

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: P1210654

Luminaire Tested: **ARCH3-190-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210654
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: ARCH3-190-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16972 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.4
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

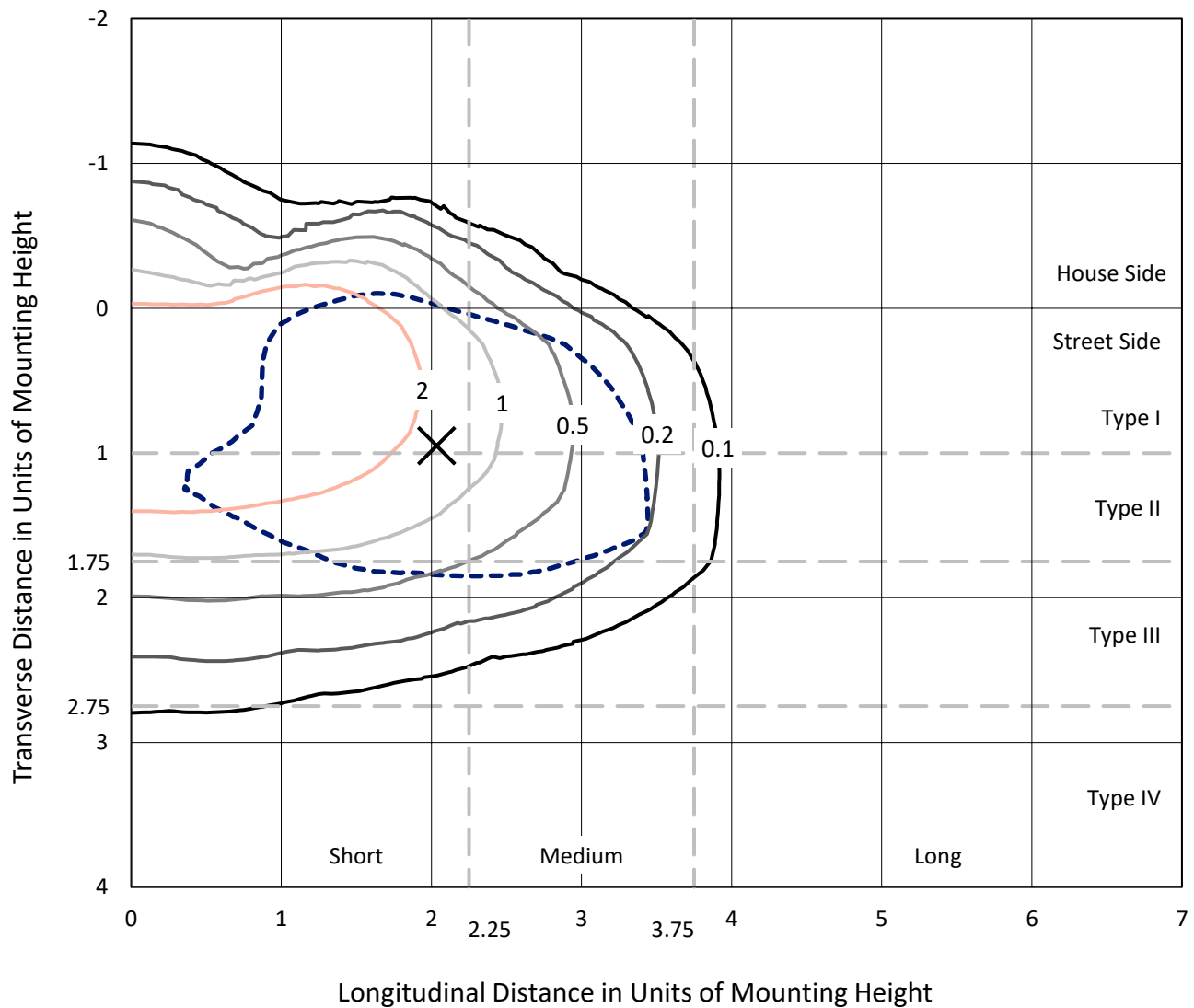


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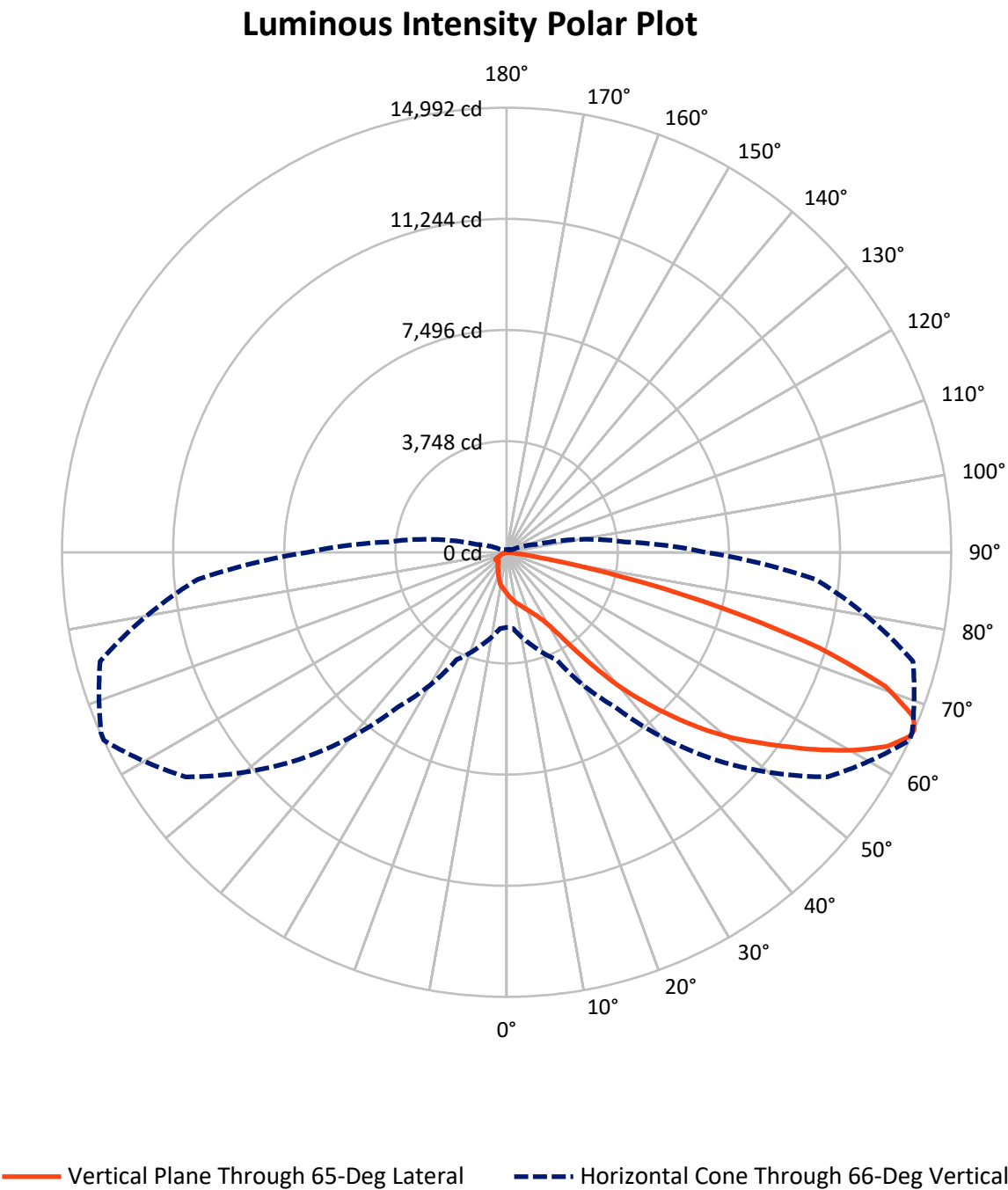
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2003.0	0.0	2003.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14969.0	0.0	14969.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	16972.0	0.0	16972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	0.8
10°-20°	388.1	2.3
20°-30°	710.3	4.2
30°-40°	1443.2	8.5
40°-50°	3047.7	18.0
50°-60°	4685.3	27.6
60°-70°	4716.1	27.8
70°-80°	1762.2	10.4
80°-90°	88.0	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°	16972.0	100.0
0°-180°	16972.0	100.0

Coefficient of Utilization



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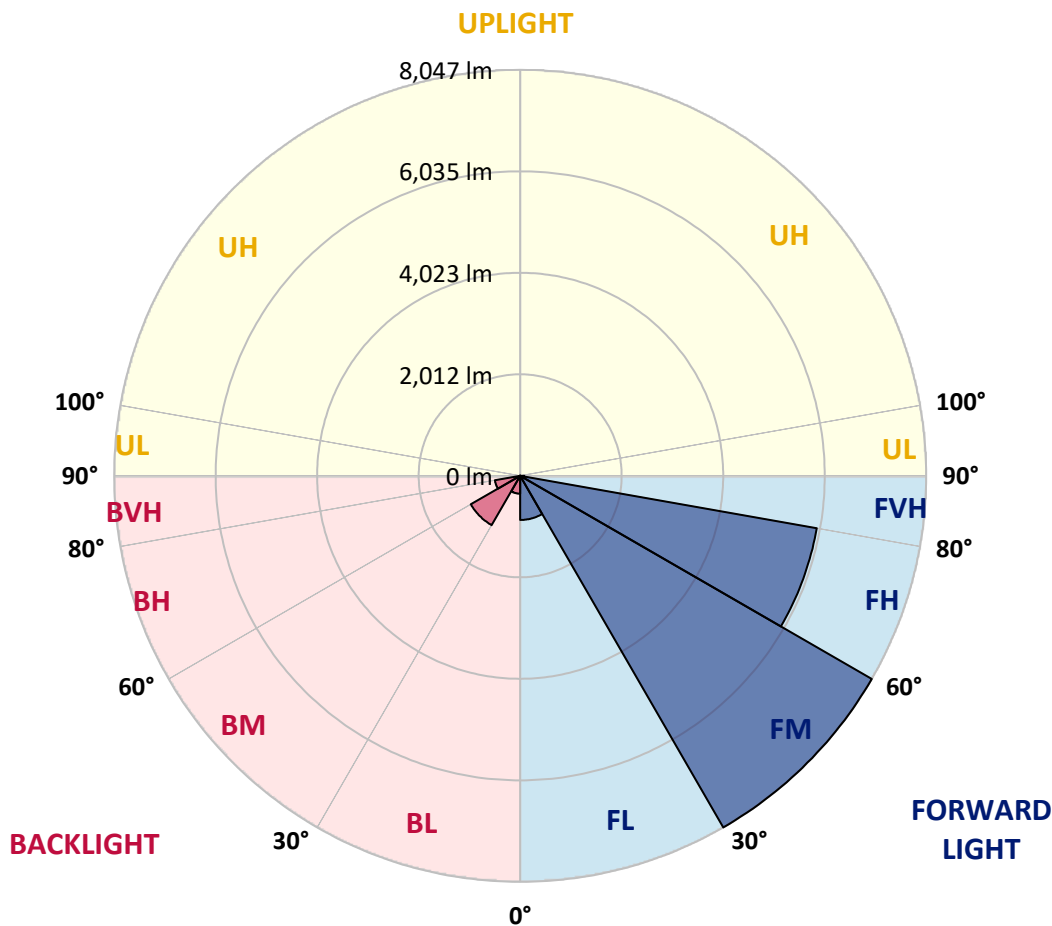
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.9	5.2			
FM	(30°-60°)	8046.9	47.4			
FH	(60°-80°)	5969.5	35.2			G3/7500
FVH	(80°-90°)	77.7	0.5			G1/100
BL	(0°-30°)	354.5	2.1	B1/500		
BM	(30°-60°)	1129.3	6.7	B2/2500		
BH	(60°-80°)	508.8	3.0	B2/1000		G2/1000
