

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: P399486

Luminaire Tested: **ARCH-L-PA3-150-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14356 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

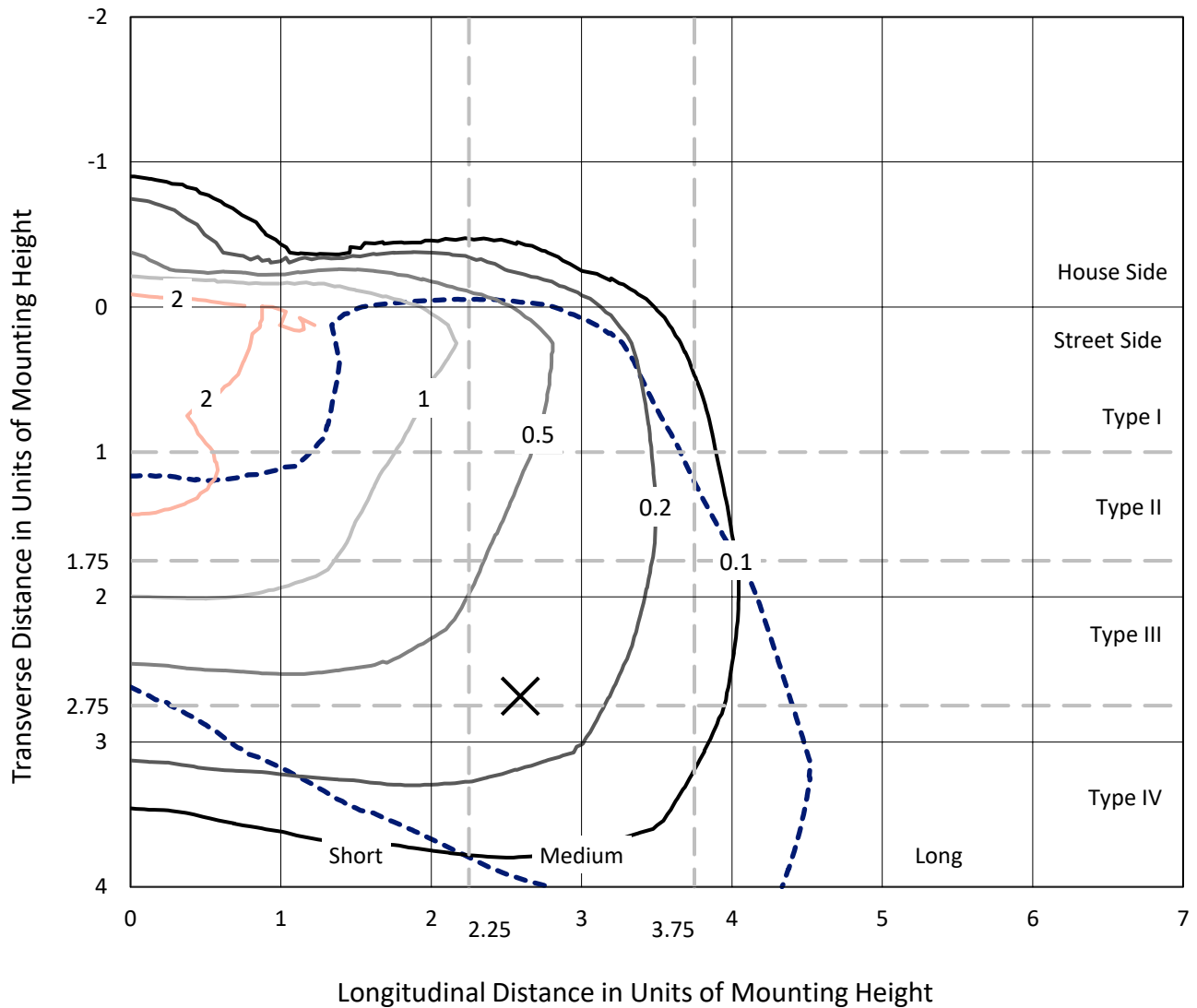
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

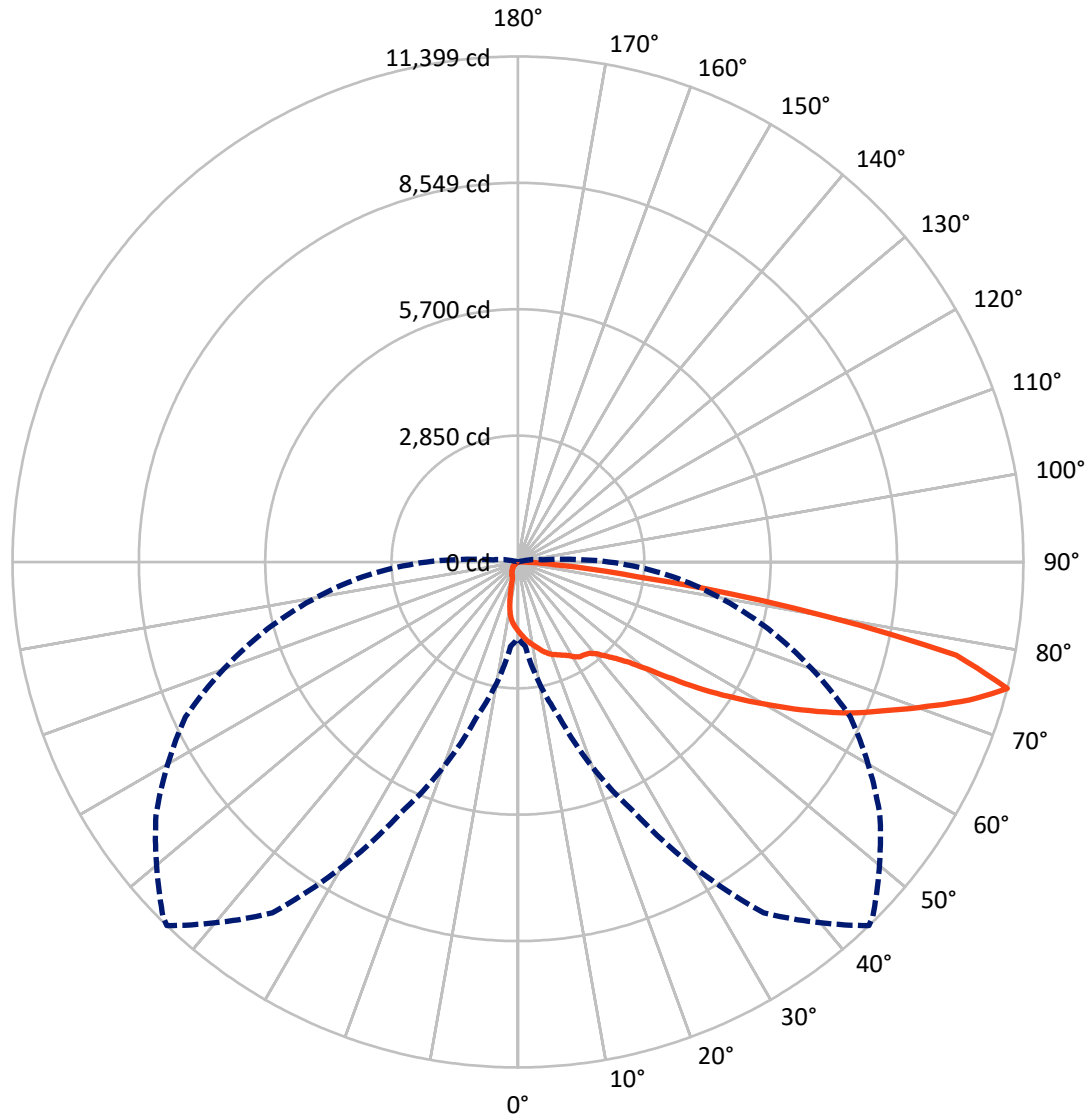
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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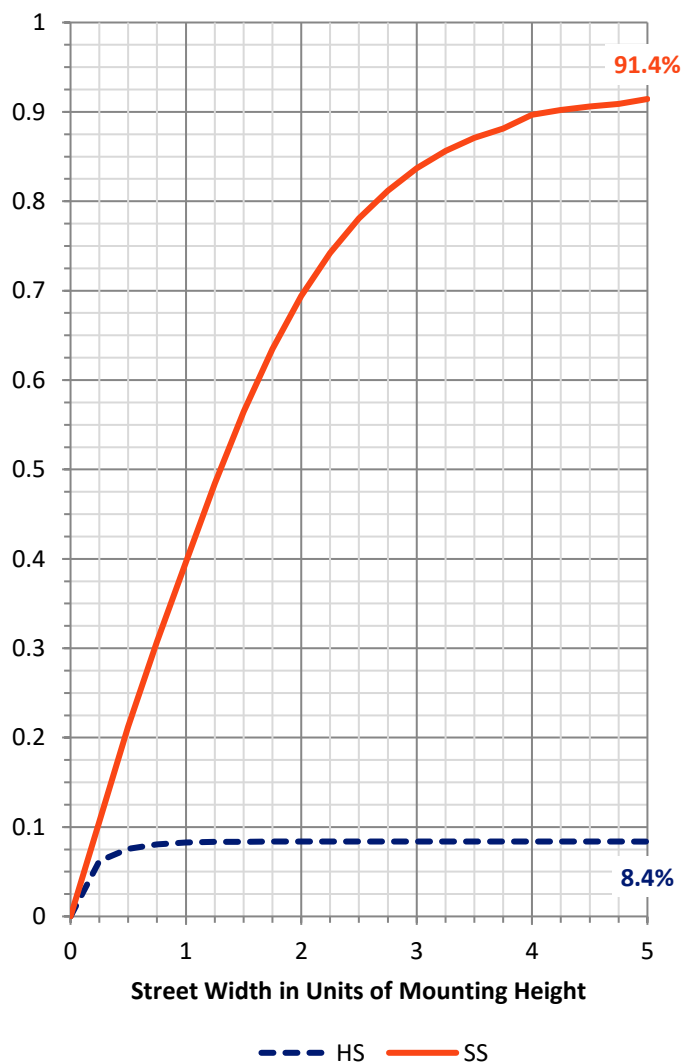
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1210.7	0.0	1210.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13145.3	0.0	13145.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	14356.0	0.0	14356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.0
10°-20°	412.9	2.9
20°-30°	681.5	4.7
30°-40°	989.1	6.9
40°-50°	1607.8	11.2
50°-60°	2834.3	19.7
60°-70°	4073.5	28.4
70°-80°	3262.0	22.7
80°-90°	347.5	2.4
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°	14356.0	100.0
0°-180°	14356.0	100.0

Coefficient of Utilization



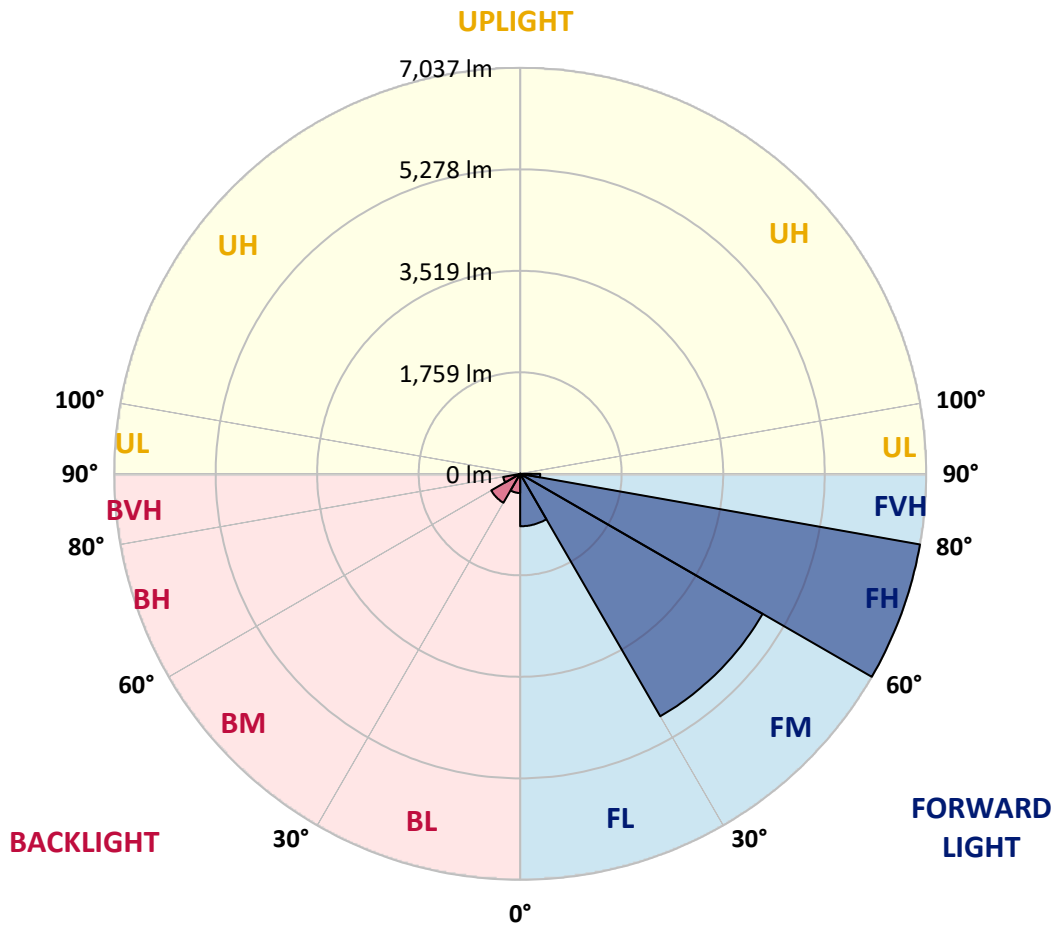
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.1	6.3			
