

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: P399491

Luminaire Tested: **ARCH-L-PA3-150-730-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399491
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-PA3-150-730-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 14984 lumens
Efficiency: N/A
Efficacy: 97.9 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

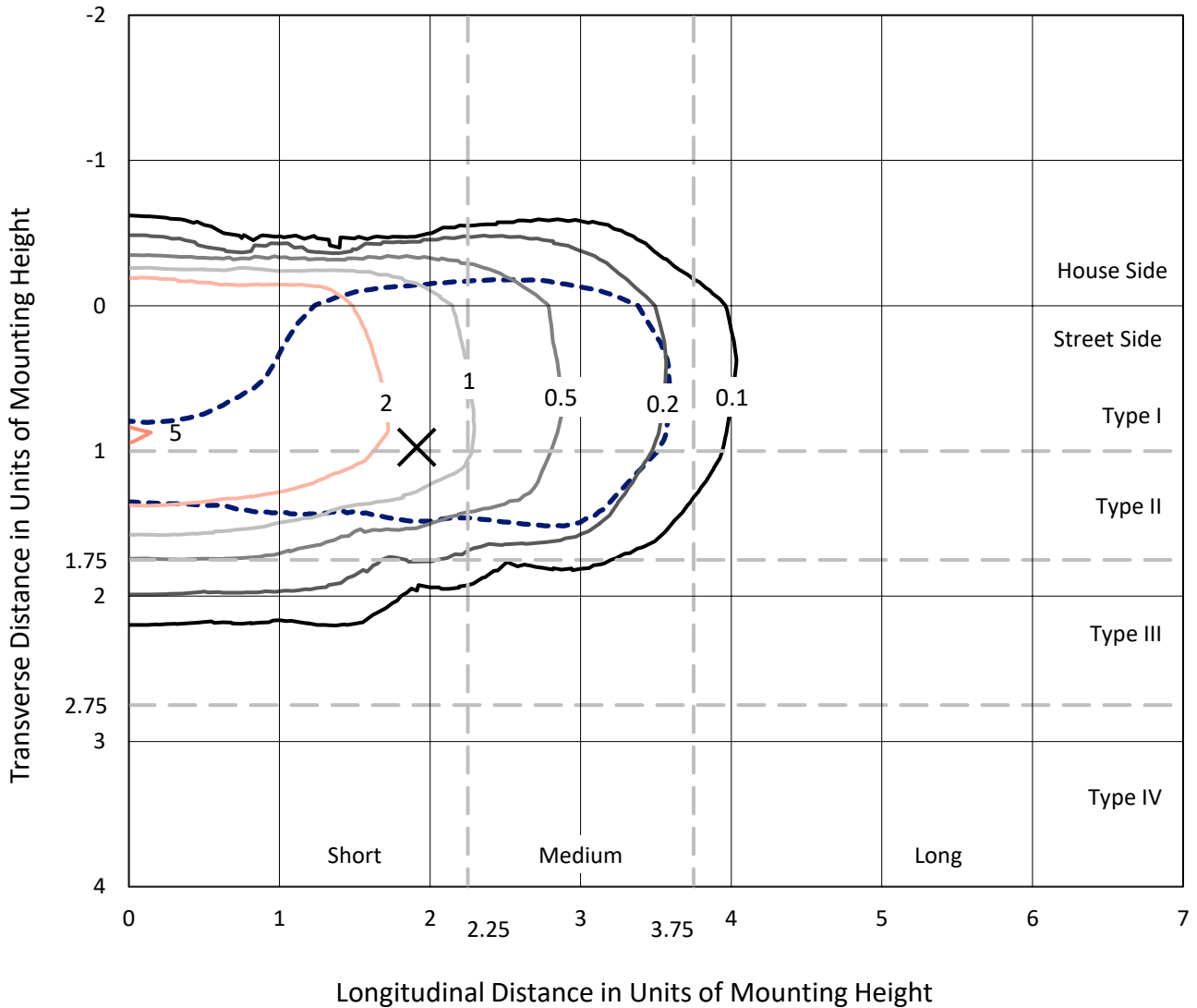
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

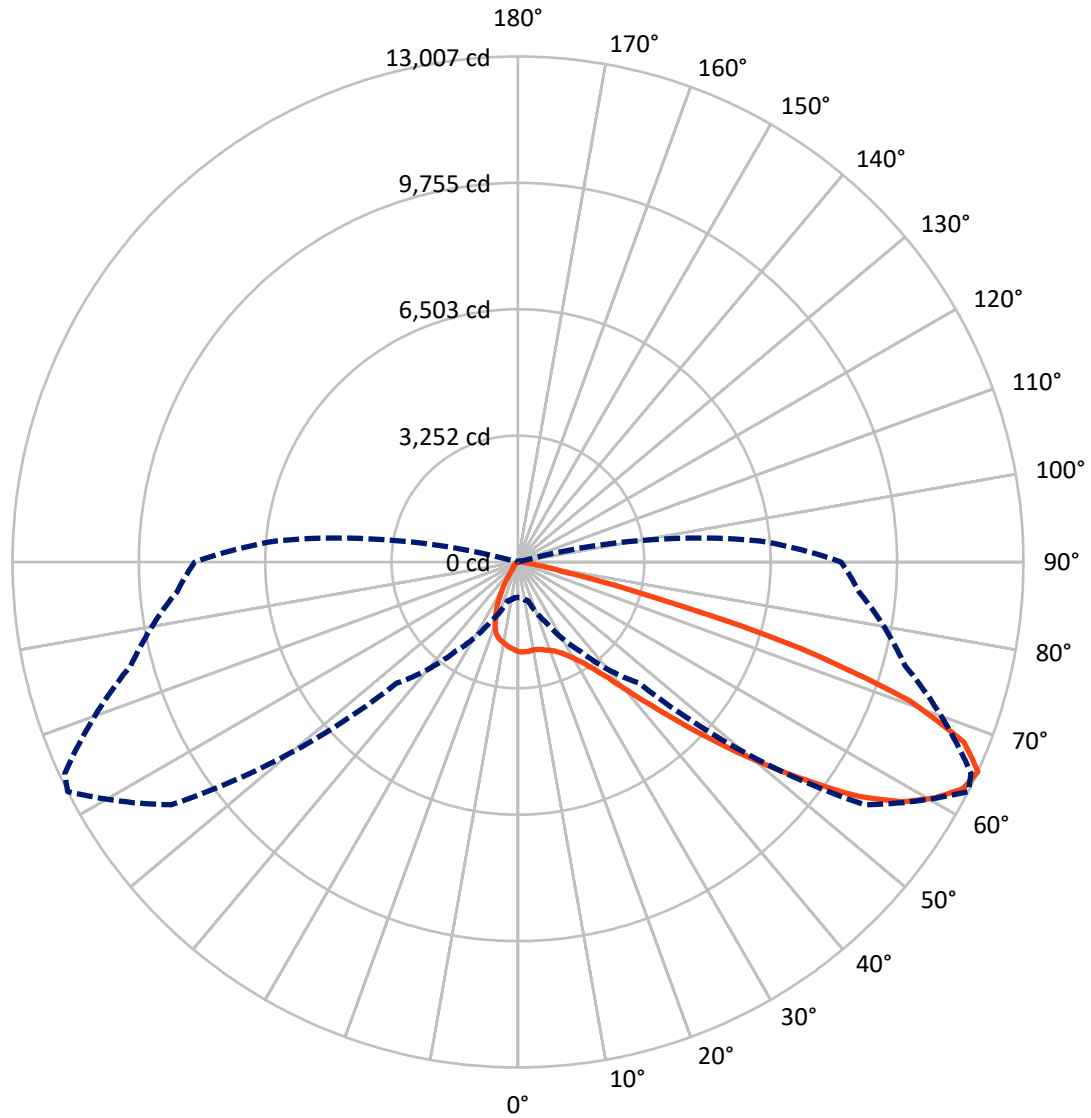
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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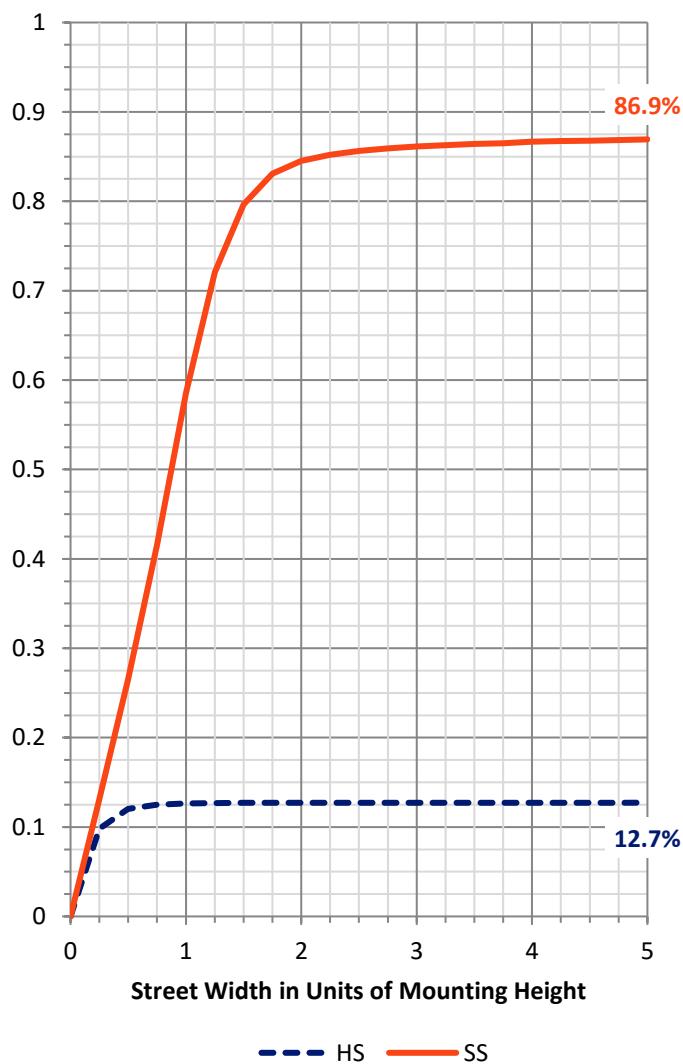
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.4	0.0	1928.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13055.6	0.0	13055.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	14984.0	0.0	14984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.6	1.4
10°-20°	519.6	3.5
20°-30°	770.1	5.1
30°-40°	1429.9	9.5
40°-50°	3029.3	20.2
50°-60°	4188.7	28.0
60°-70°	3353.2	22.4
70°-80°	1393.2	9.3
80°-90°	89.5	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°	14984.0	100.0
