

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: P400114

Luminaire Tested: **ARCH-L-PA3-230-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-230-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18413 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

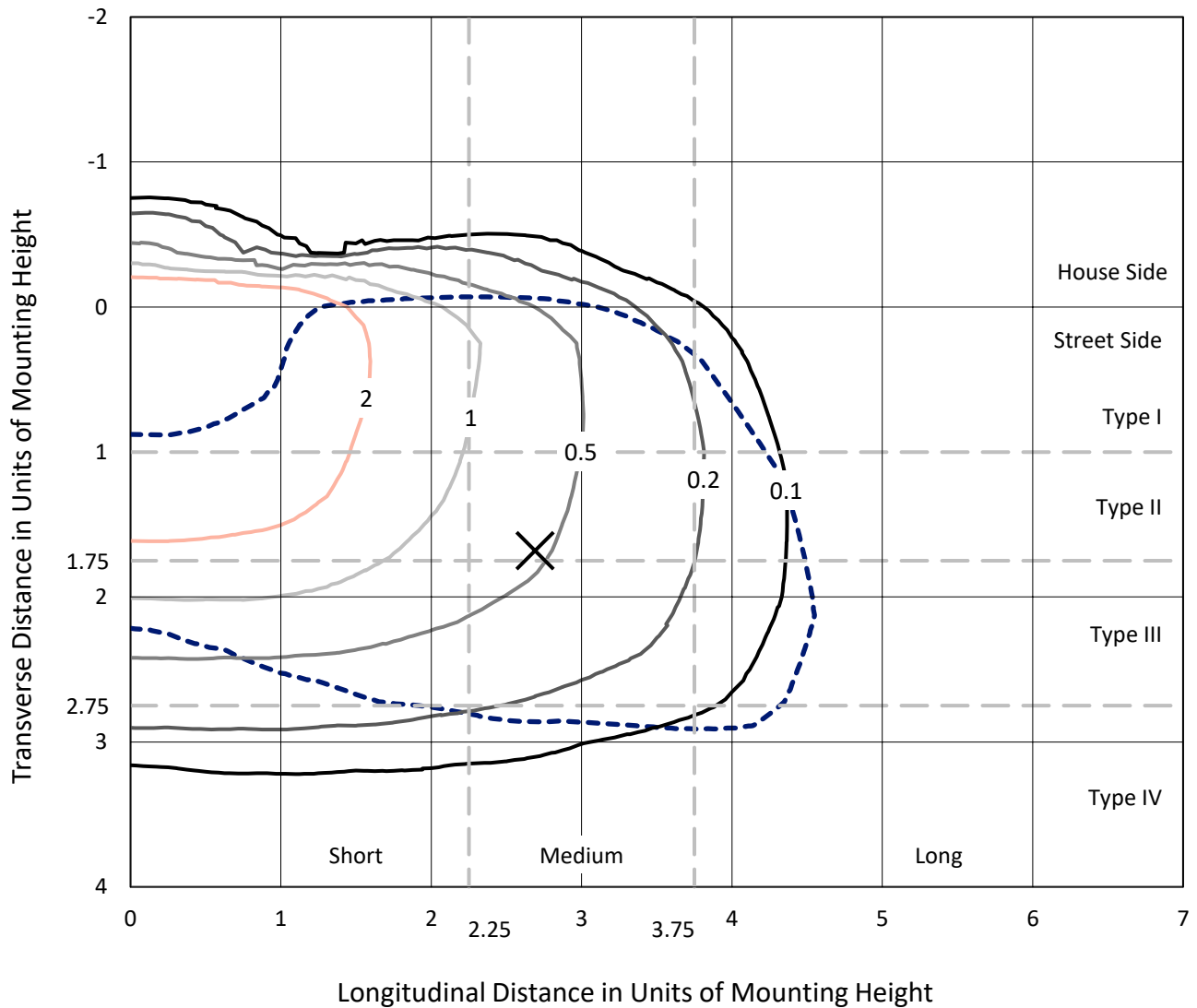
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

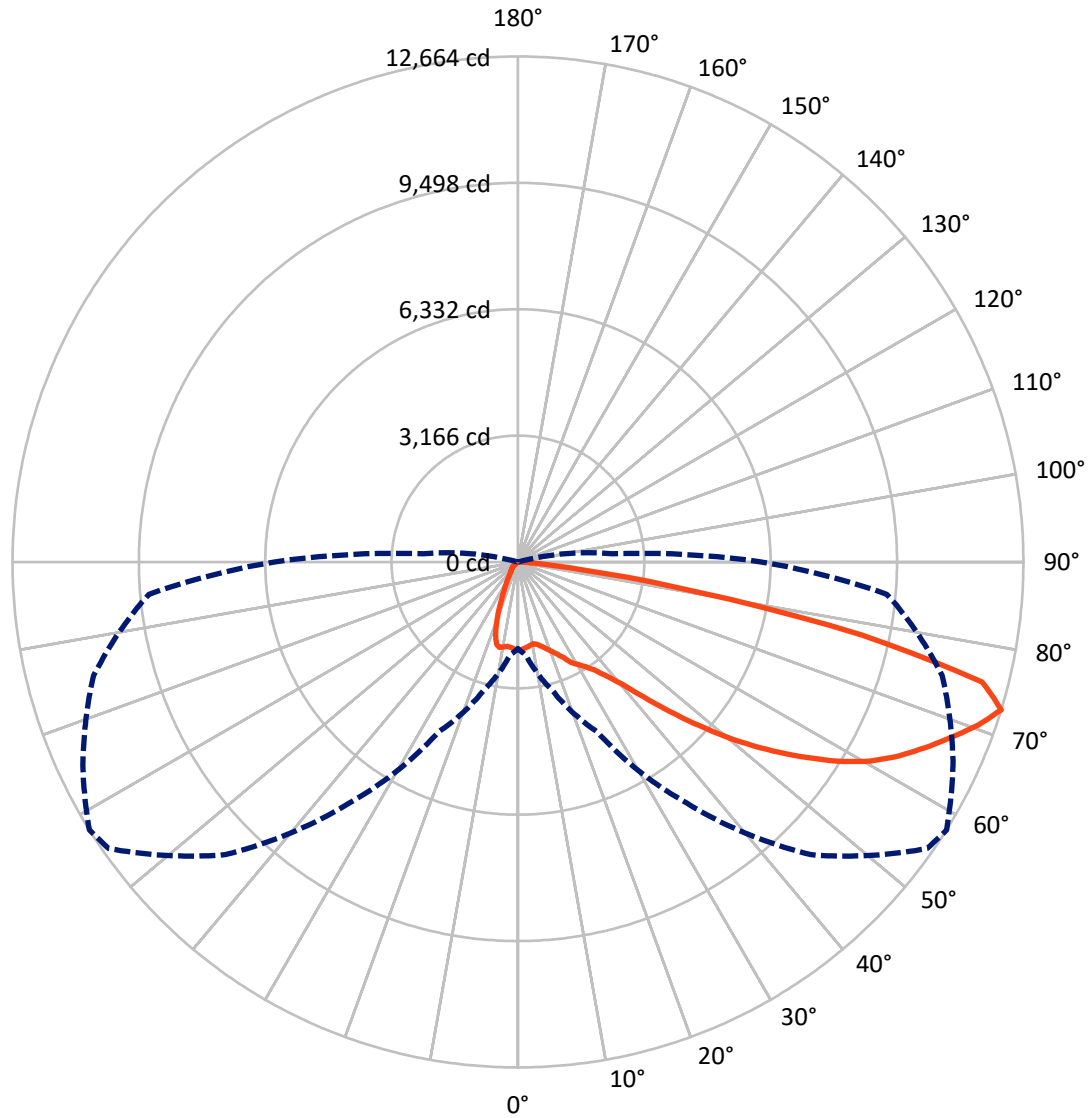
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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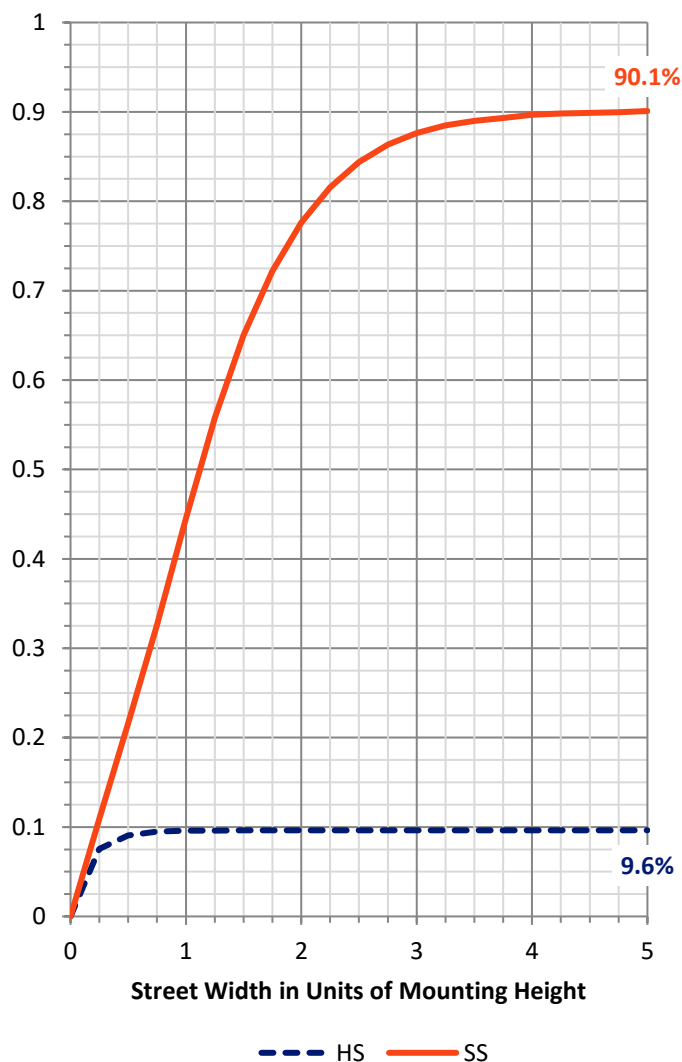
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1790.5	0.0	1790.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16622.5	0.0	16622.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	18413.0	0.0	18413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.1
10°-20°	528.1	2.9
20°-30°	829.7	4.5
30°-40°	1430.8	7.8
40°-50°	2722.2	14.8
50°-60°	4311.2	23.4
60°-70°	5030.7	27.3
70°-80°	3150.7	17.1
80°-90°	206.8	1.1
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°	18413.0	100.0
0°-180°	18413.0	100.0

Coefficient of Utilization

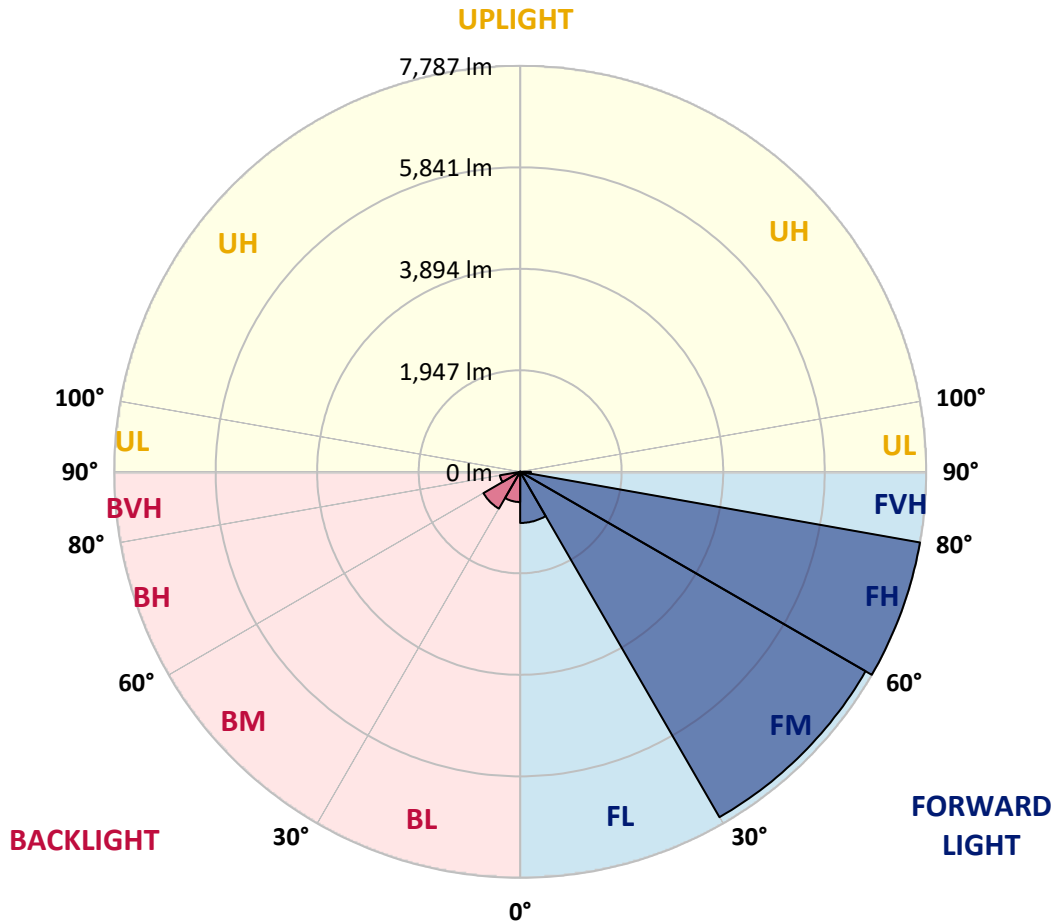


