

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: P400062

Luminaire Tested: **ARCH-L-PA3-230-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400062
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-PA3-230-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA 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: 19130 lumens
Efficiency: N/A
Efficacy: 83.5 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

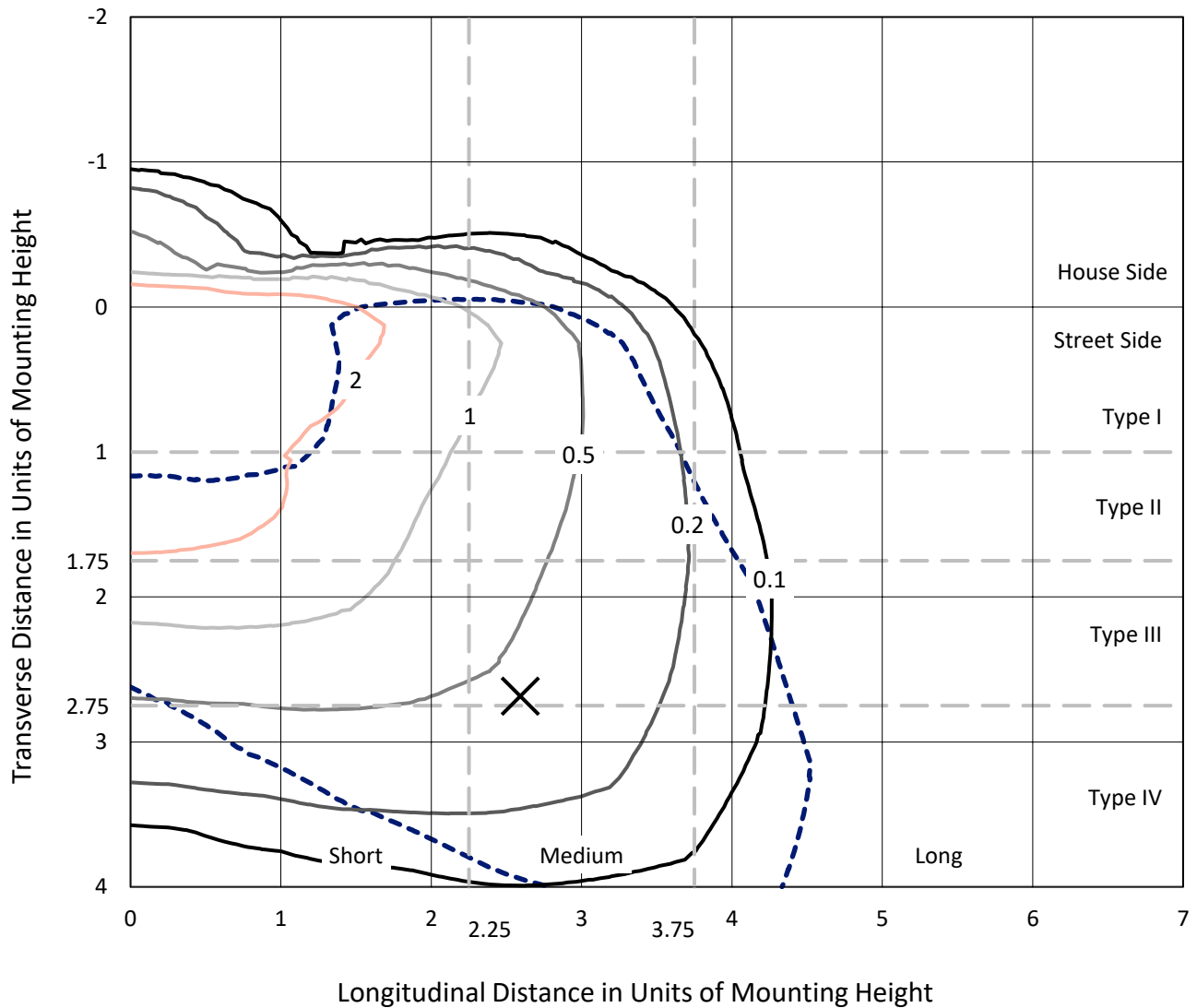
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

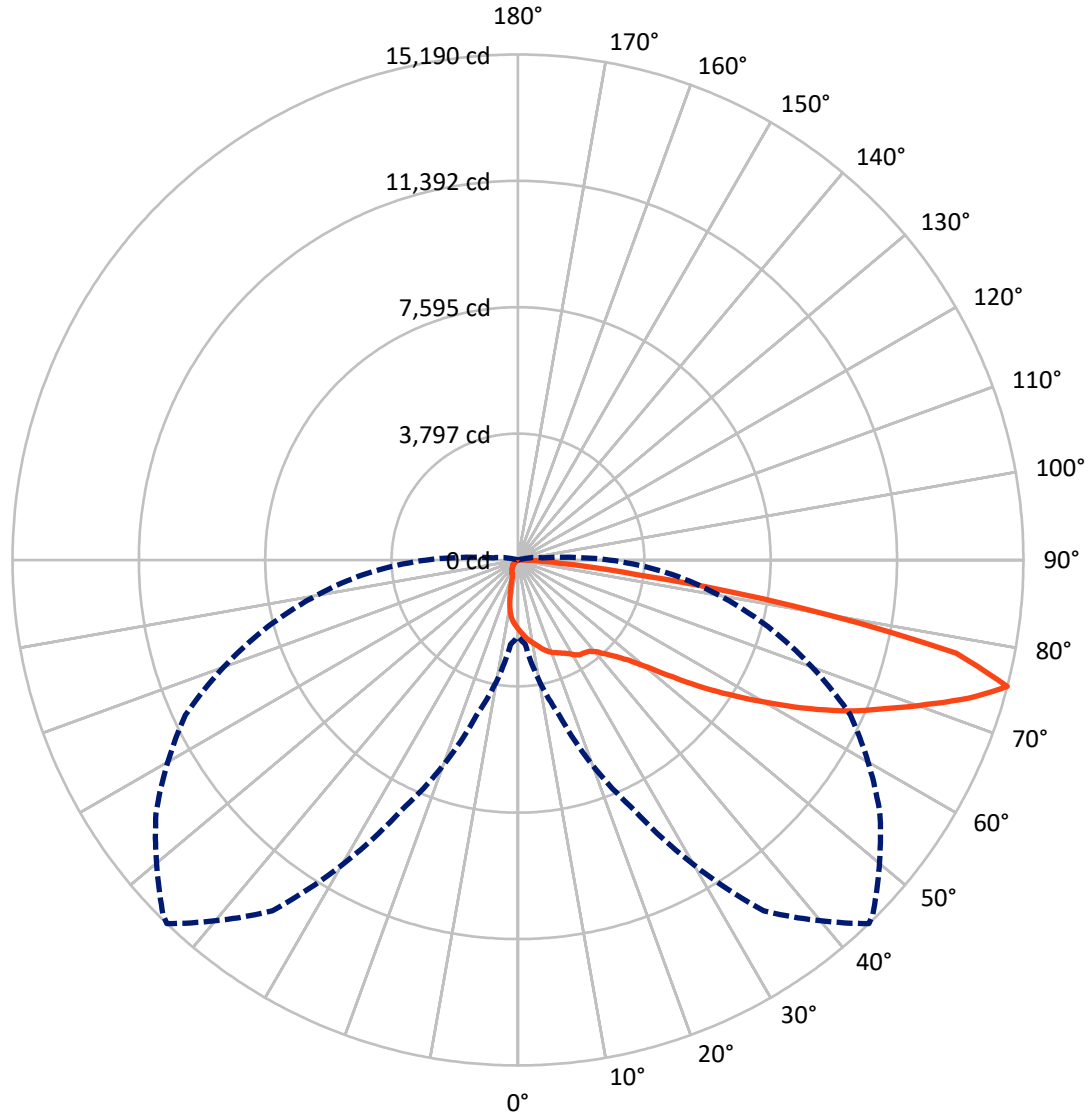
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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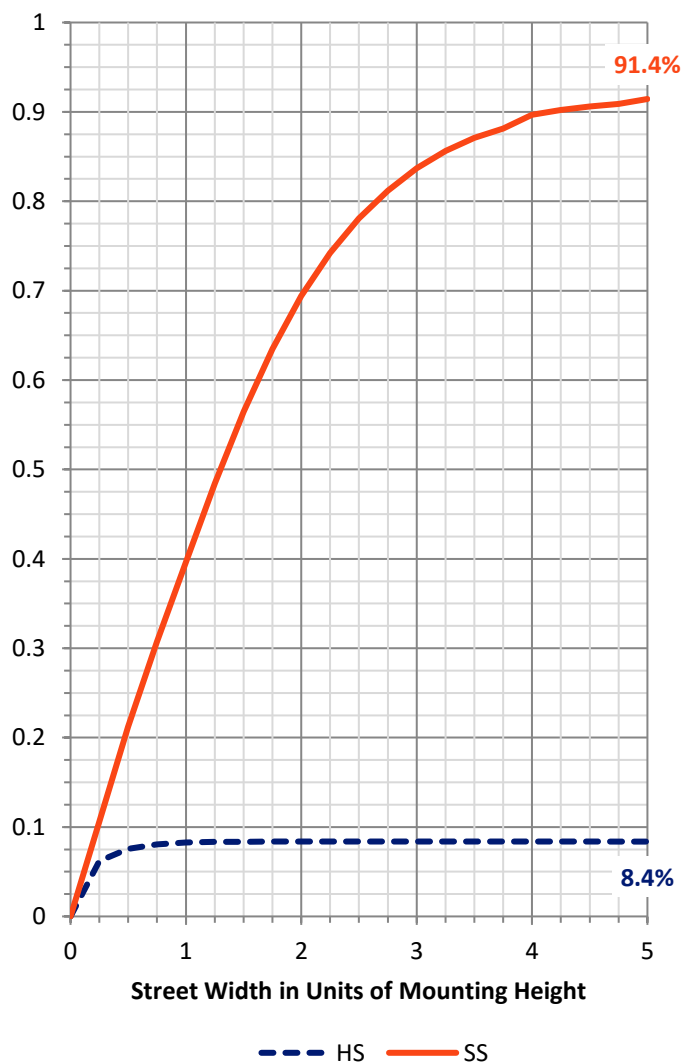
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.3	0.0	1613.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17516.7	0.0	17516.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	19130.0	0.0	19130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.0
10°-20°	550.3	2.9
20°-30°	908.1	4.7
30°-40°	1318.0	6.9
40°-50°	2142.4	11.2
50°-60°	3776.9	19.7
60°-70°	5428.2	28.4
70°-80°	4346.7	22.7
80°-90°	463.1	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°	19130.0	100.0
