

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: P399495

Luminaire Tested: **ARCH-L-PA3-150-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399495
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-PA3-150-730-U-T4W-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: 15633 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G4

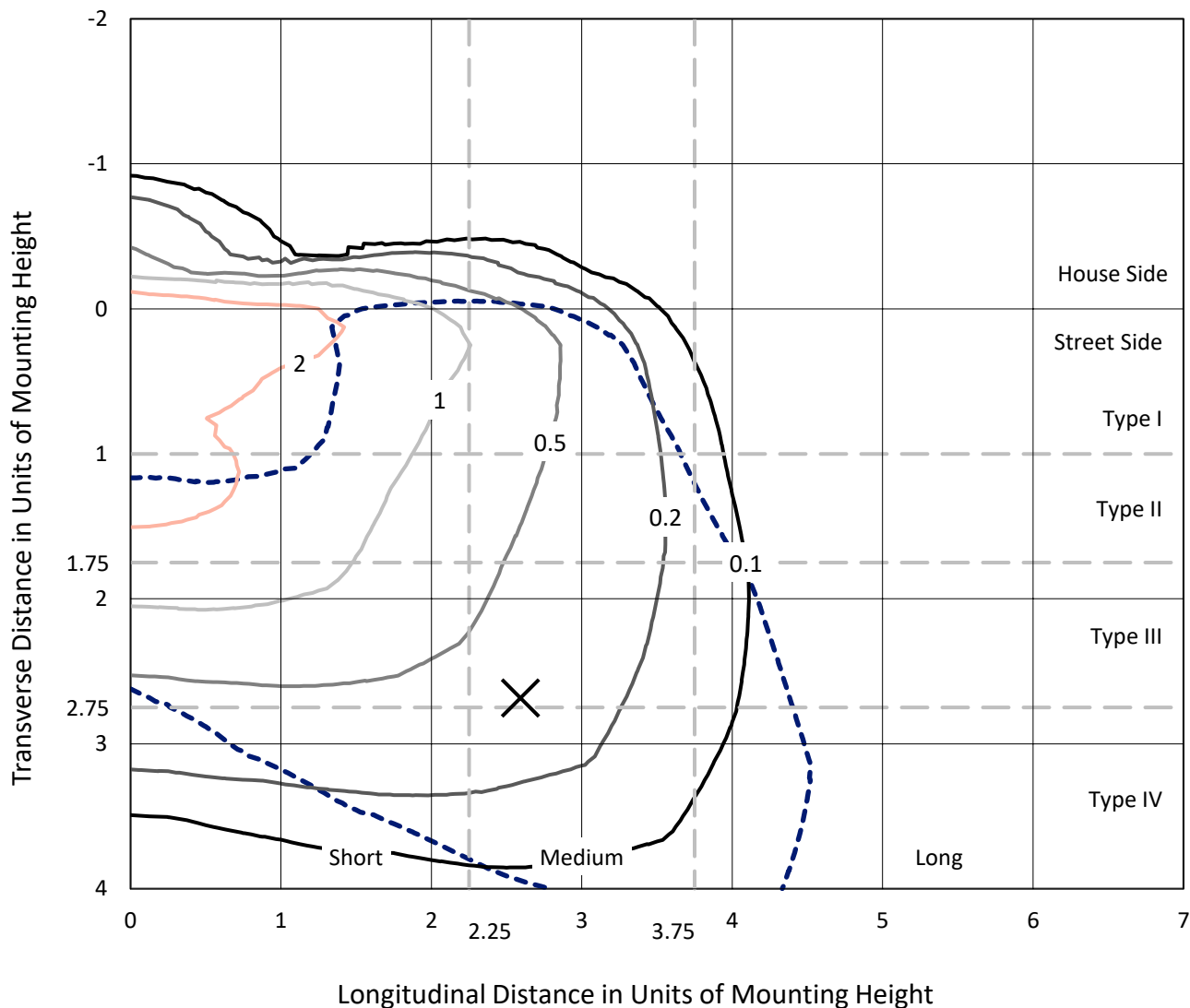
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399495
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

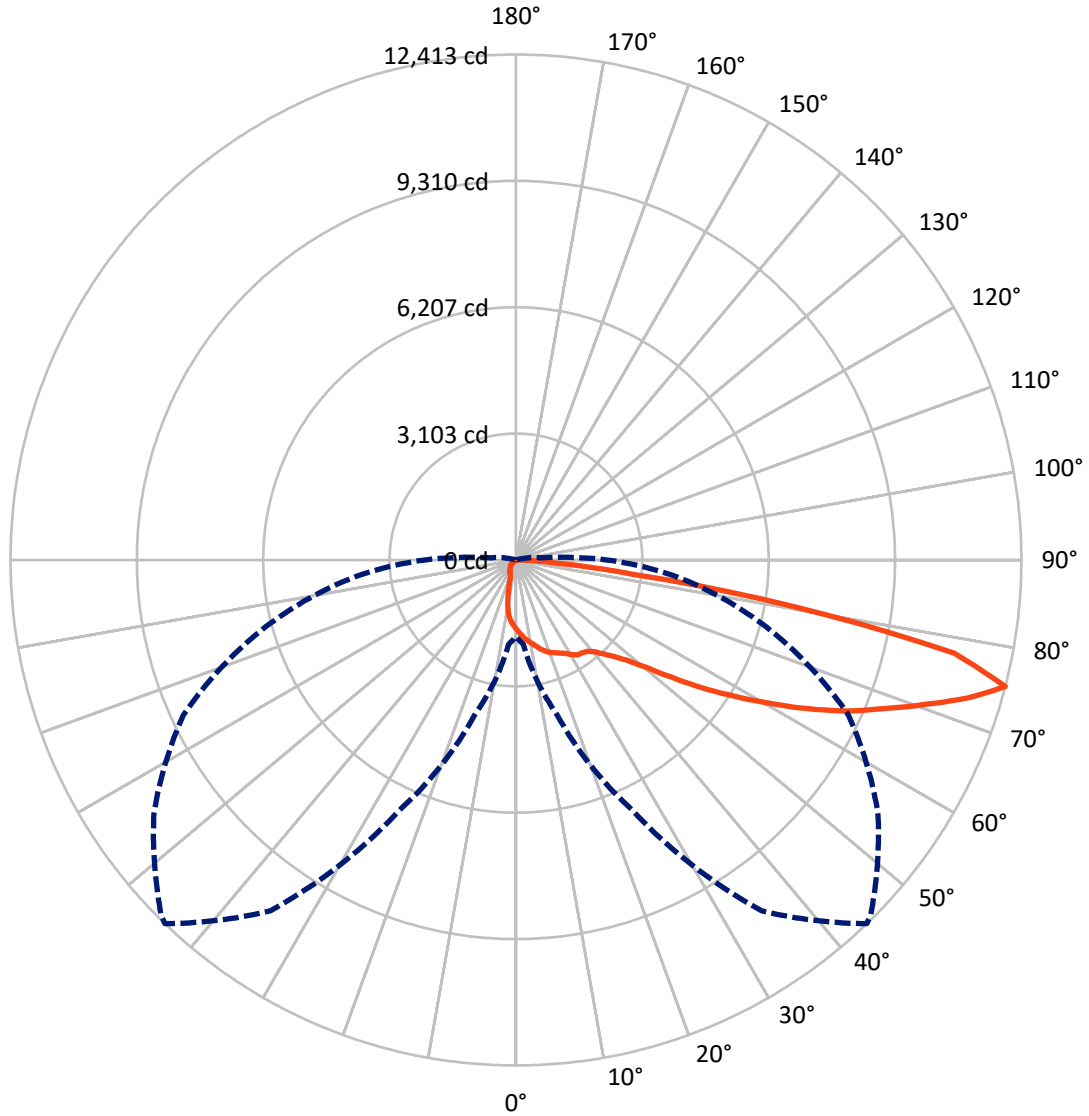
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399495
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399495
 CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

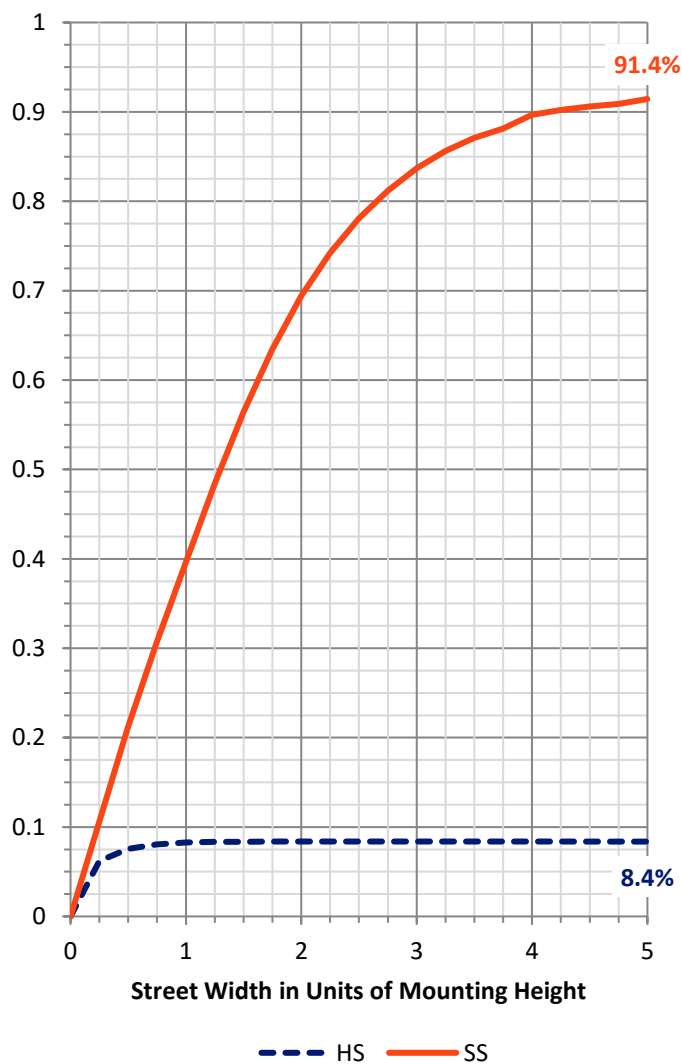
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1318.4	0.0	1318.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	14314.6	0.0	14314.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	15633.0	0.0	15633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.0
10°-20°	449.7	2.9
20°-30°	742.1	4.7
30°-40°	1077.0	6.9
40°-50°	1750.8	11.2
50°-60°	3086.5	19.7
60°-70°	4435.9	28.4
70°-80°	3552.2	22.7