BVH	(80°-90°)	10.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7
2.5°	1576.8	1579.8	1573.7	1561.4	1549.0	1533.6	1509.0	1469.0	1462.8	1435.1	1404.3
5°	1684.5	1690.7	1681.5	1678.4	1672.2	1650.7	1616.8	1558.3	1552.1	1496.7	1425.9
7.5°	1721.5	1730.7	1724.6	1724.6	1724.6	1715.3	1699.9	1647.6	1638.3	1567.5	1459.7
10°	1749.2	1755.4	1752.3	1764.6	1773.8	1767.7	1758.5	1727.7	1718.4	1647.6	1505.9
12.5°	1792.3	1795.4	1798.5	1804.6	1820.0	1826.2	1823.1	1795.4	1789.2	1740.0	1564.4
15°	1832.4	1832.4	1835.4	1863.2	1884.7	1897.0	1900.1	1878.6	1872.4	1832.4	1638.3
17.5°	1869.3	1872.4	1881.6	1912.4	1949.4	1974.0	1989.4	1980.2	1970.9	1940.1	1724.6
20°	1924.8	1930.9	1940.1	1983.3	2020.2	2060.3	2091.0	2088.0	2084.9	2063.3	1826.2
22.5°	2020.2	2026.4	2041.8	2081.8	2118.8	2168.0	2220.4	2217.3	2208.1	2192.7	1946.3
25°	2165.0	2165.0	2174.2	2208.1	2254.3	2312.8	2362.1	2371.3	2362.1	2352.8	2097.2
27.5°	2346.7	2349.7	2349.7	2386.7	2429.8	2503.7	2565.3	2574.5	2574.5	2565.3	2300.5
30°	2599.2	2589.9	2583.8	2614.6	2660.8	2768.6	2876.3	2894.8	2885.6	2901.0	2586.9
32.5°	3033.4	3018.0	2965.7	2971.8	2999.5	3147.4	3329.0	3393.7	3390.6	3418.4	3048.8
35°	3633.9	3603.1	3526.1	3461.5	3458.4	3618.5	3895.7	4139.0	4135.9	4231.4	3751.0
37.5°	4311.4	4351.5	4206.7	4095.9	4062.0	4188.3	4545.5	5072.1	5099.8	5266.1	4671.8
40°	5216.8	5241.5	5056.7	4899.6	4739.5	4785.7	5256.9	6076.1	6125.3	6310.1	5592.6
42.5°	6005.2	6029.9	5922.1	5731.1	5527.9	5441.7	5974.4	6987.6	7027.6	7283.3	6541.1