0°-180°	19130.0	100.0

Coefficient of Utilization



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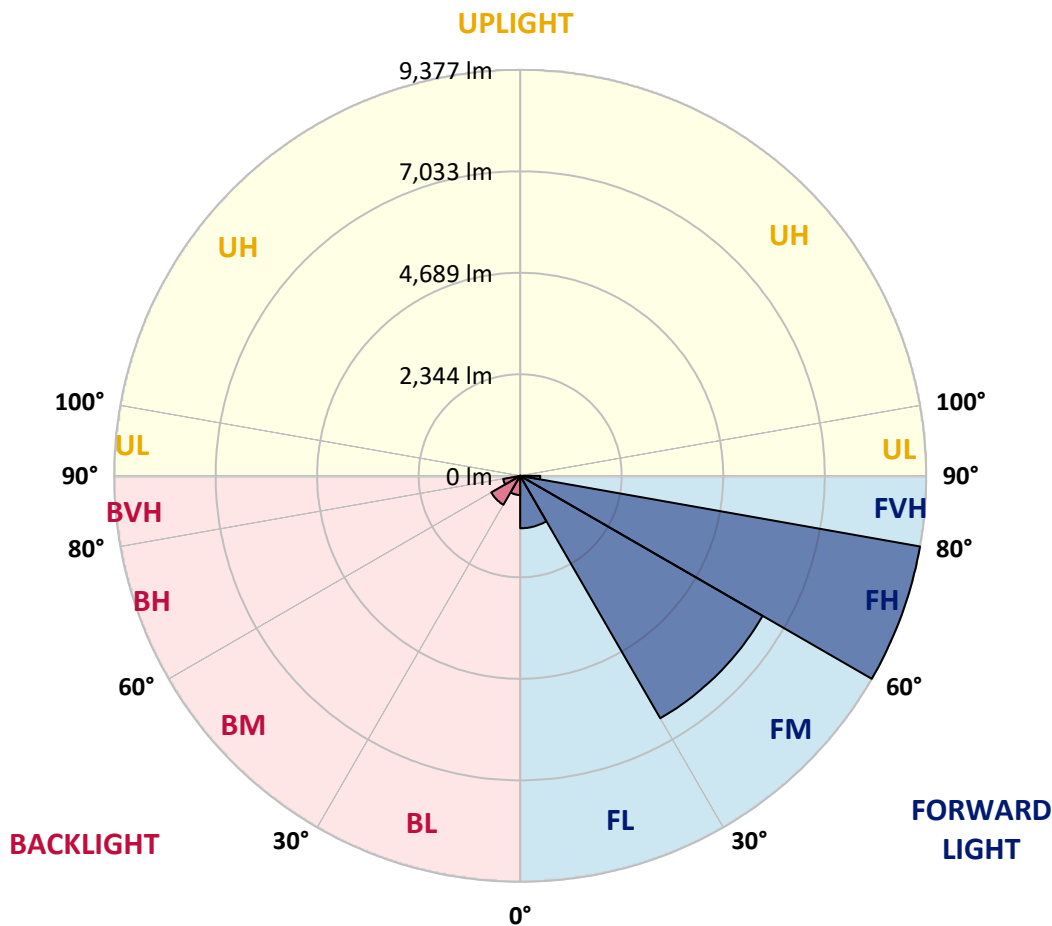
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.5	6.3			
FM (30°-60°)	6466.1	33.8			
FH (60°-80°)	9377.2	49.0			G4/12000
FVH (80°-90°)	461.9	2.4			G3/500
BL (0°-30°)	443.2	2.3	B1/500		
BM (30°-60°)	771.2	4.0	B1/1000		
BH (60°-80°)	397.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2
2.5°	2269.3	2265.7	2255.2	2237.5	2219.9	2202.2	2198.7	2170.5	2138.7	2114.0	2092.8
5°	2470.4	2466.9	2449.3	2410.4	2371.6	2325.7	2322.2	2255.2	2195.2	2128.1	2071.6
7.5°	2678.7	2671.6	2639.8	2579.8	2512.8	2442.2	2435.1	2336.3	2248.1	2159.9	2078.7
10°	2841.0	2833.9	2788.1	2717.5	2625.7	2537.5	2526.9	2424.6	2336.3	2223.4	2114.0
12.5°	2999.8	2985.7	2925.7	2848.1	2735.1	2650.4	2639.8	2534.0	2428.1	2311.6	2177.5
15°	3148.0	3130.4	3073.9	2975.1	2855.1	2774.0	2766.9	2654.0	2544.6	2410.4	2262.2
17.5°	3250.4	3243.3	3176.3	3066.9	2950.4	2883.4	2876.3	2759.8	2650.4	2509.3	2350.4
20°	3303.3	3303.3	3239.8	3119.8	3013.9	2968.1	2957.5	2848.1	2742.2	2608.1	2442.2
22.5°	3313.9	3324.5	3275.1	3144.5	3066.9	3028.1	3021.0	2925.7	2823.4	2699.8	2544.6