80°-90°	378.5	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°	15633.0	100.0
0°-180°	15633.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399495

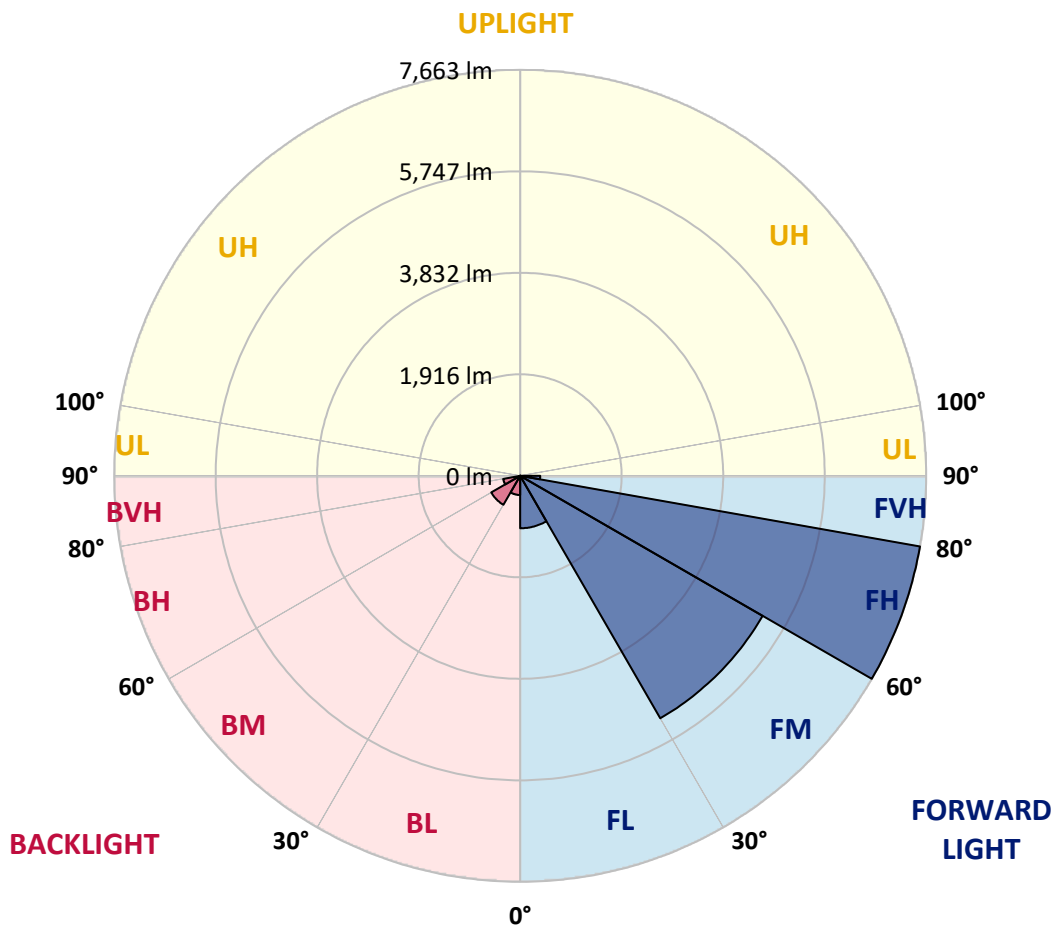
CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	990.0	6.3			
FM (30°-60°)	5284.1	33.8			
FH (60°-80°)	7663.0	49.0			G4/12000
FVH (80°-90°)	377.5	2.4			G3/500
BL (0°-30°)	362.2	2.3	B1/500		
BM (30°-60°)	630.2	4.0	B1/1000		
BH (60°-80°)	325.0	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	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-G4

Type IV Medium





REPORT NUMBER: P399495

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6
2.5°	1854.4	1851.6	1842.9	1828.5	1814.1	1799.7	1796.8	1773.7	1747.7	1727.5	1710.2
5°	2018.8	2016.0	2001.5	1969.8	1938.1	1900.6	1897.7	1842.9	1793.9	1739.1	1692.9
7.5°	2189.0	2183.2	2157.3	2108.2	2053.4	1995.8	1990.0	1909.2	1837.1	1765.0	1698.7
10°	2321.7	2315.9	2278.4	2220.7	2145.7	2073.6	2065.0	1981.3	1909.2	1817.0	1727.5
12.5°	2451.4	2439.9	2390.9	2327.4	2235.1	2165.9	2157.3	2070.8	1984.2	1889.1	1779.5
15°	2572.6	2558.2	2512.0	2431.3	2333.2	2266.9	2261.1	2168.8	2079.4	1969.8	1848.7
17.5°	2656.2	2650.4	2595.7	2506.2	2411.1	2356.3	2350.5	2255.3	2165.9	2050.6	1920.8