45°	6541.1	6559.5	6596.5	6615.0	6384.0	6205.4	6852.1	7923.8	7973.1	8268.7	7468.0
47.5°	6959.9	6975.3	7049.2	7234.0	7187.8	7046.1	7745.2	8897.0	8909.3	9238.8	8370.4
50°	7153.9	7190.9	7372.6	7655.9	7859.1	7899.2	8715.3	9817.8	9851.6	10165.8	9223.4
52.5°	6938.3	6950.7	7409.5	7942.3	8351.9	8758.4	9688.4	10670.8	10769.4	11003.4	9990.2
55°	6211.6	6300.9	6996.9	7933.1	8739.9	9574.5	10729.3	11591.6	11680.9	11828.7	10664.7
57.5°	5367.7	5466.3	6313.2	7535.8	8906.2	10329.0	11693.2	12570.9	12632.5	12672.6	11283.7
60°	4637.9	4730.3	5601.8	6775.1	8739.9	10861.7	12589.4	13544.1	13596.4	13488.6	11594.7
62.5°	3741.7	3834.1	4711.8	5768.1	8087.0	10969.5	13254.6	14409.4	14431.0	14138.4	11403.8
65°	2820.9	2882.5	3615.5	4520.9	6944.5	10396.7	13405.5	14948.4	14926.8	14326.3	10831.0
66°	2528.4	2580.7	3227.4	3997.3	6350.1	9873.2	13202.2	14991.5	14969.9	14187.7	10455.2
67.5°	2180.4	2195.8	2728.5	3270.5	5312.3	8761.5	12583.2	14794.4	14812.9	13805.8	9768.5
70°	1703.0	1699.9	2007.9	2275.8	3627.8	6233.1	10495.3	13553.3	13642.6	12364.6	8330.3
72.5°	1090.2	1053.2	1231.8	1392.0	2112.6	3618.5	7652.8	11046.5	11197.4	9713.1	6205.4
75°	649.8	612.8	656.0	696.0	1013.2	1740.0	4499.3	7517.3	7662.0	6227.0	3692.4
77.5°	486.6	471.2	474.3	440.4	449.6	652.9	2054.1	3972.7	4077.4	2549.9	1401.2
80°	372.6	332.6	311.0	326.4	295.6	258.7	763.7	1367.3	1432.0	603.6	292.6
82.5°	249.4	215.6	200.2	218.7	187.9	144.7	184.8	264.8	258.7	163.2	113.9