FM (30°-60°)	4852.5	33.8			
FH (60°-80°)	7037.1	49.0			G3/7500
FVH (80°-90°)	346.7	2.4			G3/500
BL (0°-30°)	332.6	2.3	B1/500		
BM (30°-60°)	578.7	4.0	B1/1000		
BH (60°-80°)	298.5	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6
2.5°	1703.0	1700.3	1692.4	1679.1	1665.9	1652.6	1650.0	1628.8	1605.0	1586.4	1570.5
5°	1853.9	1851.3	1838.0	1808.9	1779.8	1745.3	1742.7	1692.4	1647.3	1597.0	1554.7
7.5°	2010.2	2004.9	1981.1	1936.0	1885.7	1832.7	1827.4	1753.3	1687.1	1620.9	1559.9
10°	2132.0	2126.7	2092.3	2039.3	1970.5	1904.2	1896.3	1819.5	1753.3	1668.5	1586.4
12.5°	2251.2	2240.6	2195.6	2137.3	2052.6	1989.0	1981.1	1901.6	1822.1	1734.7	1634.1
15°	2362.4	2349.2	2306.8	2232.7	2142.6	2081.7	2076.4	1991.6	1909.5	1808.9	1697.7
17.5°	2439.2	2433.9	2383.6	2301.5	2214.1	2163.8	2158.5	2071.1	1989.0	1883.1	1763.9
20°	2479.0	2479.0	2431.3	2341.2	2261.8	2227.4	2219.4	2137.3	2057.9	1957.2	1832.7
22.5°	2486.9	2494.9	2457.8	2359.8	2301.5	2272.4	2267.1	2195.6	2118.8	2026.1	1909.5
25°	2502.8	2502.8	2484.3	2378.3	2335.9	2328.0	2325.4	2261.8	2192.9	2100.2	1986.4
27.5°	2521.3	2521.3	2508.1	2404.8	2388.9	2386.3	2383.6	2354.5	2298.9	2190.3	2076.4