0°-180°	14984.0	100.0

Coefficient of Utilization

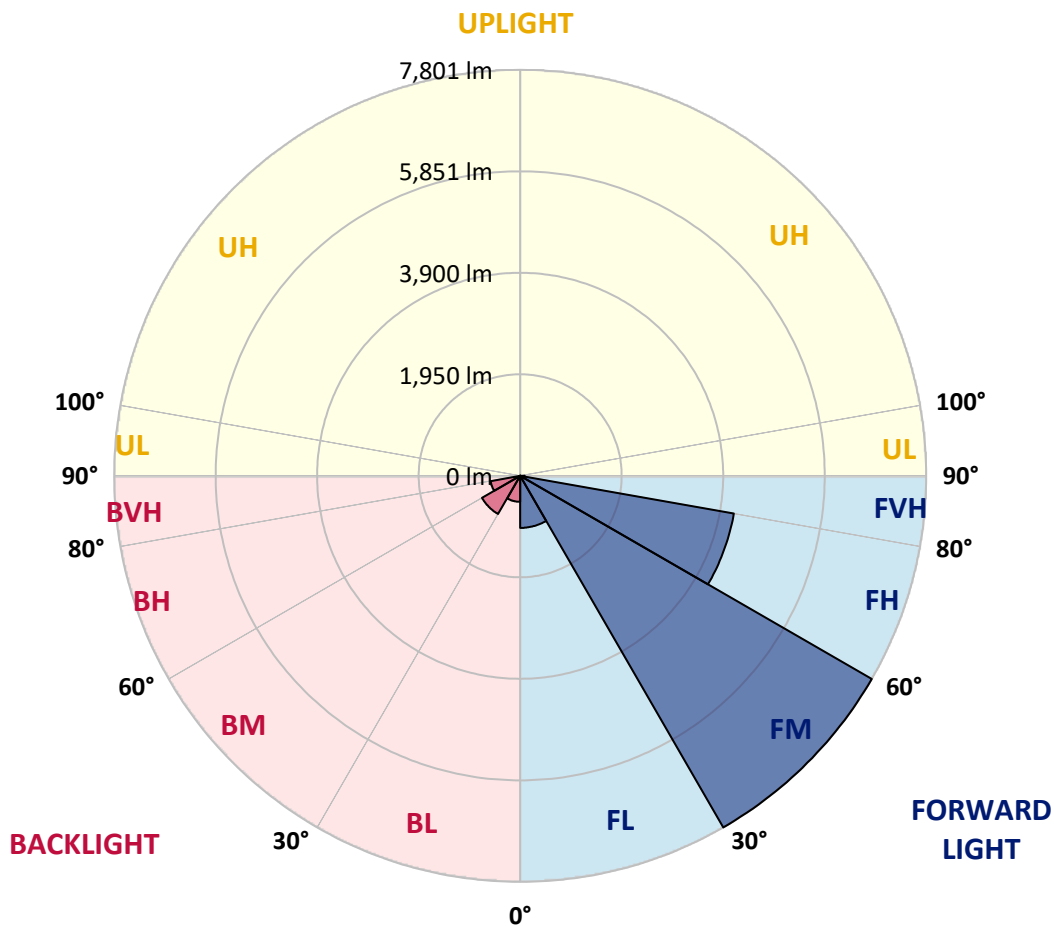


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.6	6.7			
FM (30°-60°)	7800.7	52.1			
FH (60°-80°)	4168.9	27.8			G2/5000
FVH (80°-90°)	85.4	0.6			G1/100
BL (0°-30°)	499.8	3.3	B1/500		
BM (30°-60°)	847.1	5.7	B1/1000		
BH (60°-80°)	577.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2347.9	2342.2	2336.6	2333.8	2333.8	2330.9	2319.6	2316.8	2311.1	2305.5	2299.8
5°	2325.3	2316.8	2314.0	2316.8	2319.6	2325.3	2319.6	2319.6	2314.0	2308.3	2297.0
7.5°	2268.7	2263.0	2265.9	2274.3	2277.2	2297.0	2299.8	2308.3	2308.3	2302.6	2294.1
10°	2200.8	2198.0	2198.0	2212.1	2226.3	2254.5	2274.3	2297.0	2299.8	2299.8	2285.7
12.5°	2149.9	2147.1	2155.5	2172.5	2200.8	2237.6	2271.5	2305.5	2311.1	2314.0	2291.3
15°	2118.8	2118.8	2130.1	2164.0	2203.6	2254.5	2294.1	2339.4	2345.1	2342.2	2311.1
17.5°	2090.5	2093.3	2115.9	2172.5	2217.8	2285.7	2333.8	2384.7	2387.5	2384.7	2333.8
20°	2079.2	2084.8	2118.8	2192.3	2243.2	2319.6	2381.8	2432.8	2435.6	2424.3	2356.4
22.5°	2110.3	2113.1	2155.5	2234.7	2282.8	2367.7	2446.9	2495.0	2497.8	2480.8	2390.3