85°	129.3	110.9	110.9	110.9	95.5	70.8	80.1	107.8	107.8	86.2	67.8
87.5°	37.0	33.9	40.0	37.0	27.7	27.7	30.8	37.0	37.0	33.9	30.8
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°	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7	1382.7
2.5°	1379.7	1367.3	1333.5	1308.8	1284.2	1262.6	1238.0	1231.8	1219.5	1222.6	1216.4
5°	1388.9	1355.0	1296.5	1241.1	1198.0	1161.0	1114.8	1096.3	1071.7	1062.5	1056.3
7.5°	1401.2	1351.9	1265.7	1188.7	1114.8	1040.9	967.0	923.9	896.2	883.8	874.6
10°	1428.9	1364.3	1250.3	1130.2	1003.9	899.2	825.3	794.5	776.1	773.0	769.9
12.5°	1465.9	1382.7	1234.9	1056.3	890.0	791.5	745.3	736.0	732.9	732.9	729.9
15°	1521.3	1413.5	1210.3	970.1	800.7	732.9	711.4	696.0	689.8	689.8	689.8
17.5°	1576.8	1450.5	1173.3	880.8	739.1	696.0	674.4	665.2	659.0	662.1	659.0
20°	1647.6	1493.6	1124.1	803.8	699.1	665.2	643.6	634.4	631.3	631.3	631.3
22.5°	1727.7	1542.9	1062.5	745.3	665.2	634.4	612.8	603.6	597.4	600.5	600.5
25°	1835.4	1604.5	997.8	686.8	631.3	603.6	579.0	566.6	566.6	569.7	572.8
27.5°	1974.0	1678.4	933.1	649.8	600.5	572.8	545.1	532.8	535.9	542.0	542.0
30°	2177.3	1780.0	868.4	609.8	566.6	535.9	511.2	498.9	505.1	517.4	517.4
32.5°	2466.8	1946.3	813.0	563.6	517.4	483.5	458.9	449.6	465.0	489.7	489.7
35°	2984.1	2251.2	779.1	517.4	465.0	425.0	394.2	385.0	406.5	437.3	437.3
37.5°	3677.0	2740.8	791.5	477.3	421.9	375.7	341.8	329.5	344.9	372.6	381.9
40°	4450.0	3332.1	899.2	443.5	381.9	335.7	301.8	289.5	298.7	311.0	314.1
