

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: P400044

Luminaire Tested: **ARCH-L-PA3-220-830-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400044
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-PA3-220-830-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 945mA 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: 17732 lumens
Efficiency: N/A
Efficacy: 79.9 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

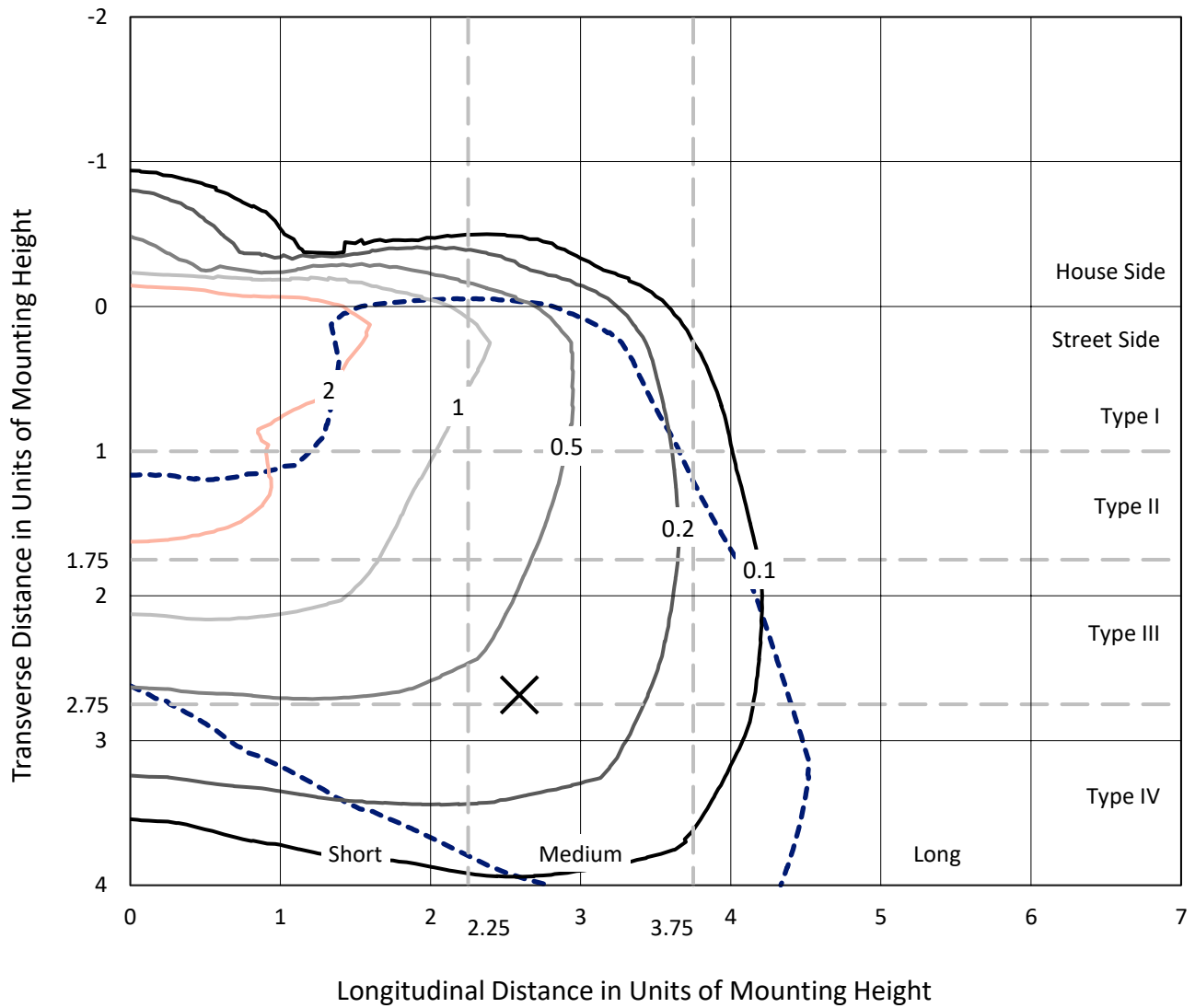
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400044
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Iso-Footcandle Lines of Horizontal Illumination

