

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: P399482

Luminaire Tested: **ARCH-L-PA3-150-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
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-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13760 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

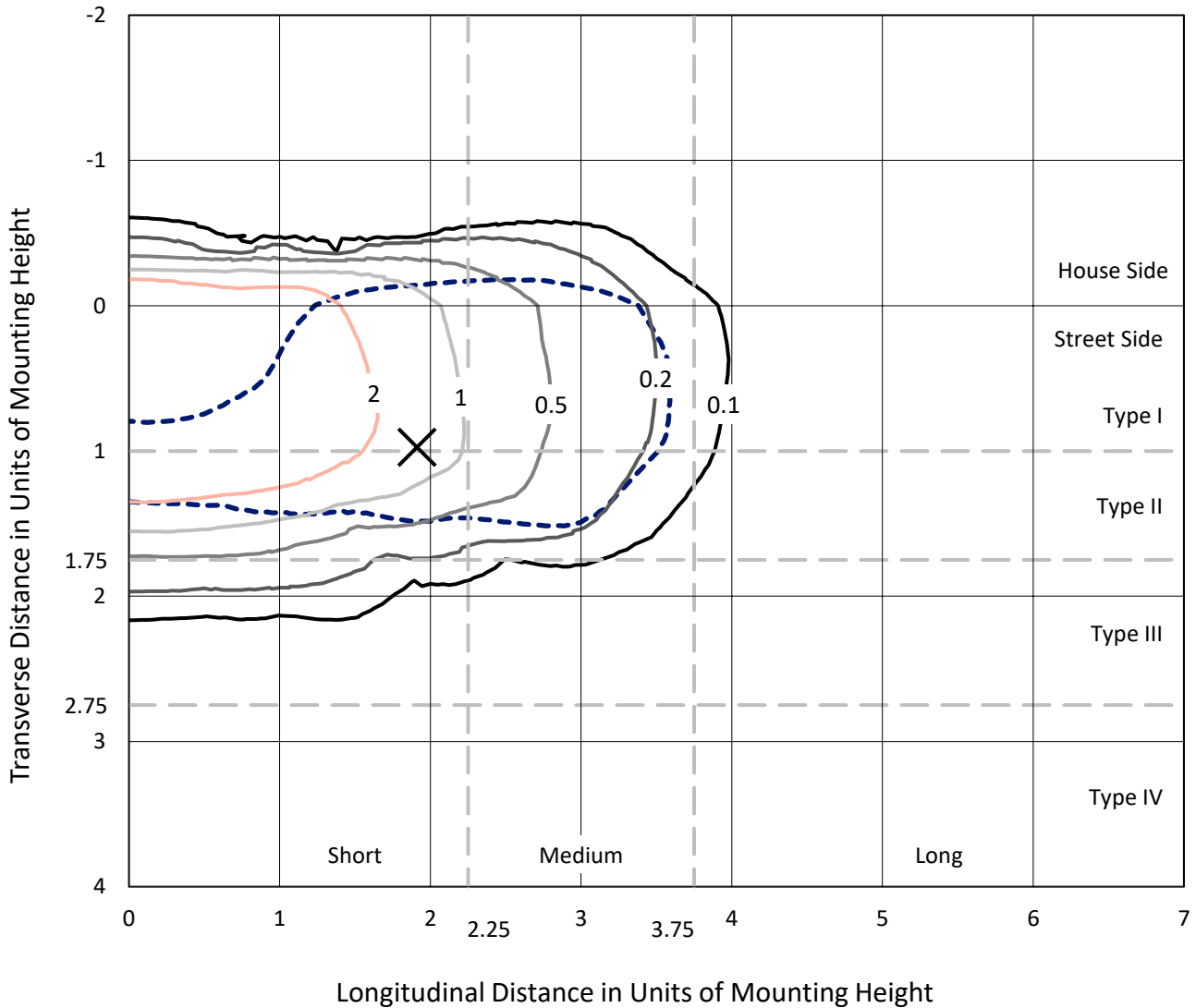
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

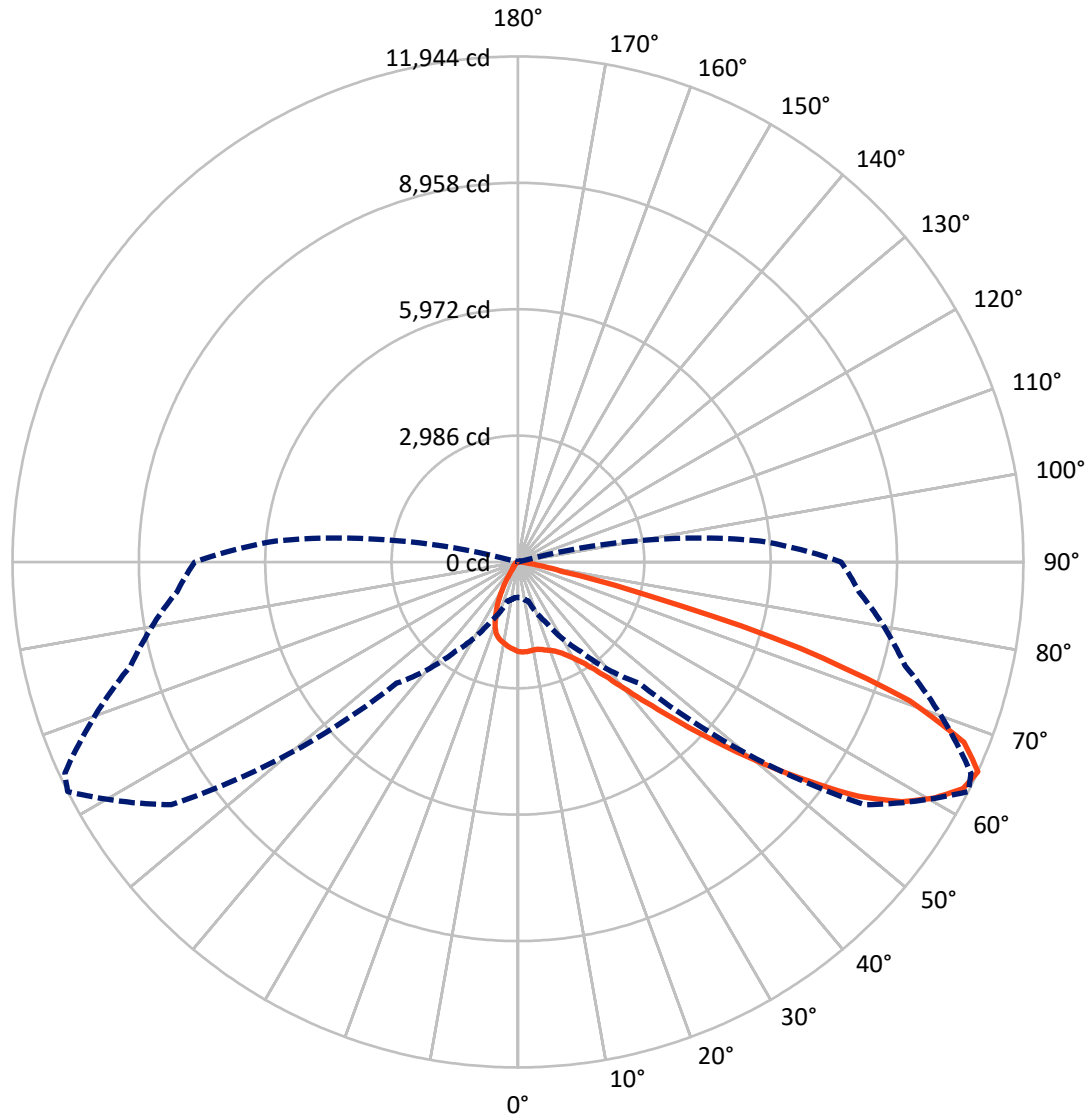
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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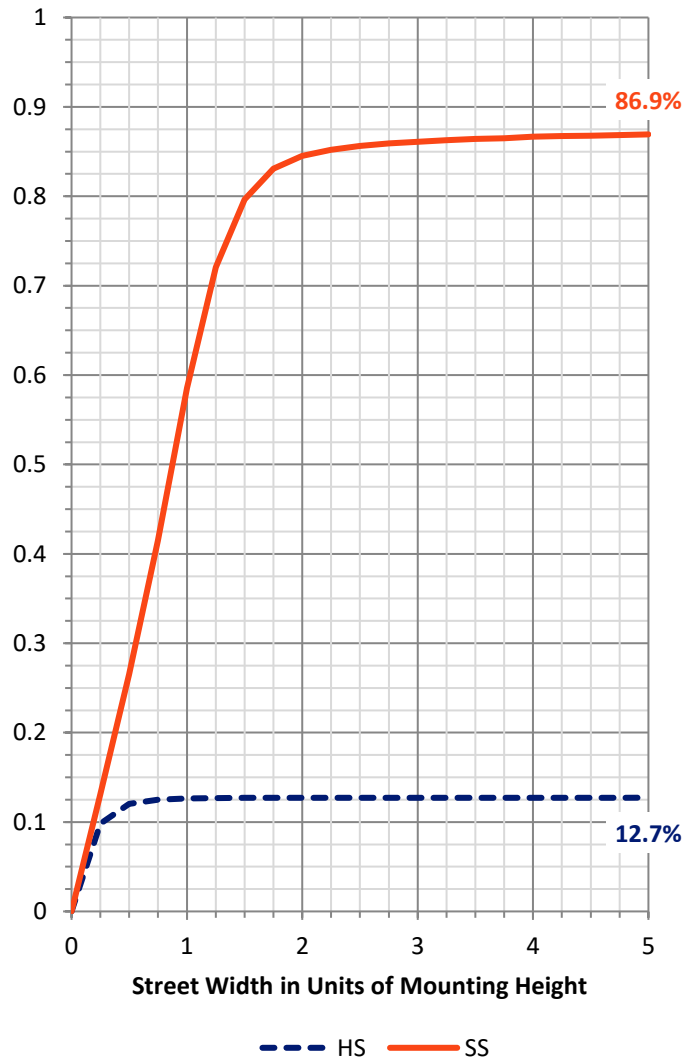
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1770.9	0.0	1770.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	11989.1	0.0	11989.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	13760.0	0.0	13760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	1.4
10°-20°	477.1	3.5
20°-30°	707.2	5.1
30°-40°	1313.1	9.5
40°-50°	2781.8	20.2
50°-60°	3846.5	28.0
60°-70°	3079.3	22.4
70°-80°	1279.4	9.3
80°-90°	82.1	0.6
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°	13760.0	100.0
0°-180°	13760.0	100.0

Coefficient of Utilization