42.5°	5223.0	3960.4	1102.5	418.8	351.1	301.8	271.0	261.8	267.9	271.0	274.1
45°	5992.9	4582.4	1358.1	403.4	323.4	274.1	243.3	243.3	246.4	246.4	246.4
47.5°	6722.8	5189.1	1626.0	400.3	298.7	246.4	221.7	224.8	224.8	227.9	227.9
50°	7412.6	5731.1	1897.0	409.6	277.2	221.7	203.3	203.3	203.3	206.3	203.3
52.5°	7988.5	6205.4	2180.4	425.0	255.6	203.3	184.8	184.8	184.8	187.9	184.8
55°	8533.6	6636.5	2469.8	446.5	237.1	187.9	169.4	163.2	163.2	166.3	163.2
57.5°	8977.0	6922.9	2743.9	449.6	221.7	172.5	157.1	147.8	147.8	147.8	147.8
60°	8995.5	6756.6	2824.0	394.2	203.3	157.1	141.7	129.3	132.4	132.4	132.4
62.5°	8407.3	5882.0	2269.7	295.6	181.7	141.7	129.3	117.0	117.0	117.0	117.0
65°	7252.5	4576.3	1330.4	234.0	157.1	126.3	113.9	104.7	104.7	104.7	101.6
66°	6710.4	4012.7	1019.3	212.5	147.8	123.2	110.9	101.6	98.5	95.5	95.5
67.5°	5826.6	3172.0	637.5	187.9	135.5	113.9	101.6	92.4	89.3	86.2	86.2
70°	4388.4	2014.1	311.0	144.7	117.0	98.5	89.3	80.1	77.0	73.9	70.8
72.5°	3079.6	1179.5	163.2	110.9	95.5	86.2	77.0	67.8	64.7	61.6	61.6
75°	1740.0	569.7	107.8	80.1	77.0	70.8	64.7	55.4	52.4	52.4	52.4
77.5°	659.0	197.1	73.9	58.5	61.6	55.4	46.2	46.2	43.1	46.2	43.1
80°	172.5	86.2	46.2	43.1	46.2	40.0	33.9	37.0	37.0	37.0	37.0
82.5°	92.4	49.3	27.7	30.8	27.7	27.7	21.6	24.6	27.7	24.6	27.7
85°	64.7	24.6	15.4	15.4	12.3	12.3	9.2	12.3	15.4	12.3	12.3
87.5°	33.9	9.2	9.2	9.2	9.2	6.2	3.1	0.0	3.1	3.1	3.1
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)