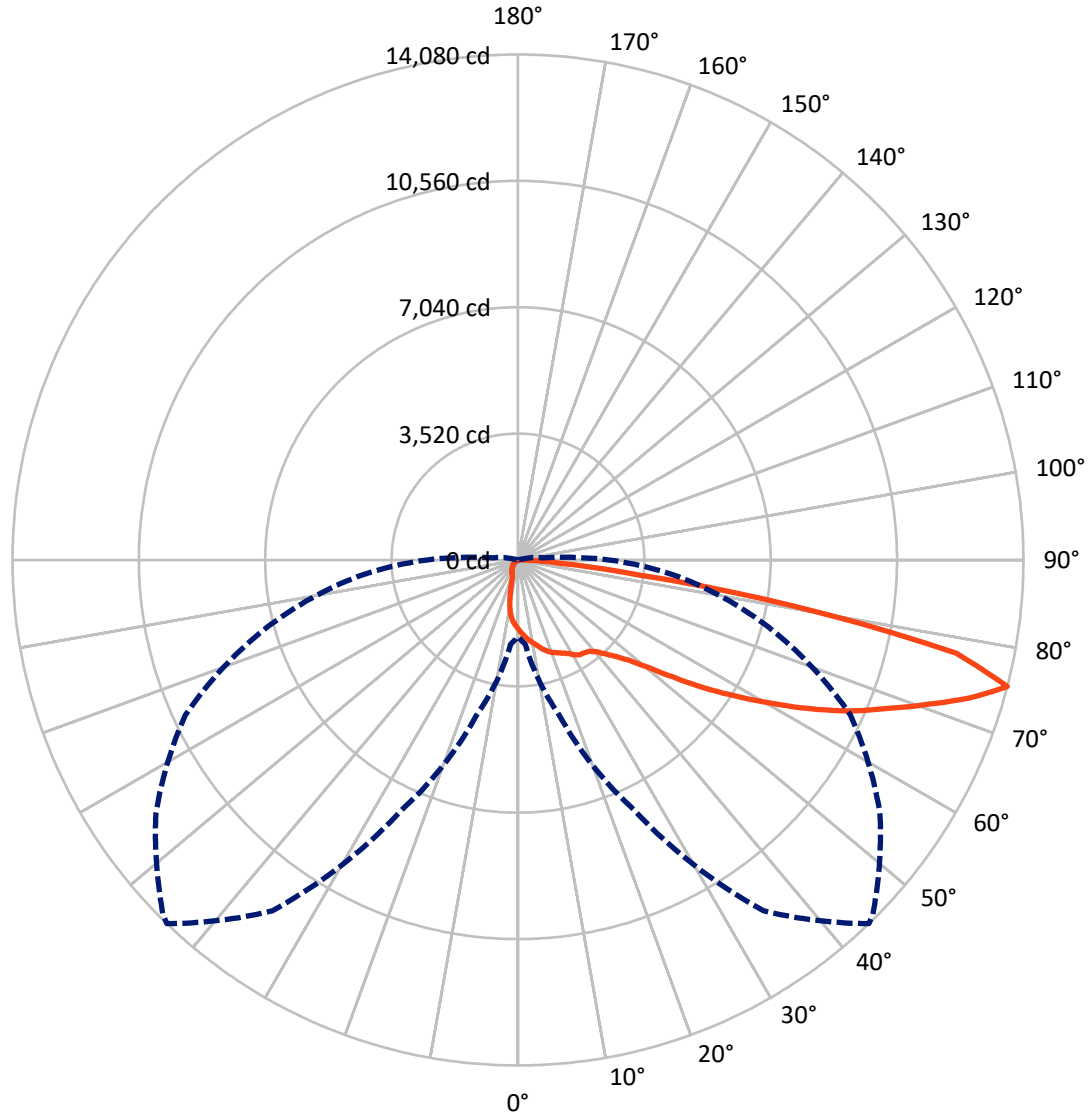
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400044
CATALOG NUMBER: ARCH-L-PA3-220-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