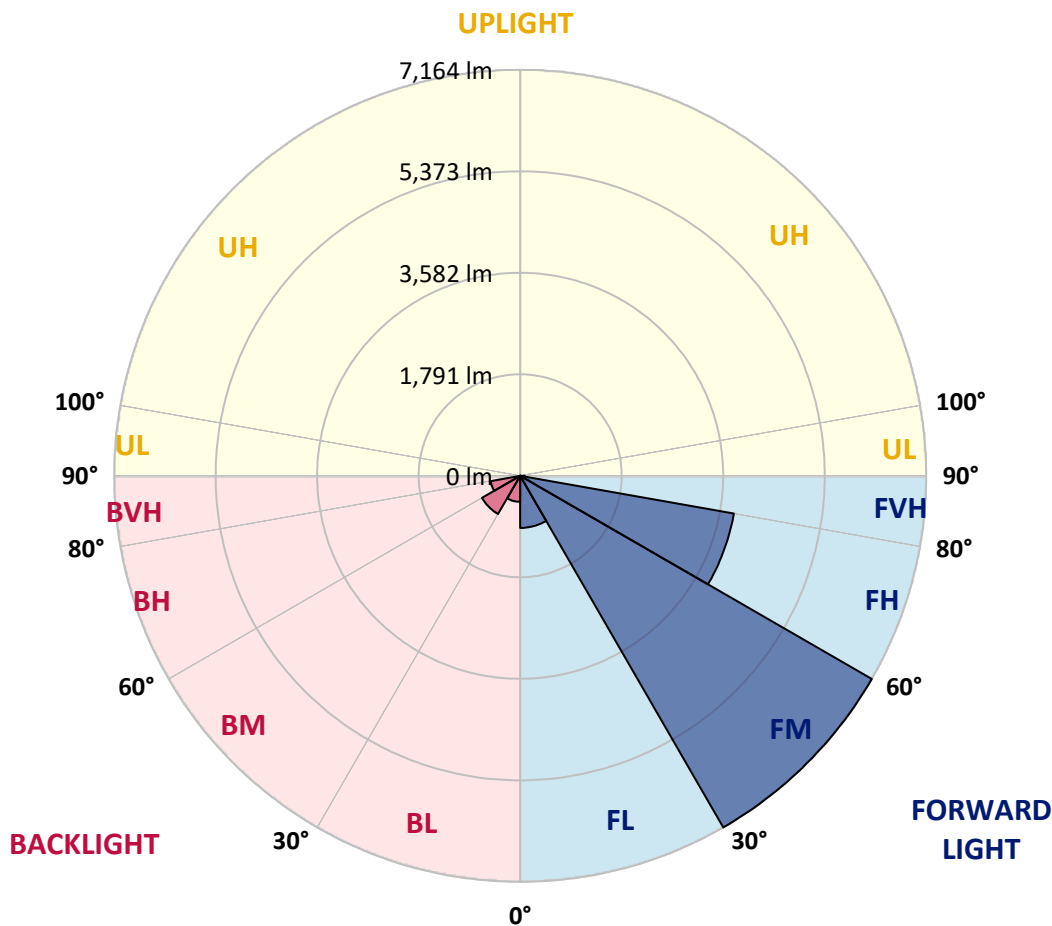


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.8	6.7			
FM (30°-60°)	7163.5	52.1			
FH (60°-80°)	3828.3	27.8			G2/5000
FVH (80°-90°)	78.4	0.6			G1/100
BL (0°-30°)	459.0	3.3	B1/500		
BM (30°-60°)	777.9	5.7	B1/1000		
BH (60°-80°)	530.3	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7
2.5°	2156.1	2150.9	2145.7	2143.1	2143.1	2140.5	2130.1	2127.5	2122.3	2117.1	2111.9
5°	2135.3	2127.5	2124.9	2127.5	2130.1	2135.3	2130.1	2130.1	2124.9	2119.7	2109.3
7.5°	2083.4	2078.2	2080.8	2088.6	2091.2	2109.3	2111.9	2119.7	2119.7	2114.5	2106.7
10°	2021.0	2018.4	2018.4	2031.4	2044.4	2070.4	2088.6	2109.3	2111.9	2111.9	2099.0
12.5°	1974.3	1971.7	1979.5	1995.0	2021.0	2054.8	2086.0	2117.1	2122.3	2124.9	2104.1
15°	1945.7	1945.7	1956.1	1987.3	2023.6	2070.4	2106.7	2148.3	2153.5	2150.9	2122.3
17.5°	1919.7	1922.3	1943.1	1995.0	2036.6	2099.0	2143.1	2189.9	2192.5	2189.9	2143.1
20°	1909.3	1914.5	1945.7	2013.2	2060.0	2130.1	2187.3	2234.0	2236.6	2226.2	2163.9
22.5°	1937.9	1940.5	1979.5	2052.2	2096.4	2174.3	2247.0	2291.2	2293.8	2278.2	2195.1
25°	2036.6	2036.6	2070.4	2132.7	2171.7	2249.6	2327.6	2379.5	2379.5	2361.3	2265.2