20°	2699.5	2699.5	2647.6	2549.5	2463.0	2425.5	2416.8	2327.4	2240.9	2131.3	1995.8
22.5°	2708.1	2716.8	2676.4	2569.7	2506.2	2474.5	2468.8	2390.9	2307.2	2206.3	2079.4
25°	2725.4	2725.4	2705.2	2589.9	2543.7	2535.1	2532.2	2463.0	2388.0	2287.1	2163.0
27.5°	2745.6	2745.6	2731.2	2618.7	2601.4	2598.5	2595.7	2563.9	2503.4	2385.1	2261.1
30°	2797.5	2800.4	2788.9	2676.4	2664.9	2696.6	2702.4	2685.1	2610.1	2463.0	2362.0
32.5°	2927.3	2901.4	2869.6	2716.8	2737.0	2777.3	2780.2	2745.6	2664.9	2546.6	2483.2
35°	3253.2	3100.4	2956.2	2751.4	2760.0	2800.4	2806.2	2803.3	2754.3	2653.3	2621.6
37.5°	3556.0	3339.7	3135.0	2832.1	2803.3	2846.6	2858.1	2907.1	2869.6	2800.4	2809.1
40°	3732.0	3648.3	3504.1	3054.2	2889.8	2956.2	2967.7	3042.7	3028.3	2999.4	3054.2
42.5°	4274.2	4279.9	4124.2	3385.9	3048.4	3155.2	3169.6	3230.1	3250.3	3264.8	3397.4
45°	4902.9	4923.1	4885.6	3982.9	3348.4	3383.0	3403.2	3483.9	3558.9	3651.2	3893.5
47.5°	5658.5	5641.2	5502.8	4712.5	3870.4	3677.2	3691.6	3847.3	3977.1	4179.0	4525.1
50°	6327.6	6370.9	6108.4	5393.2	4605.8	4141.5	4127.1	4279.9	4513.5	4796.2	5231.7
52.5°	7002.5	6939.0	6584.3	6068.1	5476.8	4773.1	4729.9	4813.5	5142.3	5476.8	5923.9
55°	7181.3	7187.1	7065.9	6806.4	6203.6	5540.3	5468.2	5462.4	5871.9	6099.8	6650.6