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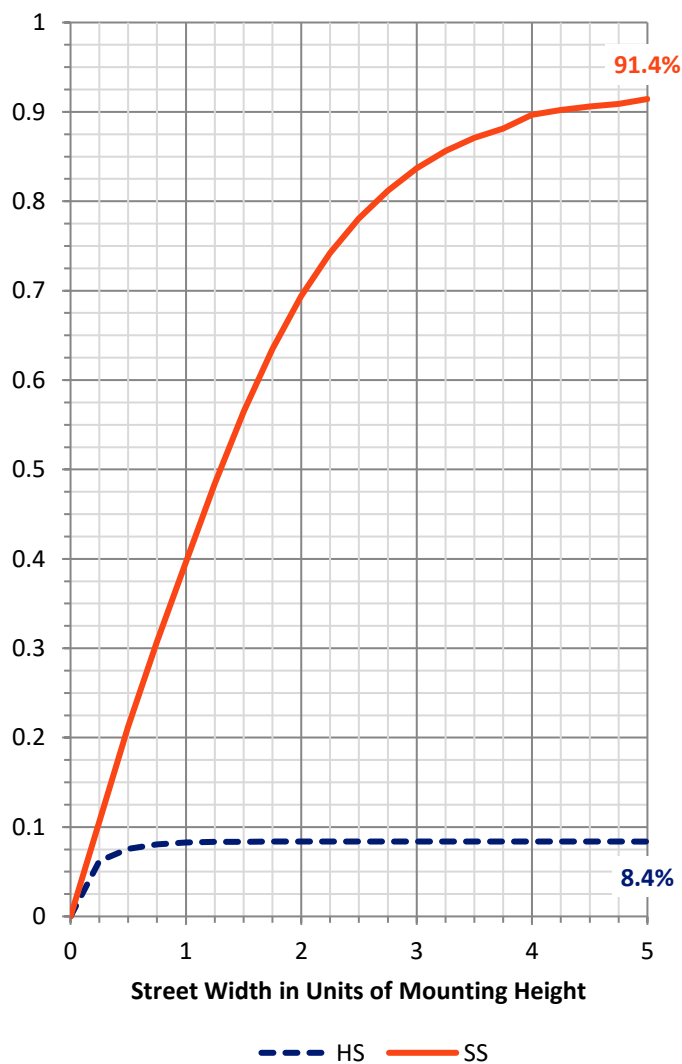
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1495.4	0.0	1495.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16236.6	0.0	16236.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	17732.0	0.0	17732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.0
10°-20°	510.0	2.9
20°-30°	841.7	4.7
30°-40°	1221.7	6.9
40°-50°	1985.9	11.2
50°-60°	3500.9	19.7
60°-70°	5031.5	28.4
70°-80°	4029.1	22.7
80°-90°	429.3	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°	17732.0	100.0
0°-180°	17732.0	100.0