27.5°	2267.8	2247.0	2239.2	2257.4	2270.4	2353.5	2436.7	2501.6	2499.0	2473.0	2356.1
30°	2714.6	2662.7	2579.5	2486.0	2439.3	2496.4	2574.3	2657.5	2654.9	2613.3	2467.8
32.5°	3465.4	3390.0	3192.6	2945.8	2745.8	2680.8	2753.6	2844.5	2847.1	2797.7	2647.1
35°	4517.4	4397.9	4044.6	3701.7	3244.5	2997.8	3018.5	3117.3	3148.4	3122.5	2948.4
37.5°	5530.5	5421.4	5083.7	4608.3	3987.5	3483.5	3395.2	3480.9	3517.3	3517.3	3332.9
40°	6551.4	6424.1	6125.4	5647.4	4992.8	4242.1	3925.1	3995.3	4034.3	4042.0	3800.5
42.5°	7369.7	7286.6	7058.0	6686.5	6073.5	5572.1	4688.9	4649.9	4686.3	4657.7	4343.4
45°	7936.0	7871.1	7712.6	7572.3	7273.6	7021.6	5709.8	5447.4	5470.8	5372.1	4953.8
47.5°	8052.9	7980.2	7946.4	8141.2	8354.3	8416.6	6964.5	6395.6	6372.2	6154.0	5587.7
50°	7543.8	7551.6	7676.2	8232.2	9120.6	9681.7	8419.2	7465.8	7380.1	6894.3	6177.4
52.5°	6444.9	6569.6	6883.9	7785.4	9354.4	10601.3	9873.9	8601.0	8468.6	7613.9	6619.0
55°	5042.2	5203.2	5720.2	6756.7	8866.0	11011.7	11100.0	9780.4	9479.1	8154.2	6961.9
57.5°	3748.5	3797.9	4400.5	5346.1	7710.0	10609.1	11728.7	10689.6	10302.5	8585.4	7302.2
60°	2335.3	2366.5	3003.0	4070.6	5839.7	9120.6	11728.7	11315.6	10946.8	8972.5	7613.9