25°	2217.8	2217.8	2254.5	2322.4	2364.9	2449.7	2534.6	2591.2	2591.2	2571.4	2466.7
27.5°	2469.5	2446.9	2438.4	2458.2	2472.4	2562.9	2653.4	2724.1	2721.3	2693.0	2565.7
30°	2956.1	2899.5	2809.0	2707.2	2656.2	2718.5	2803.3	2893.9	2891.0	2845.8	2687.4
32.5°	3773.6	3691.6	3476.6	3207.8	2990.0	2919.3	2998.5	3097.5	3100.4	3046.6	2882.5
35°	4919.3	4789.1	4404.4	4031.0	3533.2	3264.4	3287.1	3394.5	3428.5	3400.2	3210.7
37.5°	6022.5	5903.7	5535.9	5018.3	4342.2	3793.4	3697.2	3790.6	3830.2	3830.2	3629.3
40°	7134.2	6995.6	6670.3	6149.8	5436.9	4619.4	4274.3	4350.7	4393.1	4401.6	4138.5
42.5°	8025.3	7934.8	7685.8	7281.3	6613.7	6067.8	5106.0	5063.5	5103.1	5072.0	4729.7
45°	8642.0	8571.2	8398.7	8245.9	7920.6	7646.2	6217.7	5932.0	5957.4	5849.9	5394.5
47.5°	8769.3	8690.0	8653.3	8865.4	9097.4	9165.3	7584.0	6964.5	6939.0	6701.4	6084.7
50°	8214.8	8223.3	8359.1	8964.4	9931.9	10542.9	9168.1	8129.9	8036.6	7507.6	6726.9
52.5°	7018.2	7154.0	7496.3	8477.9	10186.5	11544.3	10752.2	9366.1	9221.9	8291.2	7207.8
55°	5490.7	5666.1	6229.0	7357.7	9654.7	11991.2	12087.4	10650.4	10322.3	8879.6	7581.2
57.5°	4081.9	4135.7	4792.0	5821.7	8395.9	11552.8	12772.0	11640.5	11219.0	9349.2	7951.7