Coefficient of Utilization

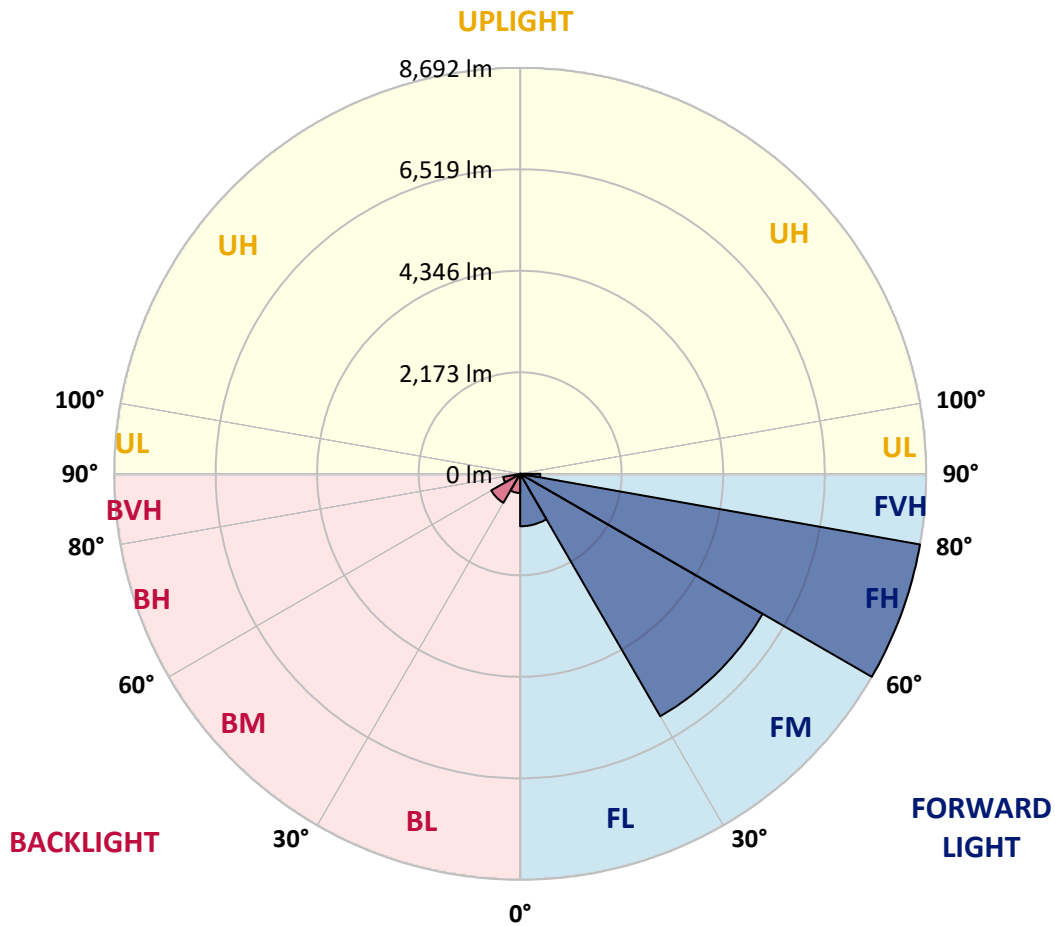


REPORT NUMBER: P400044
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.9	6.3			
FM (30°-60°)	5993.6	33.8			
FH (60°-80°)	8691.9	49.0			G4/12000
FVH (80°-90°)	428.2	2.4			G3/500
BL (0°-30°)	410.8	2.3	B1/500		
BM (30°-60°)	714.8	4.0	B1/1000		
BH (60°-80°)	368.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Medium