62.5°	1452.1	1462.5	1701.5	2789.9	3969.3	6764.4	11242.9	11801.4	11505.3	9250.5	7881.5
65°	836.5	846.9	958.6	1576.8	2582.1	4049.8	10001.2	11944.3	11811.8	9471.3	8089.3
67.5°	610.5	615.7	659.8	885.8	1688.5	2080.8	7512.6	11370.2	11536.5	9580.4	8084.1
70°	529.9	537.7	594.9	691.0	1218.3	1278.1	3823.8	9819.4	10284.4	9424.5	7842.5
72.5°	407.8	418.2	504.0	649.4	893.6	919.6	1384.6	6987.9	7691.8	8450.4	7180.1
75°	280.6	290.9	376.7	535.1	737.8	688.4	761.1	3216.0	4057.6	5668.2	5465.6
77.5°	179.2	181.8	236.4	389.7	636.4	488.4	522.1	1049.5	1472.9	2563.9	2579.5
80°	119.5	122.1	145.5	252.0	436.4	452.0	322.1	485.8	532.5	748.1	519.5
82.5°	72.7	72.7	98.7	158.5	265.0	374.1	210.4	254.6	272.8	288.3	135.1
85°	28.6	28.6	59.7	103.9	166.3	174.0	132.5	148.1	155.9	168.9	62.3
87.5°	7.8	7.8	33.8	57.1	72.7	80.5	80.5	72.7	77.9	96.1	31.2
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°	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7	2119.7
2.5°	2109.3	2101.6	2091.2	2080.8	2070.4	2062.6	2054.8	2054.8	2049.6	2041.8	2036.6
5°	2104.1	2091.2	2067.8	2049.6	2021.0	2000.2	1984.7	1971.7	1963.9	1945.7	1943.1