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.7	5.3			
FM (30°-60°)	7649.5	41.5			
FH (60°-80°)	7787.4	42.3			G4/12000
FVH (80°-90°)	204.8	1.1			G2/225
BL (0°-30°)	579.8	3.1	B2/1000		
BM (30°-60°)	814.7	4.4	B1/1000		
BH (60°-80°)	394.0	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4
2.5°	2199.6	2189.7	2186.4	2183.1	2186.4	2189.7	2179.8	2189.7	2183.1	2186.4	2193.0
5°	2120.5	2110.7	2107.4	2110.7	2120.5	2137.0	2143.6	2153.5	2153.5	2163.3	2166.6
7.5°	2031.6	2025.1	2021.8	2028.3	2048.1	2084.3	2104.1	2117.3	2130.4	2150.2	2169.9
10°	1982.2	1979.0	1975.7	1985.5	2005.3	2038.2	2064.6	2084.3	2133.7	2189.7	2225.9
12.5°	1949.3	1949.3	1955.9	1975.7	2002.0	2028.3	2090.9	2117.3	2193.0	2278.6	2328.0
15°	1923.0	1923.0	1932.9	1969.1	2005.3	2067.9	2160.1	2189.7	2278.6	2384.0	2449.8
17.5°	1903.2	1909.8	1916.4	1952.6	2021.8	2127.1	2235.8	2278.6	2387.3	2502.5	2574.9
20°	1906.5	1913.1	1916.4	1952.6	2051.4	2196.3	2334.6	2384.0	2509.1	2630.9	2703.4
22.5°	1926.3	1936.1	1939.4	1988.8	2104.1	2268.7	2446.5	2502.5	2637.5	2765.9	2821.9
25°	2008.6	2015.2	1995.4	2038.2	2179.8	2380.7	2591.4	2650.7	2785.7	2904.2	2950.3