25°	3335.1	3335.1	3310.4	3169.2	3112.8	3102.2	3098.6	3013.9	2922.2	2798.7	2646.9
27.5°	3359.8	3359.8	3342.2	3204.5	3183.3	3179.8	3176.3	3137.5	3063.3	2918.6	2766.9
30°	3423.3	3426.9	3412.7	3275.1	3261.0	3299.8	3306.9	3285.7	3193.9	3013.9	2890.4
32.5°	3582.1	3550.4	3511.6	3324.5	3349.2	3398.6	3402.1	3359.8	3261.0	3116.3	3038.6
35°	3980.9	3793.9	3617.4	3366.9	3377.4	3426.9	3433.9	3430.4	3370.4	3246.9	3208.0
37.5°	4351.5	4086.8	3836.2	3465.7	3430.4	3483.3	3497.4	3557.4	3511.6	3426.9	3437.4
40°	4566.8	4464.4	4288.0	3737.4	3536.3	3617.4	3631.5	3723.3	3705.7	3670.4	3737.4
42.5°	5230.3	5237.3	5046.8	4143.3	3730.4	3860.9	3878.6	3952.7	3977.4	3995.1	4157.4
45°	5999.6	6024.3	5978.5	4873.8	4097.4	4139.8	4164.5	4263.3	4355.0	4468.0	4764.4
47.5°	6924.3	6903.1	6733.7	5766.7	4736.2	4499.7	4517.4	4708.0	4866.8	5113.8	5537.3
50°	7743.1	7796.0	7474.8	6599.6	5636.1	5067.9	5050.3	5237.3	5523.2	5869.1	6402.0
52.5°	8568.9	8491.3	8057.2	7425.4	6702.0	5840.8	5787.9	5890.2	6292.6	6702.0	7249.0
55°	8787.7	8794.8	8646.5	8328.9	7591.3	6779.6	6691.4	6684.3	7185.5	7464.3	8138.3
57.5°	9218.3	9235.9	9271.2	9334.7	8985.3	7718.4	7626.6	7527.8	8014.8	8177.2	9031.2