57.5°	7533.2	7547.6	7576.4	7628.3	7342.8	6307.4	6232.4	6151.7	6549.7	6682.4	7380.3
60°	7890.8	7908.1	8084.0	8363.8	8173.4	7135.2	7054.4	6864.1	7086.1	7264.9	8147.5
62.5°	7844.6	7965.8	8476.2	9032.9	9009.8	8043.6	7942.7	7484.1	7625.4	7781.2	8851.2
65°	7083.2	7213.0	8360.9	9217.4	9849.0	8940.6	8776.2	8124.4	8133.0	8320.5	9528.9
67.5°	6402.6	6543.9	7639.9	9139.6	10402.8	9745.2	9575.1	8767.5	8632.0	8943.5	9892.3
70°	6010.4	6151.7	7065.9	8897.3	10558.5	10636.4	10489.3	9503.0	9226.1	9511.6	9485.7
72.5°	4703.9	4926.0	6333.4	8435.9	10725.8	11591.0	11475.7	10434.5	9730.8	8917.5	7221.7
75°	1874.6	2079.4	3954.0	6789.1	10515.3	12413.0	12323.6	10852.7	9006.9	6368.0	3697.4
77.5°	565.3	605.7	1098.8	3357.0	7709.1	11005.6	10976.7	9125.2	6373.8	2956.2	1009.4
80°	187.5	207.7	337.4	925.8	3518.5	6875.6	7005.4	5814.3	2895.6	677.8	204.8
82.5°	77.9	86.5	170.2	372.0	1245.9	2961.9	2918.7	2604.3	1009.4	421.1	75.0
85°	20.2	26.0	77.9	213.4	455.7	1021.0	1072.9	873.9	571.0	349.0	23.1
87.5°	0.0	0.0	37.5	86.5	204.8	308.6	323.0	265.3	323.0	262.4	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399495

CATALOG NUMBER: ARCH-L-PA3-150-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6	1701.6