60°	2543.1	2577.0	3270.1	4432.7	6359.1	9931.9	12772.0	12322.2	11920.5	9770.6	8291.2
62.5°	1581.3	1592.6	1852.9	3038.1	4322.4	7366.2	12243.0	12851.2	12528.7	10073.3	8582.6
65°	910.9	922.2	1043.8	1717.1	2811.8	4410.1	10890.8	13006.8	12862.5	10313.8	8808.9
67.5°	664.8	670.4	718.5	964.6	1838.7	2265.9	8180.9	12381.6	12562.7	10432.6	8803.2
70°	577.1	585.6	647.8	752.5	1326.7	1391.8	4164.0	10692.8	11199.2	10262.9	8540.1
72.5°	444.1	455.4	548.8	707.2	973.1	1001.4	1507.7	7609.4	8376.0	9202.1	7818.8
75°	305.5	316.8	410.2	582.7	803.4	749.6	828.8	3502.0	4418.6	6172.4	5951.8
77.5°	195.2	198.0	257.4	424.3	693.1	531.8	568.6	1142.8	1603.9	2792.0	2809.0
80°	130.1	133.0	158.4	274.4	475.2	492.2	350.8	529.0	579.9	814.7	565.8
82.5°	79.2	79.2	107.5	172.6	288.5	407.3	229.1	277.2	297.0	314.0	147.1
85°	31.1	31.1	65.1	113.2	181.0	189.5	144.3	161.2	169.7	183.9	67.9
87.5°	8.5	8.5	36.8	62.2	79.2	87.7	87.7	79.2	84.9	104.7	33.9
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°	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3	2308.3
2.5°	2297.0	2288.5	2277.2	2265.9	2254.5	2246.1	2237.6	2237.6	2231.9	2223.4	2217.8
5°	2291.3	2277.2	2251.7	2231.9	2200.8	2178.2	2161.2	2147.1	2138.6	2118.8	2115.9