27.5°	2288.5	2295.1	2186.4	2137.0	2239.1	2472.9	2769.2	2851.5	3019.5	3098.5	3105.1
30°	2894.3	2900.9	2686.9	2453.1	2380.7	2551.9	2868.0	2983.2	3200.6	3289.5	3250.0
32.5°	3674.7	3668.1	3375.1	3029.3	2716.5	2690.2	3009.6	3131.4	3368.5	3454.1	3424.5
35°	4458.4	4468.3	4218.0	3697.8	3250.0	2950.3	3190.7	3332.3	3618.8	3740.6	3687.9
37.5°	4995.1	5061.0	4952.3	4389.3	3905.2	3431.1	3483.7	3635.2	3994.1	4158.8	4046.8
40°	5752.5	5736.0	5472.6	5057.7	4629.6	4142.3	3957.9	4030.3	4441.9	4662.6	4488.0
42.5°	6769.9	6737.0	6289.2	5884.2	5406.7	5008.3	4632.9	4619.8	4955.6	5212.5	4958.9
45°	7691.9	7642.5	7336.3	6944.4	6420.9	5963.2	5456.1	5340.9	5574.7	5792.0	5495.6
47.5°	8426.2	8343.9	8126.6	7919.1	7790.7	7079.5	6318.8	6144.3	6262.8	6424.2	6006.0
50°	9295.5	9068.3	8752.2	8627.1	8893.8	8343.9	7148.6	6980.7	6974.1	7066.3	6532.9
52.5°	9690.6	9279.0	9101.2	9206.6	9677.4	9519.4	8044.2	7803.9	7708.4	7718.2	7023.5
55°	9213.2	9167.1	9262.6	9591.8	10207.6	10115.4	8903.6	8607.3	8465.7	8287.9	7494.3
57.5°	8669.9	8811.4	9190.1	9819.0	10879.3	10737.7	9749.9	9414.0	9153.9	8745.6	8017.9
60°	8169.4	8314.2	8939.9	9871.7	11248.1	11337.0	10454.5	10135.1	9749.9	9213.2	8594.1