60°	9655.9	9677.1	9892.3	10234.7	10001.8	8731.2	8632.4	8399.5	8671.2	8890.1	9970.0
62.5°	9599.4	9747.7	10372.3	11053.5	11025.2	9842.9	9719.4	9158.3	9331.2	9521.8	10831.1
65°	8667.7	8826.5	10231.2	11279.3	12052.2	10940.5	10739.4	9941.8	9952.3	10181.7	11660.5
67.5°	7834.8	8007.8	9348.9	11184.0	12729.8	11925.2	11716.9	10728.8	10562.9	10944.0	12105.2
70°	7354.9	7527.8	8646.5	10887.6	12920.4	13015.7	12835.7	11628.7	11289.9	11639.3	11607.5
72.5°	5756.1	6027.9	7750.1	10322.9	13125.1	14183.9	14042.7	12768.6	11907.5	10912.3	8837.1
75°	2294.0	2544.6	4838.5	8307.7	12867.5	15189.7	15080.3	13280.4	11021.7	7792.5	4524.4
77.5°	691.7	741.1	1344.6	4108.0	9433.6	13467.4	13432.1	11166.4	7799.5	3617.4	1235.2
80°	229.4	254.1	412.9	1132.9	4305.6	8413.6	8572.4	7114.9	3543.3	829.4	250.6
82.5°	95.3	105.9	208.2	455.3	1524.6	3624.5	3571.6	3186.9	1235.2	515.3	91.8
85°	24.7	31.8	95.3	261.2	557.6	1249.3	1312.9	1069.3	698.8	427.0	28.2
87.5°	0.0	0.0	45.9	105.9	250.6	377.6	395.3	324.7	395.3	321.2	14.1
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°	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2	2082.2
2.5°	2075.2	2057.5	2025.8	2004.6	1976.4	1969.3	1955.2	1937.5	1934.0	1916.4	1919.9
