

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: P237428

Luminaire Tested: **ARCH-L-AF72-150-D-U-T4W-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T4W-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 13972.1 lumens
Efficiency: N/A
Efficacy: 91.3 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

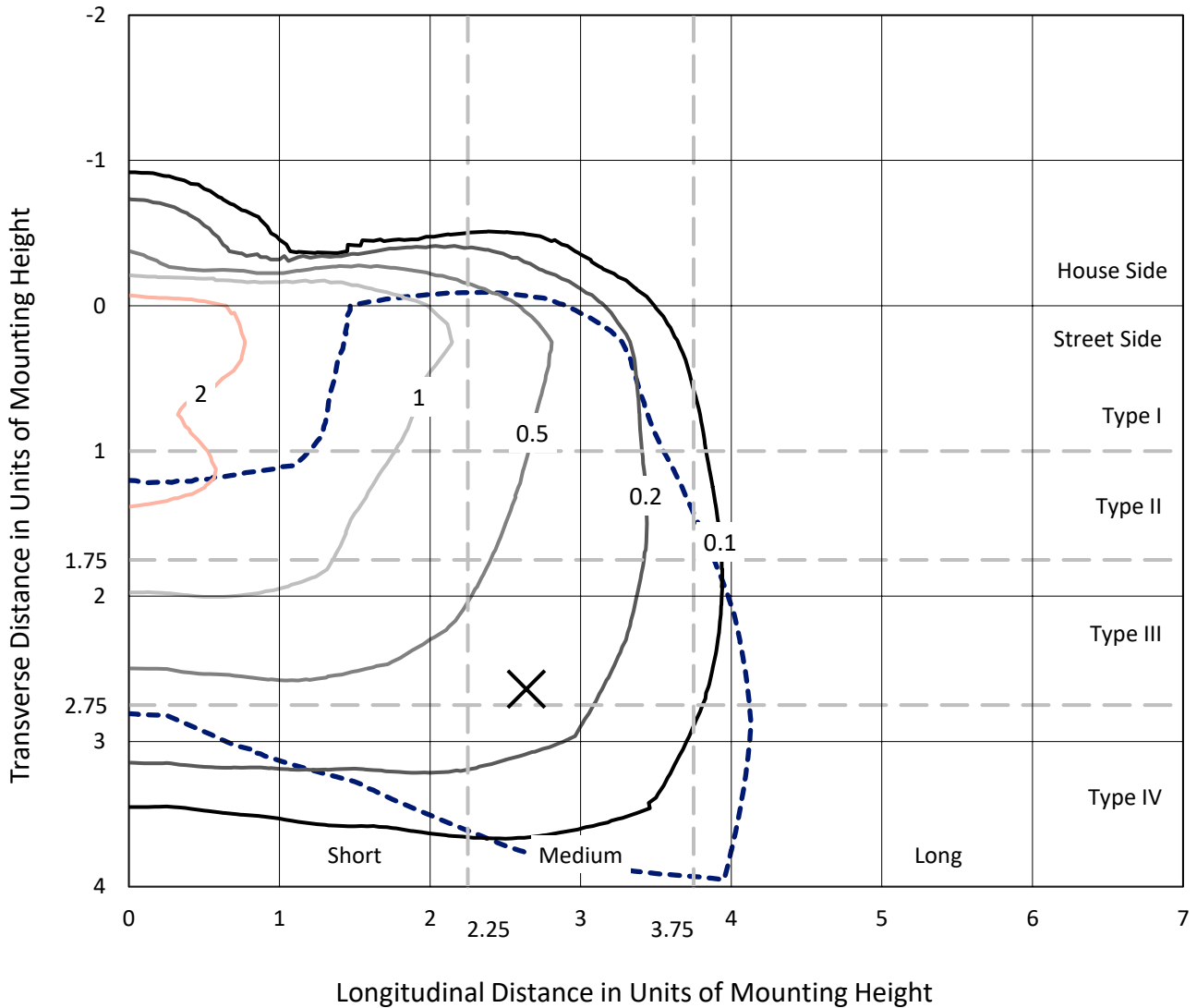
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

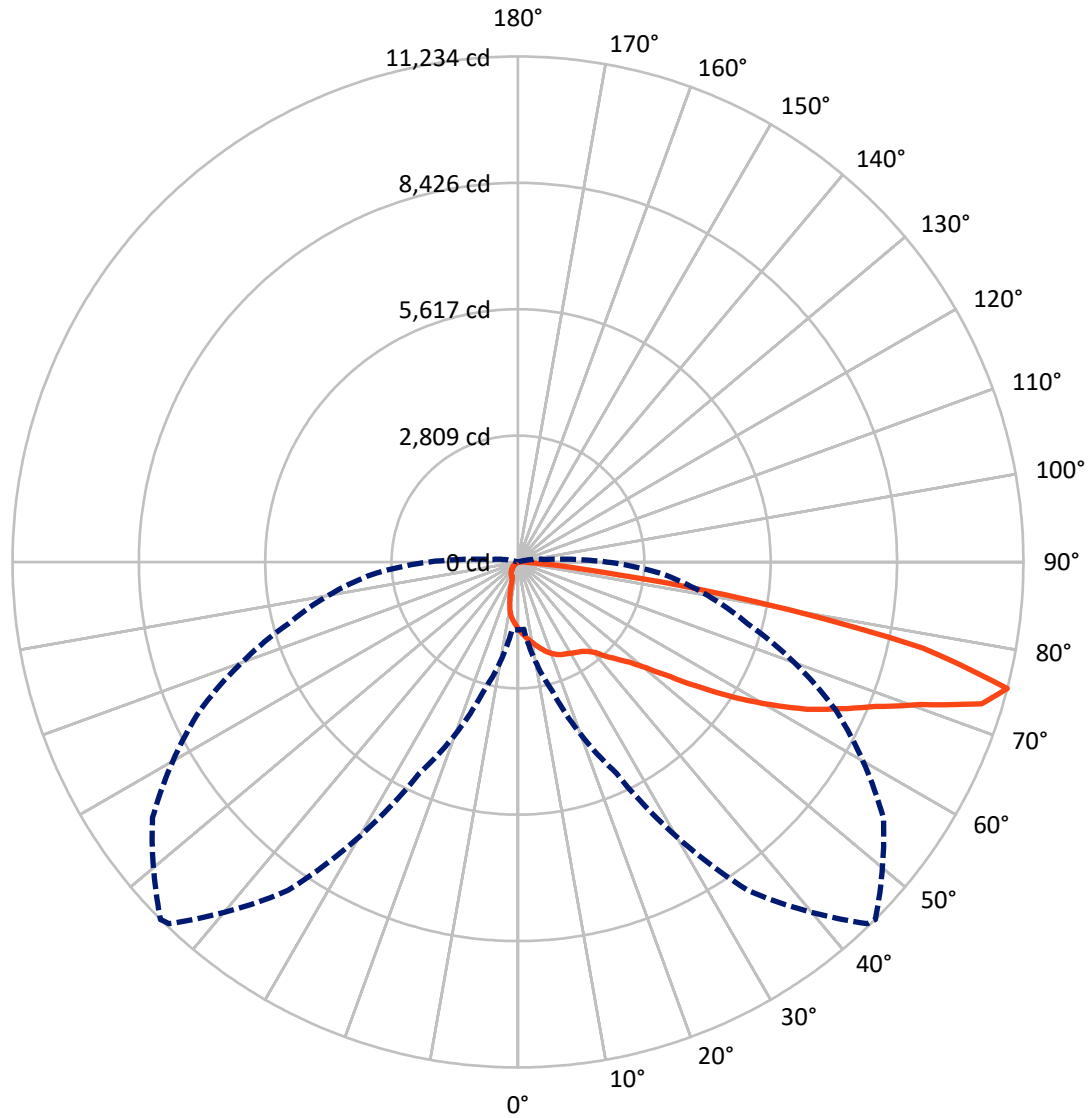
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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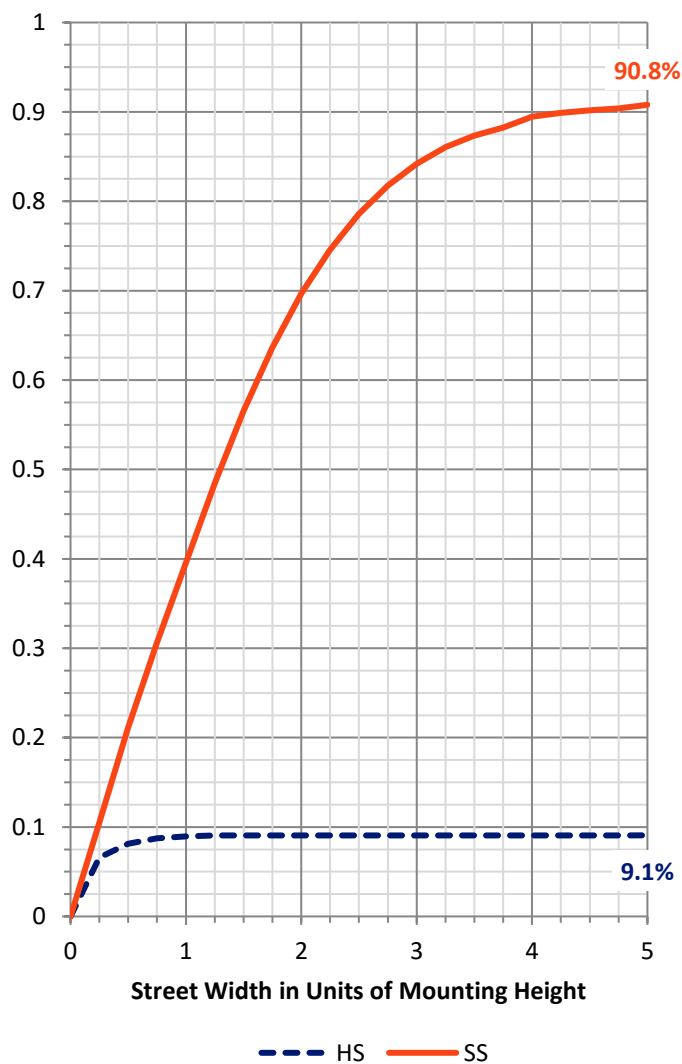
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.0	0.0	1278.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	12694.1	0.0	12694.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	13972.1	0.0	13972.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	1.0
10°-20°	399.6	2.9
20°-30°	661.7	4.7
30°-40°	957.7	6.9
40°-50°	1568.2	11.2
50°-60°	2794.1	20.0
60°-70°	4107.7	29.4
70°-80°	3098.9	22.2
80°-90°	243.1	1.7
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°	13972.1	100.0
0°-180°	13972.1	100.0

Coefficient of Utilization



