366.7	4467.5	3960.2
37.5°	4552.0	4594.3	4441.5	4324.4	4288.6	4422.0	4799.1	5355.1	5384.4	5560.0	4932.4
40°	5507.9	5533.9	5338.9	5173.0	5004.0	5052.7	5550.2	6415.1	6467.1	6662.2	5904.6
42.5°	6340.3	6366.3	6252.5	6050.9	5836.3	5745.3	6307.8	7377.5	7419.8	7689.6	6906.0
45°	6906.0	6925.6	6964.6	6984.1	6740.2	6551.6	7234.4	8365.9	8418.0	8730.1	7884.7
47.5°	7348.2	7364.5	7442.5	7637.6	7588.8	7439.3	8177.4	9393.4	9406.4	9754.3	8837.4
50°	7553.1	7592.1	7783.9	8083.1	8297.7	8339.9	9201.6	10365.6	10401.3	10733.0	9738.0
52.5°	7325.5	7338.5	7823.0	8385.5	8817.9	9247.1	10229.0	11266.2	11370.3	11617.4	10547.7
55°	6558.1	6652.4	7387.3	8375.7	9227.6	10108.7	11328.0	12238.4	12332.7	12488.8	11259.7
57.5°	5667.3	5771.3	6665.4	7956.3	9403.2	10905.3	12345.7	13272.4	13337.4	13379.7	11913.3
60°	4896.7	4994.2	5914.4	7153.2	9227.6	11467.8	13291.9	14299.8	14355.1	14241.3	12241.7
62.5°	3950.5	4048.0	4974.7	6089.9	8538.3	11581.6	13994.2	15213.5	15236.2	14927.3	12040.1
65°	2978.3	3043.3	3817.2	4773.1	7332.0	10976.8	14153.5	15782.5	15759.7	15125.7	11435.3
66°	2669.4	2724.7	3407.5	4220.4	6704.5	10424.1	13938.9	15828.0	15805.2	14979.4	11038.6
67.5°	2302.0	2318.3	2880.8	3453.0	5608.7	9250.3	13285.4	15619.9	15639.4	14576.2	10313.6
70°	1798.0	1794.8	2119.9	2402.8	3830.2	6580.9	11080.9	14309.6	14403.9	13054.5	8795.1
72.5°	1151.0	1112.0	1300.6	1469.6	2230.5	3820.4	8079.8	11662.9	11822.2	10255.0	6551.6
75°	686.1	647.0	692.6	734.8	1069.7	1837.1	4750.3	7936.8	8089.6	6574.4	3898.5
77.5°	513.7	497.5	500.7	465.0	474.7	689.3	2168.7	4194.4	4304.9	2692.2	1479.4
80°	393.4	351.2	328.4	344.7	312.1	273.1	806.4	1443.6	1511.9	637.3	308.9
82.5°	263.4	227.6	211.3	230.9	198.3	152.8	195.1	279.6	273.1	172.3	120.3
85°	136.6	117.1	117.1	117.1	100.8	74.8	84.5	113.8	113.8	91.0	71.5
87.5°	39.0	35.8	42.3	39.0	29.3	29.3	32.5	39.0	39.0	35.8	32.5
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°	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9
2.5°	1456.6	1443.6	1407.9	1381.9	1355.8	1333.1	1307.1	1300.6	1287.6	1290.8	1284.3
5°	1466.4	1430.6	1368.9	1310.3	1264.8	1225.8	1177.0	1157.5	1131.5	1121.7	1115.2
7.5°	1479.4	1427.4	1336.3	1255.1	1177.0	1099.0	1021.0	975.4	946.2	933.2	923.4
10°	1508.7	1440.4	1320.1	1193.3	1060.0	949.4	871.4	838.9	819.4	816.1	812.9