2.5°	1695.8	1681.4	1655.4	1638.1	1615.1	1609.3	1597.8	1583.3	1580.5	1566.0	1568.9
5°	1667.0	1643.9	1597.8	1566.0	1528.5	1517.0	1496.8	1482.4	1470.9	1450.7	1453.6
7.5°	1661.2	1626.6	1563.2	1502.6	1442.0	1398.8	1338.2	1289.2	1248.8	1205.5	1214.2
10°	1681.4	1638.1	1548.7	1465.1	1355.5	1217.1	1058.4	954.6	902.7	850.8	856.6
12.5°	1721.8	1669.9	1554.5	1427.6	1205.5	969.0	749.9	608.5	571.0	548.0	550.9
15°	1782.3	1718.9	1571.8	1355.5	1003.7	700.8	498.9	438.4	452.8	461.4	461.4
17.5°	1845.8	1773.7	1586.2	1225.7	775.8	490.3	406.7	400.9	421.1	441.3	441.3
20°	1923.7	1831.4	1589.1	1061.3	559.5	398.0	383.6	383.6	398.0	421.1	421.1
22.5°	1998.7	1894.8	1563.2	873.9	426.8	369.2	369.2	369.2	377.8	400.9	403.8
25°	2088.1	1972.7	1508.4	674.9	366.3	351.9	351.9	354.7	360.5	380.7	383.6
27.5°	2183.2	2053.4	1416.1	493.2	334.6	331.7	334.6	337.4	340.3	360.5	366.3
30°	2292.8	2142.9	1297.8	369.2	305.7	305.7	314.4	320.1	320.1	337.4	343.2
32.5°	2419.7	2261.1	1156.5	305.7	276.9	274.0	288.4	297.1	297.1	311.5	317.2
35°	2578.3	2382.2	986.3	271.1	253.8	248.0	253.8	268.2	274.0	285.5	288.4
37.5°	2788.9	2526.4	804.7	250.9	236.5	225.0	225.0	227.8	239.4	250.9	253.8
40°	3057.1	2685.1	625.8	236.5	219.2	207.7	199.0	196.1	193.2	201.9	207.7