62.5°	7408.7	7520.7	8399.9	9796.0	11086.8	11686.0	10945.2	10704.8	10345.9	9657.7	9256.0
65°	6552.6	6625.1	7494.3	9190.1	10770.6	11646.5	11350.2	11215.2	10866.1	10122.0	9911.2
67.5°	5614.2	5699.8	6424.2	8100.2	10151.6	11462.1	11732.1	11719.0	11320.5	10635.6	10385.4
70°	4534.1	4540.7	5140.0	6717.2	9071.6	11093.3	12206.3	12235.9	11755.2	11020.9	10405.1
72.5°	2169.9	2347.7	3332.3	4688.9	7372.5	10368.9	12515.8	12664.0	12028.5	11007.7	9282.3
75°	497.2	513.7	971.4	2229.2	4323.4	7958.6	11742.0	12018.6	11363.3	9519.4	6539.4
77.5°	181.1	191.0	273.3	652.0	1662.8	4112.7	8403.1	8808.2	8399.9	6154.2	3091.9
80°	121.8	118.5	141.6	289.8	763.9	1165.6	4297.1	4537.4	4142.3	2100.8	740.9
82.5°	62.6	65.9	98.8	161.3	513.7	405.0	1435.6	1560.8	1284.2	421.5	138.3
85°	29.6	29.6	56.0	102.1	217.3	141.6	319.4	385.3	345.7	184.4	46.1
87.5°	29.6	29.6	52.7	65.9	112.0	59.3	79.0	98.8	92.2	98.8	16.5
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°	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4	2209.4
2.5°	2193.0	2189.7	2186.4	2193.0	2189.7	2196.3	2196.3	2202.9	2202.9	2196.3	2193.0
5°	2163.3	2156.8	2150.2	2150.2	2146.9	2153.5	2173.2	2189.7	2193.0	2183.1	2179.8