7.5°	2282.8	2265.9	2229.1	2189.5	2138.6	2099.0	2059.4	2031.1	2002.8	1980.2	1974.5
10°	2268.7	2248.9	2195.1	2138.6	2067.8	1994.3	1900.9	1793.5	1694.4	1637.9	1620.9
12.5°	2268.7	2243.2	2172.5	2096.1	1994.3	1813.3	1575.6	1338.0	1154.1	1072.1	1049.5
15°	2282.8	2248.9	2155.5	2050.9	1861.3	1493.6	1108.9	794.9	594.0	531.8	517.7
17.5°	2297.0	2248.9	2130.1	1988.6	1618.1	1083.4	630.8	418.7	353.6	339.5	339.5
20°	2302.6	2243.2	2096.1	1872.7	1292.8	673.3	376.2	314.0	288.5	280.1	280.1
22.5°	2325.3	2246.1	2070.7	1705.8	939.2	396.0	297.0	263.1	237.6	229.1	229.1
25°	2381.8	2280.0	2076.3	1493.6	602.5	299.9	251.8	217.8	192.4	181.0	181.0
27.5°	2472.4	2356.4	2107.4	1247.5	379.1	257.4	212.2	175.4	155.6	144.3	144.3
30°	2574.2	2441.2	2121.6	964.6	282.9	217.8	172.6	138.6	124.5	116.0	113.2
32.5°	2752.4	2588.3	2110.3	661.9	232.0	183.9	138.6	110.3	99.0	96.2	96.2
35°	3038.1	2845.8	2087.6	415.8	192.4	147.1	110.3	90.5	82.0	79.2	76.4
37.5°	3425.7	3222.0	2019.8	274.4	158.4	116.0	90.5	76.4	67.9	65.1	65.1
40°	3898.1	3652.0	1889.6	209.3	135.8	93.4	76.4	65.1	59.4	56.6	56.6
42.5°	4438.4	4130.0	1683.1	181.0	113.2	79.2	65.1	53.7	50.9	48.1	48.1