7.5°	2096.4	2080.8	2047.0	2010.6	1963.9	1927.5	1891.1	1865.2	1839.2	1818.4	1813.2
10°	2083.4	2065.2	2015.8	1963.9	1898.9	1831.4	1745.7	1647.0	1556.0	1504.1	1488.5
12.5°	2083.4	2060.0	1995.0	1924.9	1831.4	1665.1	1446.9	1228.7	1059.9	984.5	963.8
15°	2096.4	2065.2	1979.5	1883.3	1709.3	1371.6	1018.3	730.0	545.5	488.4	475.4
17.5°	2109.3	2065.2	1956.1	1826.2	1485.9	994.9	579.3	384.5	324.7	311.7	311.7
20°	2114.5	2060.0	1924.9	1719.7	1187.2	618.3	345.5	288.3	265.0	257.2	257.2
22.5°	2135.3	2062.6	1901.5	1566.4	862.4	363.7	272.8	241.6	218.2	210.4	210.4
25°	2187.3	2093.8	1906.7	1371.6	553.3	275.4	231.2	200.0	176.6	166.3	166.3
27.5°	2270.4	2163.9	1935.3	1145.6	348.1	236.4	194.8	161.1	142.9	132.5	132.5
30°	2363.9	2241.8	1948.3	885.8	259.8	200.0	158.5	127.3	114.3	106.5	103.9
32.5°	2527.6	2376.9	1937.9	607.9	213.0	168.9	127.3	101.3	90.9	88.3	88.3
35°	2789.9	2613.3	1917.1	381.9	176.6	135.1	101.3	83.1	75.3	72.7	70.1
37.5°	3145.8	2958.8	1854.8	252.0	145.5	106.5	83.1	70.1	62.3	59.7	59.7
40°	3579.7	3353.6	1735.3	192.2	124.7	85.7	70.1	59.7	54.6	52.0	52.0
42.5°	4075.8	3792.7	1545.6	166.3	103.9	72.7	59.7	49.4	46.8	44.2	44.2