7.5°	2166.6	2166.6	2160.1	2146.9	2123.8	2123.8	2123.8	2143.6	2153.5	2146.9	2143.6
10°	2225.9	2229.2	2212.7	2183.1	2143.6	2107.4	2038.2	1936.1	1840.7	1814.3	1804.4
12.5°	2328.0	2331.3	2298.4	2245.7	2163.3	1949.3	1685.9	1442.2	1254.5	1201.9	1192.0
15°	2449.8	2453.1	2393.8	2308.2	2058.0	1560.8	1168.9	892.3	727.7	688.2	684.9
17.5°	2574.9	2568.4	2479.5	2314.8	1745.2	1106.4	711.2	569.6	526.8	517.0	520.3
20°	2696.8	2677.0	2555.2	2193.0	1343.4	724.4	520.3	487.3	477.5	470.9	470.9
22.5°	2808.7	2769.2	2617.8	1952.6	941.7	520.3	464.3	457.7	444.5	434.6	431.4
25°	2920.7	2864.7	2657.3	1639.8	632.2	454.4	437.9	424.8	408.3	395.1	391.8
27.5°	3055.7	2976.7	2637.5	1244.7	474.2	421.5	408.3	388.5	365.5	345.7	339.2
30°	3184.1	3095.2	2525.6	859.4	405.0	388.5	368.8	339.2	309.5	286.5	279.9
32.5°	3345.5	3243.4	2324.7	563.1	352.3	339.2	319.4	283.2	243.7	217.3	210.7
35°	3575.9	3460.7	2067.9	395.1	309.5	286.5	260.1	220.6	177.8	158.1	154.8
37.5°	3898.6	3743.9	1745.2	319.4	273.3	240.4	200.9	161.3	131.7	115.2	112.0
40°	4293.8	4056.7	1386.3	283.2	243.7	200.9	151.5	115.2	95.5	82.3	82.3
42.5°	4721.8	4349.7	1020.8	260.1	214.0	164.6	112.0	82.3	69.1	62.6	59.3