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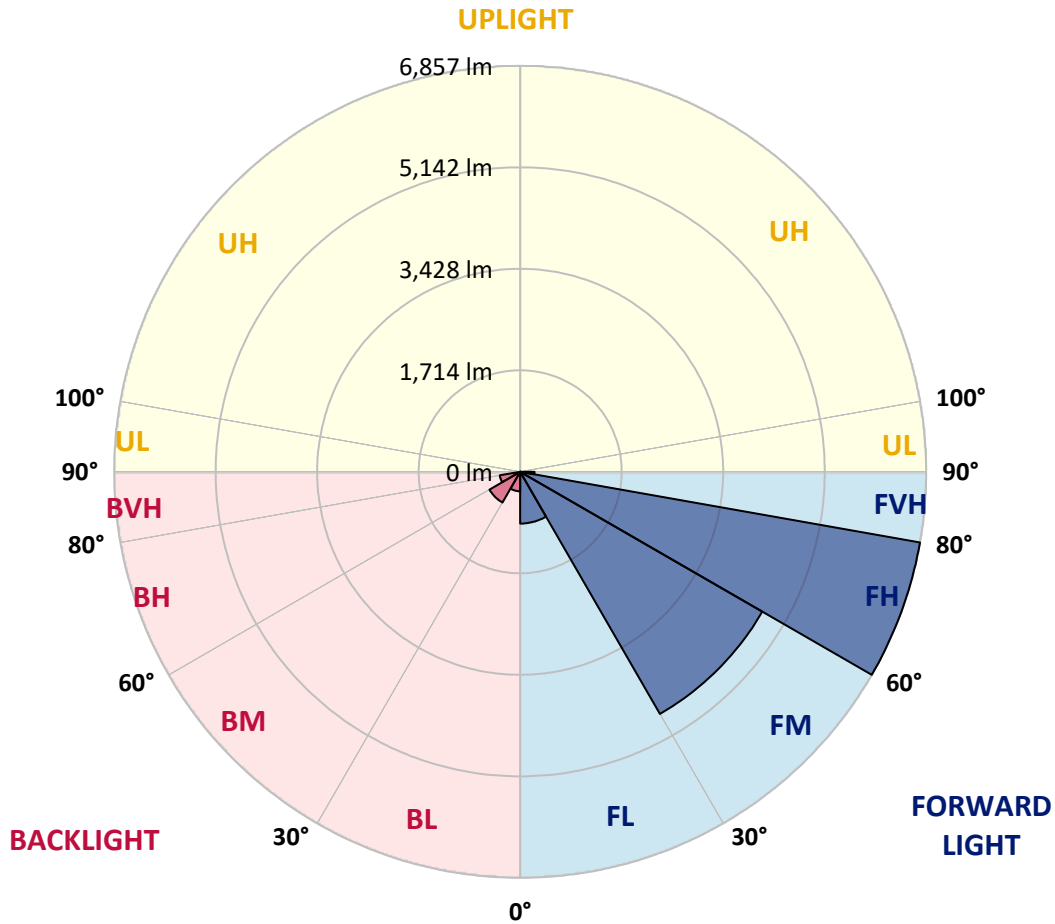
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.9	6.3			
FM (30°-60°)	4721.1	33.8			
FH (60°-80°)	6856.6	49.1			G3/7500
FVH (80°-90°)	242.4	1.7			G3/500
BL (0°-30°)	328.4	2.4	B1/500		
BM (30°-60°)	598.9	4.3	B1/1000		
BH (60°-80°)	350.0	2.5	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3
2.5°	1623.4	1623.4	1620.0	1616.7	1600.2	1583.6	1580.3	1570.4	1540.7	1520.9	1501.0
5°	1758.8	1762.3	1755.6	1739.1	1702.7	1666.3	1663.0	1636.6	1580.3	1540.7	1497.7
7.5°	1887.8	1894.4	1877.9	1848.1	1805.2	1752.3	1748.9	1699.4	1626.7	1570.4	1507.6
10°	1996.9	1996.9	1973.8	1937.3	1891.2	1834.9	1828.4	1772.0	1689.4	1620.0	1537.4
12.5°	2116.0	2112.6	2079.5	2030.0	1977.0	1924.2	1920.9	1851.5	1772.0	1682.8	1580.3
15°	2225.1	2218.4	2175.5	2129.1	2072.9	2016.8	2013.4	1944.0	1861.3	1755.6	1643.2
17.5°	2284.6	2281.3	2241.6	2195.3	2149.0	2106.1	2102.7	2030.0	1940.8	1831.6	1706.0
20°	2294.5	2297.8	2264.7	2225.1	2198.7	2175.5	2175.5	2109.4	2013.4	1897.8	1772.0
22.5°	2297.8	2307.7	2284.6	2231.6	2225.1	2228.4	2235.0	2182.1	2082.9	1973.8	1841.6