45°	5029.6	4630.7	1397.4	161.2	96.2	65.1	53.7	48.1	42.4	42.4	39.6
47.5°	5657.6	5134.3	1074.9	141.4	82.0	56.6	48.1	39.6	36.8	33.9	33.9
50°	6262.9	5584.0	755.3	121.6	67.9	48.1	39.6	33.9	31.1	28.3	28.3
52.5°	6690.1	5855.6	534.6	104.7	56.6	42.4	31.1	25.5	22.6	22.6	22.6
55°	7032.4	6025.3	373.4	87.7	48.1	36.8	25.5	19.8	19.8	17.0	17.0
57.5°	7354.9	6135.6	274.4	73.5	39.6	28.3	19.8	14.1	14.1	11.3	11.3
60°	7688.7	6195.1	209.3	59.4	33.9	22.6	14.1	11.3	8.5	8.5	8.5
62.5°	8025.3	6231.8	161.2	48.1	28.3	17.0	11.3	8.5	5.7	2.8	2.8
65°	8319.5	6243.1	124.5	36.8	22.6	11.3	8.5	2.8	0.0	0.0	0.0
67.5°	8407.2	6113.0	96.2	28.3	17.0	8.5	5.7	0.0	0.0	0.0	0.0
70°	8169.5	5767.9	73.5	22.6	14.1	5.7	2.8	0.0	0.0	0.0	0.0
72.5°	7250.2	4837.2	56.6	14.1	11.3	5.7	2.8	0.0	0.0	0.0	0.0
75°	5188.0	2579.9	39.6	11.3	8.5	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	2387.5	998.6	28.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
80°	466.8	248.9	11.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	107.5	42.4	5.7	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.8	14.1	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	5.7	2.8	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)