REPORT NUMBER: P400044

CATALOG NUMBER: ARCH-L-PA3-220-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1
2.5°	2103.4	2100.2	2090.4	2074.0	2057.6	2041.3	2038.0	2011.8	1982.4	1959.5	1939.9
5°	2289.9	2286.6	2270.3	2234.3	2198.3	2155.8	2152.5	2090.4	2034.7	1972.6	1920.2
7.5°	2482.9	2476.4	2446.9	2391.3	2329.2	2263.7	2257.2	2165.6	2083.8	2002.0	1926.8
10°	2633.4	2626.8	2584.3	2518.9	2433.8	2352.1	2342.2	2247.4	2165.6	2060.9	1959.5
12.5°	2780.6	2767.5	2711.9	2639.9	2535.2	2456.7	2446.9	2348.8	2250.6	2142.7	2018.4
15°	2918.0	2901.6	2849.3	2757.7	2646.5	2571.2	2564.7	2460.0	2358.6	2234.3	2096.9
17.5°	3012.9	3006.3	2944.2	2842.8	2734.8	2672.6	2666.1	2558.1	2456.7	2325.9	2178.7
20°	3061.9	3061.9	3003.0	2891.8	2793.7	2751.2	2741.3	2639.9	2541.8	2417.5	2263.7
22.5°	3071.7	3081.6	3035.8	2914.7	2842.8	2806.8	2800.2	2711.9	2617.0	2502.5	2358.6
25°	3091.4	3091.4	3068.5	2937.6	2885.3	2875.5	2872.2	2793.7	2708.6	2594.1	2453.5
27.5°	3114.3	3114.3	3097.9	2970.3	2950.7	2947.4	2944.2	2908.2	2839.5	2705.4	2564.7
30°	3173.2	3176.4	3163.3	3035.8	3022.7	3058.7	3065.2	3045.6	2960.5	2793.7	2679.2
32.5°	3320.4	3290.9	3254.9	3081.6	3104.5	3150.3	3153.5	3114.3	3022.7	2888.5	2816.6
35°	3690.0	3516.6	3353.1	3120.8	3130.6	3176.4	3183.0	3179.7	3124.1	3009.6	2973.6
37.5°	4033.5	3788.2	3555.9	3212.4	3179.7	3228.8	3241.8	3297.5	3254.9	3176.4	3186.2
40°	4233.0	4138.2	3974.6	3464.3	3277.8	3353.1	3366.2	3451.2	3434.9	3402.1	3464.3
42.5°	4848.1	4854.6	4677.9	3840.5	3457.8	3578.8	3595.1	3663.8	3686.7	3703.1	3853.6
45°	5561.2	5584.1	5541.6	4517.7	3798.0	3837.2	3860.1	3951.7	4036.8	4141.5	4416.2
47.5°	6418.3	6398.6	6241.6	5345.3	4390.1	4170.9	4187.3	4363.9	4511.1	4740.1	5132.7
50°	7177.2	7226.3	6928.6	6117.3	5224.2	4697.6	4681.2	4854.6	5119.6	5440.2	5934.1
52.5°	7942.7	7870.7	7468.4	6882.8	6212.2	5414.0	5364.9	5459.8	5832.7	6212.2	6719.2
55°	8145.5	8152.1	8014.7	7720.2	7036.5	6284.1	6202.4	6195.8	6660.3	6918.8	7543.6
57.5°	8544.6	8561.0	8593.7	8652.6	8328.7	7154.3	7069.3	6977.7	7429.1	7579.6	8371.2
60°	8950.2	8969.9	9169.4	9486.7	9270.8	8093.2	8001.6	7785.7	8037.6	8240.4	9241.4
62.5°	8897.9	9035.3	9614.3	10245.7	10219.5	9123.6	9009.1	8489.0	8649.3	8825.9	10039.6
65°	8034.3	8181.5	9483.5	10455.0	11171.5	10141.0	9954.5	9215.2	9225.0	9437.7	10808.3
67.5°	7262.3	7422.6	8665.6	10366.7	11799.5	11053.7	10860.7	9944.7	9791.0	10144.3	11220.5
70°	6817.4	6977.7	8014.7	10091.9	11976.2	12064.5	11897.7	10778.9	10464.9	10788.7	10759.3
72.5°	5335.5	5587.4	7183.8	9568.5	12165.9	13147.3	13016.5	11835.5	11037.3	10114.8	8191.3
75°	2126.3	2358.6	4484.9	7700.6	11927.1	14079.6	13978.2	12309.9	10216.2	7223.0	4193.8
77.5°	641.2	687.0	1246.4	3807.8	8744.2	12483.2	12450.5	10350.4	7229.6	3353.1	1145.0
80°	212.6	235.5	382.7	1050.1	3991.0	7798.8	7946.0	6594.9	3284.4	768.8	232.3
82.5°	88.3	98.1	193.0	422.0	1413.2	3359.6	3310.5	2954.0	1145.0	477.6	85.1
85°	22.9	29.4	88.3	242.1	516.9	1158.0	1216.9	991.2	647.7	395.8	26.2
87.5°	0.0	0.0	42.5	98.1	232.3	350.0	366.4	301.0	366.4	297.7	13.1
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: P400044