30°	2569.0	2571.7	2561.1	2457.8	2447.2	2476.3	2481.6	2465.7	2396.9	2261.8	2169.1
32.5°	2688.2	2664.4	2635.2	2494.9	2513.4	2550.5	2553.1	2521.3	2447.2	2338.6	2280.3
35°	2987.5	2847.1	2714.7	2526.6	2534.6	2571.7	2577.0	2574.3	2529.3	2436.6	2407.5
37.5°	3265.6	3066.9	2878.9	2600.8	2574.3	2614.0	2624.6	2669.7	2635.2	2571.7	2579.6
40°	3427.1	3350.3	3217.9	2804.7	2653.8	2714.7	2725.3	2794.1	2780.9	2754.4	2804.7
42.5°	3925.0	3930.3	3787.3	3109.3	2799.4	2897.4	2910.7	2966.3	2984.8	2998.1	3119.9
45°	4502.4	4520.9	4486.5	3657.5	3074.9	3106.7	3125.2	3199.3	3268.2	3353.0	3575.4
47.5°	5196.3	5180.4	5053.3	4327.6	3554.2	3376.8	3390.0	3533.1	3652.2	3837.6	4155.4
50°	5810.7	5850.5	5609.5	4952.6	4229.6	3803.2	3790.0	3930.3	4144.9	4404.4	4804.3
52.5°	6430.5	6372.2	6046.5	5572.4	5029.4	4383.2	4343.5	4420.3	4722.2	5029.4	5440.0
55°	6594.7	6600.0	6488.7	6250.4	5696.9	5087.7	5021.5	5016.2	5392.3	5601.5	6107.4
57.5°	6917.8	6931.0	6957.5	7005.2	6743.0	5792.2	5723.3	5649.2	6014.7	6136.5	6777.4
60°	7246.2	7262.1	7423.7	7680.6	7505.8	6552.3	6478.2	6303.4	6507.3	6671.5	7481.9