25°	2320.8	2334.1	2317.6	2254.8	2248.2	2271.4	2277.9	2254.8	2165.5	2056.5	1920.9
27.5°	2367.2	2380.4	2367.2	2287.9	2277.9	2301.1	2307.7	2320.8	2254.8	2135.8	2003.5
30°	2459.8	2463.1	2433.3	2334.1	2314.3	2344.0	2354.0	2390.4	2337.5	2211.9	2082.9
32.5°	2621.7	2588.7	2499.5	2367.2	2350.7	2383.7	2393.7	2433.3	2413.5	2284.6	2165.5
35°	2952.4	2780.5	2575.5	2413.5	2396.9	2430.0	2443.2	2499.5	2509.3	2387.1	2268.0
37.5°	2949.1	2793.8	2754.0	2502.8	2479.6	2502.8	2519.3	2588.7	2628.4	2522.6	2416.9
40°	3157.4	3091.3	3091.3	2671.4	2595.4	2628.4	2644.9	2714.3	2783.8	2701.1	2592.0
42.5°	3812.0	3769.0	3722.8	2995.4	2757.3	2849.9	2859.9	2902.8	2985.5	2959.1	2830.1
45°	4542.7	4503.0	4324.5	3544.3	3035.1	3051.6	3074.8	3144.2	3263.1	3312.7	3160.7
47.5°	5114.7	5075.0	4922.9	4205.5	3468.2	3322.7	3322.7	3458.3	3643.4	3769.0	3623.6
50°	5574.2	5527.9	5435.3	4909.7	4178.9	3712.8	3693.0	3851.7	4126.0	4321.2	4222.0
52.5°	6020.5	5885.0	5828.8	5637.0	4982.4	4278.1	4225.3	4337.7	4718.0	4959.3	4876.6
55°	6318.1	6298.2	6238.7	6305.0	5825.4	4965.9	4919.6	4942.7	5418.8	5580.9	5478.4
57.5°	6595.8	6592.4	6724.8	7032.3	6744.6	5752.7	5680.0	5643.7	6096.5	6056.9	6146.2