CATALOG NUMBER: ARCH-L-PA3-220-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1	1930.1
2.5°	1923.5	1907.2	1877.7	1858.1	1831.9	1825.4	1812.3	1795.9	1792.7	1776.3	1779.6
5°	1890.8	1864.6	1812.3	1776.3	1733.8	1720.7	1697.8	1681.4	1668.4	1645.5	1648.7
7.5°	1884.3	1845.0	1773.0	1704.3	1635.6	1586.6	1517.9	1462.3	1416.5	1367.4	1377.2
10°	1907.2	1858.1	1756.7	1661.8	1537.5	1380.5	1200.6	1082.8	1023.9	965.0	971.6
12.5°	1953.0	1894.1	1763.2	1619.3	1367.4	1099.2	850.5	690.2	647.7	621.5	624.8
15°	2021.7	1949.7	1782.9	1537.5	1138.4	794.9	565.9	497.2	513.6	523.4	523.4
17.5°	2093.6	2011.8	1799.2	1390.3	880.0	556.1	461.3	454.7	477.6	500.5	500.5
20°	2182.0	2077.3	1802.5	1203.8	634.6	451.4	435.1	435.1	451.4	477.6	477.6
22.5°	2267.0	2149.2	1773.0	991.2	484.2	418.7	418.7	418.7	428.5	454.7	458.0
25°	2368.4	2237.6	1710.9	765.5	415.5	399.1	399.1	402.4	408.9	431.8	435.1
27.5°	2476.4	2329.2	1606.2	559.4	379.5	376.2	379.5	382.7	386.0	408.9	415.5
30°	2600.7	2430.6	1472.1	418.7	346.8	346.8	356.6	363.1	363.1	382.7	389.3
32.5°	2744.6	2564.7	1311.8	346.8	314.0	310.8	327.1	336.9	336.9	353.3	359.8
35°	2924.5	2702.1	1118.8	307.5	287.9	281.3	287.9	304.2	310.8	323.9	327.1
37.5°	3163.3	2865.6	912.7	284.6	268.2	255.2	255.2	258.4	271.5	284.6	287.9
40°	3467.6	3045.6	709.9	268.2	248.6	235.5	225.7	222.4	219.2	229.0	235.5
42.5°	3850.3	3248.4	529.9	251.9	232.3	212.6	199.5	186.5	170.1	166.8	170.1
45°	4341.0	3497.0	392.6	238.8	222.4	193.0	170.1	147.2	117.8	108.0	111.2
47.5°	4920.0	3755.4	307.5	225.7	215.9	170.1	140.7	101.4	72.0	65.4	68.7
50°	5535.0	4004.1	261.7	209.4	202.8	147.2	101.4	62.2	42.5	42.5	45.8
52.5°	6058.4	4144.7	238.8	196.3	183.2	121.0	65.4	36.0	26.2	26.2	29.4
55°	6565.5	4220.0	222.4	183.2	157.0	85.1	36.0	22.9	16.4	16.4	16.4
57.5°	7088.9	4252.7	202.8	166.8	124.3	52.3	19.6	13.1	9.8	9.8	9.8
60°	7553.4	4190.5	173.4	137.4	81.8	26.2	9.8	9.8	6.5	3.3	3.3
62.5°	7942.7	4072.8	121.0	98.1	49.1	13.1	6.5	3.3	0.0	0.0	0.0
65°	8181.5	3883.0	78.5	65.4	29.4	9.8	3.3	0.0	0.0	0.0	0.0
67.5°	8112.8	3526.5	49.1	42.5	13.1	6.5	3.3	0.0	0.0	0.0	0.0
70°	7321.1	2891.8	36.0	26.2	9.8	3.3	0.0	0.0	0.0	0.0	0.0
72.5°	5276.6	1956.2	26.2	16.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2538.5	696.8	16.4	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	621.5	153.8	9.8	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.4	29.4	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	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)