62.5°	7203.8	7315.1	7783.8	8295.0	8273.8	7386.6	7293.9	6872.8	7002.5	7145.6	8128.1
65°	6504.6	6623.8	7677.9	8464.5	9044.5	8210.3	8059.3	7460.7	7468.7	7640.8	8750.5
67.5°	5879.6	6009.4	7015.8	8393.0	9553.0	8949.2	8792.9	8051.3	7926.9	8212.9	9084.2
70°	5519.4	5649.2	6488.7	8170.5	9696.0	9767.6	9632.5	8726.7	8472.4	8734.6	8710.8
72.5°	4319.7	4523.6	5816.0	7746.8	9849.7	10644.2	10538.3	9582.2	8935.9	8189.1	6631.8
75°	1721.5	1909.5	3631.0	6234.5	9656.3	11399.0	11316.9	9966.2	8271.2	5847.8	3395.3
77.5°	519.1	556.2	1009.1	3082.8	7079.4	10106.6	10080.1	8379.8	5853.1	2714.7	927.0
80°	172.2	190.7	309.9	850.2	3231.1	6313.9	6433.1	5339.3	2659.1	622.4	188.0
82.5°	71.5	79.5	156.3	341.7	1144.1	2720.0	2680.2	2391.6	927.0	386.7	68.9
85°	18.5	23.8	71.5	196.0	418.5	937.6	985.2	802.5	524.4	320.5	21.2
87.5°	0.0	0.0	34.4	79.5	188.0	283.4	296.6	243.7	296.6	241.0	10.6
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°	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6	1562.6
2.5°	1557.3	1544.1	1520.2	1504.3	1483.1	1477.8	1467.3	1454.0	1451.4	1438.1	1440.8
5°	1530.8	1509.6	1467.3	1438.1	1403.7	1393.1	1374.6	1361.3	1350.7	1332.2	1334.8