60°	6939.6	6880.2	7187.6	7627.4	7587.6	6519.7	6437.1	6364.4	6615.6	6503.2	6946.2
62.5°	6956.2	6939.6	7564.6	8196.0	8424.1	7300.0	7204.1	6943.0	7068.6	6939.6	7710.0
65°	6324.7	6407.4	7723.2	8496.9	9125.0	7984.4	7868.7	7462.1	7471.9	7386.0	8609.3
67.5°	6182.6	6225.5	7286.8	8820.8	9630.8	8675.4	8566.3	8060.5	7941.4	7948.1	9141.6
70°	5828.8	5894.9	6744.6	8797.8	10030.9	9597.8	9488.7	8939.9	8652.2	8331.6	8731.6
72.5°	4453.4	4565.8	5683.3	7713.2	9921.9	10804.5	10774.8	10054.0	8936.6	7650.5	6605.7
75°	1507.6	1504.3	2985.5	5180.7	8913.5	11174.8	11234.4	9915.2	7795.9	5276.6	3279.8
77.5°	324.0	327.3	614.9	2099.4	5921.3	8972.9	9201.0	7478.6	5028.6	2350.7	750.5
80°	158.7	162.0	254.6	555.5	2367.2	5032.1	5389.1	3845.1	1858.1	469.5	125.6
82.5°	79.3	82.6	132.2	294.2	876.1	1788.7	1911.0	1415.0	532.3	264.5	62.9
85°	29.7	29.7	66.1	175.3	400.0	419.9	515.8	409.9	320.6	214.9	16.5
87.5°	6.7	6.7	36.4	86.0	178.5	132.2	132.2	125.6	195.0	145.5	6.7
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°	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3	1494.3
2.5°	1491.1	1477.8	1454.7	1431.7	1415.0	1395.2	1385.3	1375.3	1372.1	1368.8	1375.3