5°	2039.9	2011.6	1955.2	1916.4	1870.5	1856.4	1831.7	1814.0	1799.9	1775.2	1778.7
7.5°	2032.8	1990.5	1912.8	1838.7	1764.6	1711.7	1637.5	1577.6	1528.1	1475.2	1485.8
10°	2057.5	2004.6	1895.2	1792.8	1658.7	1489.3	1295.2	1168.2	1104.6	1041.1	1048.2
12.5°	2106.9	2043.4	1902.2	1747.0	1475.2	1185.8	917.6	744.7	698.8	670.5	674.1
15°	2181.0	2103.4	1923.4	1658.7	1228.2	857.6	610.6	536.4	554.1	564.7	564.7
17.5°	2258.7	2170.5	1941.1	1499.9	949.4	600.0	497.6	490.6	515.3	540.0	540.0
20°	2354.0	2241.0	1944.6	1298.7	684.7	487.0	469.4	469.4	487.0	515.3	515.3
22.5°	2445.7	2318.7	1912.8	1069.3	522.3	451.7	451.7	451.7	462.3	490.6	494.1
25°	2555.1	2414.0	1845.8	825.8	448.2	430.6	430.6	434.1	441.1	465.9	469.4
27.5°	2671.6	2512.8	1732.8	603.5	409.4	405.9	409.4	412.9	416.4	441.1	448.2
30°	2805.7	2622.2	1588.1	451.7	374.1	374.1	384.7	391.7	391.7	412.9	420.0
32.5°	2961.0	2766.9	1415.2	374.1	338.8	335.3	352.9	363.5	363.5	381.2	388.2
35°	3155.1	2915.1	1207.0	331.7	310.6	303.5	310.6	328.2	335.3	349.4	352.9
37.5°	3412.7	3091.6	984.6	307.0	289.4	275.3	275.3	278.8	292.9	307.0	310.6
40°	3741.0	3285.7	765.8	289.4	268.2	254.1	243.5	240.0	236.5	247.0	254.1