7.5°	1525.5	1493.7	1435.5	1379.9	1324.2	1284.5	1228.9	1183.9	1146.8	1107.1	1115.0
10°	1544.1	1504.3	1422.2	1345.4	1244.8	1117.7	972.0	876.6	829.0	781.3	786.6
12.5°	1581.1	1533.5	1427.5	1311.0	1107.1	889.9	688.6	558.8	524.4	503.2	505.9
15°	1636.8	1578.5	1443.4	1244.8	921.7	643.6	458.2	402.6	415.8	423.8	423.8
17.5°	1695.0	1628.8	1456.7	1125.6	712.4	450.2	373.4	368.1	386.7	405.2	405.2
20°	1766.5	1681.8	1459.3	974.6	513.8	365.5	352.2	352.2	365.5	386.7	386.7
22.5°	1835.4	1740.0	1435.5	802.5	392.0	339.0	339.0	339.0	346.9	368.1	370.8
25°	1917.5	1811.6	1385.1	619.7	336.4	323.1	323.1	325.8	331.1	349.6	352.2
27.5°	2004.9	1885.7	1300.4	452.9	307.2	304.6	307.2	309.9	312.5	331.1	336.4
30°	2105.5	1967.8	1191.8	339.0	280.7	280.7	288.7	294.0	294.0	309.9	315.2
32.5°	2222.1	2076.4	1062.0	280.7	254.3	251.6	264.8	272.8	272.8	286.0	291.3
35°	2367.7	2187.6	905.8	249.0	233.1	227.8	233.1	246.3	251.6	262.2	264.8
37.5°	2561.1	2320.1	738.9	230.4	217.2	206.6	206.6	209.2	219.8	230.4	233.1
40°	2807.4	2465.7	574.7	217.2	201.3	190.7	182.7	180.1	177.4	185.4	190.7
42.5°	3117.2	2629.9	429.1	203.9	188.0	172.2	161.6	151.0	137.7	135.1	137.7