5°	1474.6	1454.7	1411.7	1375.3	1342.4	1315.8	1296.1	1276.1	1266.4	1259.6	1262.9
7.5°	1474.6	1444.9	1382.0	1325.8	1272.9	1216.7	1160.5	1117.5	1084.4	1064.6	1067.9
10°	1491.1	1451.4	1368.8	1292.7	1193.5	1074.4	952.2	859.7	796.8	760.5	760.5
12.5°	1527.5	1474.6	1372.1	1252.9	1084.4	876.1	690.9	578.5	532.3	505.9	509.1
15°	1577.0	1514.3	1388.5	1200.1	932.3	651.3	482.7	409.9	409.9	416.6	419.9
17.5°	1633.2	1563.8	1401.8	1120.8	737.3	466.2	380.2	373.5	383.5	400.0	400.0
20°	1689.4	1613.4	1408.5	995.2	552.1	370.3	360.3	360.3	367.0	383.5	386.8
22.5°	1758.8	1676.2	1401.8	839.7	413.2	350.5	347.1	347.1	347.1	367.0	367.0
25°	1831.6	1748.9	1375.3	674.4	350.5	337.3	333.9	330.6	330.6	347.1	350.5
27.5°	1914.2	1824.9	1312.5	515.8	330.6	324.0	320.6	314.1	314.1	327.3	327.3
30°	1996.9	1911.0	1216.7	390.2	314.1	310.8	304.2	297.5	290.9	304.2	304.2
32.5°	2086.2	2000.2	1091.1	310.8	290.9	290.9	287.7	277.7	271.1	277.7	281.1
35°	2205.2	2102.7	948.9	271.1	261.2	261.2	261.2	257.9	244.6	251.3	251.3
37.5°	2364.0	2244.8	783.6	251.3	238.0	231.4	231.4	231.4	221.5	224.8	224.8
40°	2565.6	2410.2	624.9	234.7	221.5	205.0	198.5	201.7	195.0	195.0	191.7