42.5°	3394.5	2863.9	467.2	222.1	204.8	187.5	175.9	164.4	150.0	147.1	150.0
45°	3827.1	3083.1	346.1	210.5	196.1	170.2	150.0	129.8	103.8	95.2	98.1
47.5°	4337.6	3310.9	271.1	199.0	190.3	150.0	124.0	89.4	63.4	57.7	60.6
50°	4879.8	3530.1	230.7	184.6	178.8	129.8	89.4	54.8	37.5	37.5	40.4
52.5°	5341.3	3654.1	210.5	173.0	161.5	106.7	57.7	31.7	23.1	23.1	26.0
55°	5788.3	3720.4	196.1	161.5	138.4	75.0	31.7	20.2	14.4	14.4	14.4
57.5°	6249.7	3749.3	178.8	147.1	109.6	46.1	17.3	11.5	8.7	8.7	8.7
60°	6659.3	3694.5	152.9	121.1	72.1	23.1	8.7	8.7	5.8	2.9	2.9
62.5°	7002.5	3590.6	106.7	86.5	43.3	11.5	5.8	2.9	0.0	0.0	0.0
65°	7213.0	3423.4	69.2	57.7	26.0	8.7	2.9	0.0	0.0	0.0	0.0
67.5°	7152.5	3109.0	43.3	37.5	11.5	5.8	2.9	0.0	0.0	0.0	0.0
70°	6454.5	2549.5	31.7	23.1	8.7	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	4652.0	1724.7	23.1	14.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	2238.0	614.3	14.4	11.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	548.0	135.6	8.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.1	26.0	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.4	11.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.9	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)