42.5°	4153.9	3504.5	571.7	271.7	250.6	229.4	215.3	201.2	183.5	180.0	183.5
45°	4683.2	3772.7	423.5	257.6	240.0	208.2	183.5	158.8	127.1	116.5	120.0
47.5°	5307.9	4051.5	331.7	243.5	232.9	183.5	151.8	109.4	77.6	70.6	74.1
50°	5971.4	4319.7	282.3	225.9	218.8	158.8	109.4	67.1	45.9	45.9	49.4
52.5°	6536.1	4471.5	257.6	211.8	197.6	130.6	70.6	38.8	28.2	28.2	31.8
55°	7083.1	4552.7	240.0	197.6	169.4	91.8	38.8	24.7	17.6	17.6	17.6
57.5°	7647.8	4588.0	218.8	180.0	134.1	56.5	21.2	14.1	10.6	10.6	10.6
60°	8148.9	4520.9	187.0	148.2	88.2	28.2	10.6	10.6	7.1	3.5	3.5
62.5°	8568.9	4393.9	130.6	105.9	52.9	14.1	7.1	3.5	0.0	0.0	0.0
65°	8826.5	4189.2	84.7	70.6	31.8	10.6	3.5	0.0	0.0	0.0	0.0
67.5°	8752.4	3804.5	52.9	45.9	14.1	7.1	3.5	0.0	0.0	0.0	0.0
70°	7898.3	3119.8	38.8	28.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0
72.5°	5692.6	2110.5	28.2	17.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2738.7	751.7	17.6	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	670.5	165.9	10.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	148.2	31.8	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.4	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.5	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)