45°	3514.5	2831.2	317.8	193.3	180.1	156.3	137.7	119.2	95.3	87.4	90.0
47.5°	3983.3	3040.4	249.0	182.7	174.8	137.7	113.9	82.1	58.3	53.0	55.6
50°	4481.2	3241.7	211.9	169.5	164.2	119.2	82.1	50.3	34.4	34.4	37.1
52.5°	4905.0	3355.6	193.3	158.9	148.3	98.0	53.0	29.1	21.2	21.2	23.8
55°	5315.5	3416.5	180.1	148.3	127.1	68.9	29.1	18.5	13.2	13.2	13.2
57.5°	5739.2	3443.0	164.2	135.1	100.6	42.4	15.9	10.6	7.9	7.9	7.9
60°	6115.3	3392.7	140.4	111.2	66.2	21.2	7.9	7.9	5.3	2.6	2.6
62.5°	6430.5	3297.3	98.0	79.5	39.7	10.6	5.3	2.6	0.0	0.0	0.0
65°	6623.8	3143.7	63.6	53.0	23.8	7.9	2.6	0.0	0.0	0.0	0.0
67.5°	6568.2	2855.0	39.7	34.4	10.6	5.3	2.6	0.0	0.0	0.0	0.0
70°	5927.3	2341.2	29.1	21.2	7.9	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4272.0	1583.8	21.2	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2055.2	564.1	13.2	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	503.2	124.5	7.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.2	23.8	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.1	10.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	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)