45°	5163.1	4609.9	688.2	240.4	187.7	125.1	79.0	56.0	46.1	46.1	42.8
47.5°	5620.8	4784.4	444.5	217.3	158.1	92.2	52.7	39.5	32.9	32.9	32.9
50°	6075.2	4876.6	316.1	197.6	128.4	62.6	39.5	29.6	26.3	26.3	26.3
52.5°	6404.4	4817.3	253.5	171.2	98.8	46.1	29.6	23.0	19.8	19.8	19.8
55°	6690.9	4715.2	220.6	148.2	72.4	32.9	23.0	19.8	16.5	16.5	16.5
57.5°	6984.0	4583.5	197.6	125.1	52.7	23.0	16.5	13.2	13.2	13.2	13.2
60°	7250.7	4359.6	171.2	98.8	36.2	16.5	13.2	9.9	9.9	9.9	9.9
62.5°	7510.8	4168.6	148.2	75.7	26.3	13.2	6.6	6.6	3.3	3.3	3.3
65°	7659.0	3911.8	118.5	49.4	16.5	9.9	3.3	3.3	0.0	0.0	0.0
67.5°	7612.9	3605.6	82.3	29.6	9.9	6.6	3.3	0.0	0.0	0.0	0.0
70°	7293.5	3194.0	49.4	16.5	9.9	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	6108.1	2364.2	29.6	13.2	6.6	3.3	0.0	0.0	0.0	0.0	0.0
75°	4079.7	1086.6	16.5	9.9	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1867.0	326.0	9.9	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	375.4	85.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	79.0	16.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	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)