12.5°	1547.7	1459.9	1303.8	1115.2	939.7	835.6	786.8	777.1	773.8	773.8	770.6
15°	1606.2	1492.4	1277.8	1024.2	845.4	773.8	751.1	734.8	728.3	728.3	728.3
17.5°	1664.7	1531.4	1238.8	929.9	780.3	734.8	712.1	702.3	695.8	699.1	695.8
20°	1739.5	1576.9	1186.8	848.6	738.1	702.3	679.5	669.8	666.5	666.5	666.5
22.5°	1824.1	1629.0	1121.7	786.8	702.3	669.8	647.0	637.3	630.8	634.0	634.0
25°	1937.9	1694.0	1053.5	725.1	666.5	637.3	611.3	598.3	598.3	601.5	604.8
27.5°	2084.2	1772.0	985.2	686.1	634.0	604.8	575.5	562.5	565.7	572.3	572.3
30°	2298.8	1879.3	916.9	643.8	598.3	565.7	539.7	526.7	533.2	546.2	546.2
32.5°	2604.4	2054.9	858.4	595.0	546.2	510.5	484.5	474.7	491.0	517.0	517.0
35°	3150.6	2376.8	822.6	546.2	491.0	448.7	416.2	406.4	429.2	461.7	461.7
37.5°	3882.2	2893.8	835.6	504.0	445.4	396.7	360.9	347.9	364.2	393.4	403.2
40°	4698.3	3518.1	949.4	468.2	403.2	354.4	318.6	305.6	315.4	328.4	331.6
42.5°	5514.4	4181.3	1164.0	442.2	370.7	318.6	286.1	276.4	282.9	286.1	289.4
45°	6327.3	4838.1	1433.9	425.9	341.4	289.4	256.9	256.9	260.1	260.1	260.1
47.5°	7097.9	5478.7	1716.8	422.7	315.4	260.1	234.1	237.4	237.4	240.6	240.6
50°	7826.2	6050.9	2002.9	432.4	292.6	234.1	214.6	214.6	214.6	217.8	214.6
52.5°	8434.2	6551.6	2302.0	448.7	269.9	214.6	195.1	195.1	195.1	198.3	195.1
55°	9009.7	7006.8	2607.7	471.5	250.4	198.3	178.8	172.3	172.3	175.6	172.3
57.5°	9477.9	7309.2	2897.0	474.7	234.1	182.1	165.8	156.1	156.1	156.1	156.1
60°	9497.4	7133.6	2981.6	416.2	214.6	165.8	149.6	136.6	139.8	139.8	139.8
62.5°	8876.4	6210.2	2396.3	312.1	191.8	149.6	136.6	123.6	123.6	123.6	123.6
65°	7657.1	4831.6	1404.6	247.1	165.8	133.3	120.3	110.5	110.5	110.5	107.3
66°	7084.9	4236.6	1076.2	224.3	156.1	130.1	117.1	107.3	104.0	100.8	100.8
67.5°	6151.7	3349.0	673.0	198.3	143.1	120.3	107.3	97.5	94.3	91.0	91.0
70°	4633.3	2126.4	328.4	152.8	123.6	104.0	94.3	84.5	81.3	78.0	74.8
72.5°	3251.4	1245.3	172.3	117.1	100.8	91.0	81.3	71.5	68.3	65.0	65.0
75°	1837.1	601.5	113.8	84.5	81.3	74.8	68.3	58.5	55.3	55.3	55.3
77.5°	695.8	208.1	78.0	61.8	65.0	58.5	48.8	48.8	45.5	48.8	45.5
80°	182.1	91.0	48.8	45.5	48.8	42.3	35.8	39.0	39.0	39.0	39.0
82.5°	97.5	52.0	29.3	32.5	29.3	29.3	22.8	26.0	29.3	26.0	29.3
85°	68.3	26.0	16.3	16.3	13.0	13.0	9.8	13.0	16.3	13.0	13.0
87.5°	35.8	9.8	9.8	9.8	9.8	6.5	3.3	0.0	3.3	3.3	3.3
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)