42.5°	2839.9	2588.7	469.5	221.5	208.2	185.2	172.0	168.6	162.0	158.7	158.7
45°	3233.4	2807.0	337.3	208.2	198.5	162.0	148.8	138.9	122.4	112.4	112.4
47.5°	3742.5	3054.9	251.3	195.0	188.5	142.1	125.6	105.8	82.6	76.1	76.1
50°	4364.2	3332.6	211.6	175.3	172.0	125.6	99.2	69.4	46.3	39.7	42.9
52.5°	4969.2	3593.7	188.5	155.3	152.1	109.2	72.7	36.4	19.8	19.8	19.8
55°	5478.4	3779.0	172.0	138.9	132.2	86.0	39.7	16.5	10.0	10.0	10.0
57.5°	5937.9	3884.7	155.3	122.4	105.8	59.5	16.5	6.7	6.7	3.3	3.3
60°	6357.8	3947.5	135.6	105.8	82.6	33.1	6.7	3.3	3.3	0.0	0.0
62.5°	6771.1	3993.9	115.7	86.0	62.9	13.2	3.3	3.3	0.0	0.0	0.0
65°	7085.1	3977.4	92.6	69.4	39.7	6.7	3.3	0.0	0.0	0.0	0.0
67.5°	7075.2	3752.5	69.4	52.9	19.8	3.3	0.0	0.0	0.0	0.0	0.0
70°	6328.0	3160.7	46.3	33.1	6.7	3.3	0.0	0.0	0.0	0.0	0.0
72.5°	4489.8	2026.6	29.7	19.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1977.0	614.9	16.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	386.8	142.1	10.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	92.6	16.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	3.3	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)