45°	4618.7	4252.5	1283.3	148.1	88.3	59.7	49.4	44.2	39.0	39.0	36.4
47.5°	5195.4	4714.9	987.1	129.9	75.3	52.0	44.2	36.4	33.8	31.2	31.2
50°	5751.3	5127.9	693.6	111.7	62.3	44.2	36.4	31.2	28.6	26.0	26.0
52.5°	6143.6	5377.3	491.0	96.1	52.0	39.0	28.6	23.4	20.8	20.8	20.8
55°	6457.9	5533.1	342.9	80.5	44.2	33.8	23.4	18.2	18.2	15.6	15.6
57.5°	6754.1	5634.4	252.0	67.5	36.4	26.0	18.2	13.0	13.0	10.4	10.4
60°	7060.6	5689.0	192.2	54.6	31.2	20.8	13.0	10.4	7.8	7.8	7.8
62.5°	7369.7	5722.8	148.1	44.2	26.0	15.6	10.4	7.8	5.2	2.6	2.6
65°	7639.9	5733.2	114.3	33.8	20.8	10.4	7.8	2.6	0.0	0.0	0.0
67.5°	7720.4	5613.7	88.3	26.0	15.6	7.8	5.2	0.0	0.0	0.0	0.0
70°	7502.2	5296.7	67.5	20.8	13.0	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	6657.9	4442.1	52.0	13.0	10.4	5.2	2.6	0.0	0.0	0.0	0.0
75°	4764.2	2369.1	36.4	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	2192.5	917.0	26.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
80°	428.6	228.6	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.7	39.0	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.8	13.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	2.6	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)