

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: P399711

Luminaire Tested: **ARCH-L-PA3-180-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399711
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-PA3-180-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 775mA 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: 17558 lumens
Efficiency: N/A
Efficacy: 97.0 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

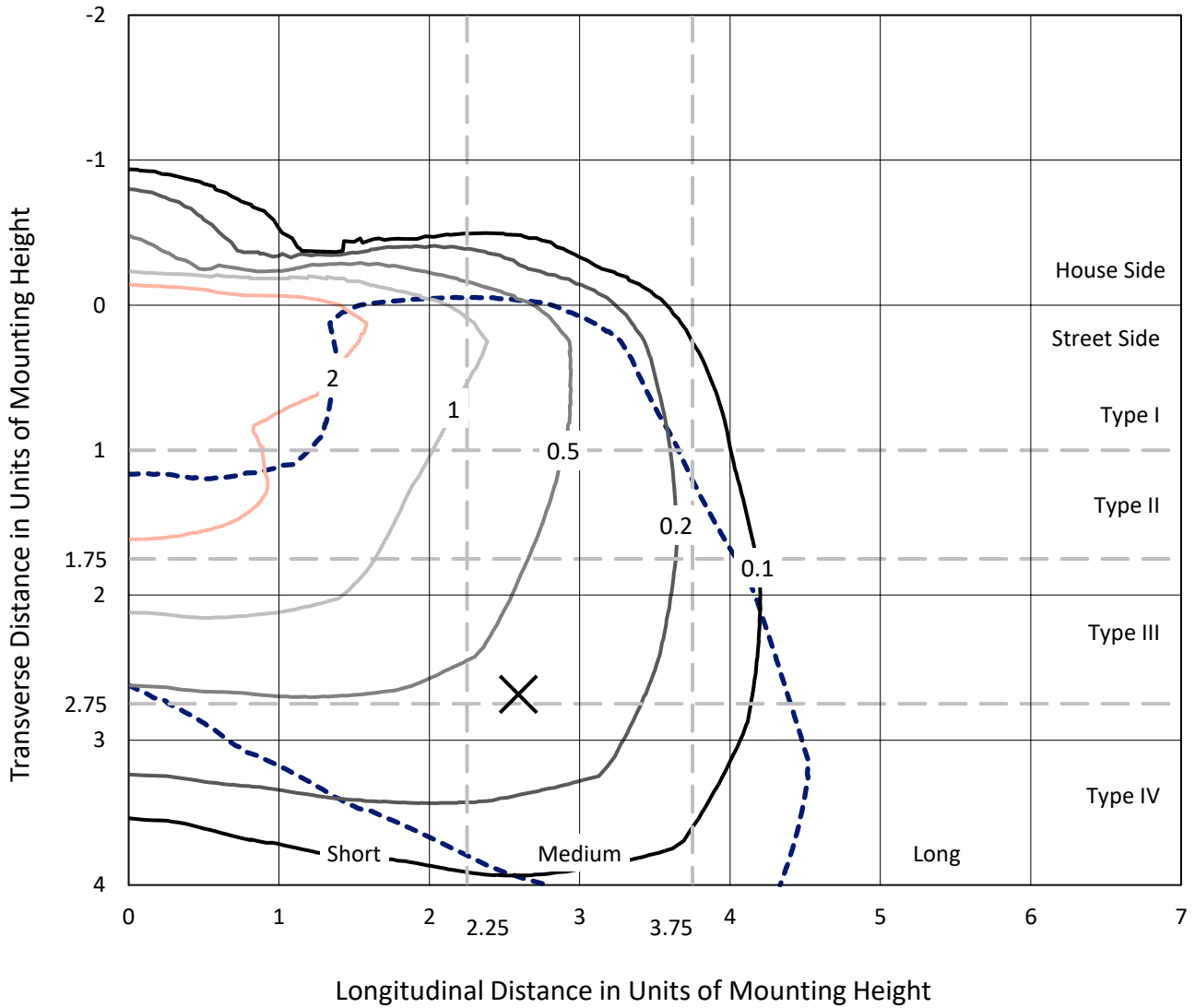
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

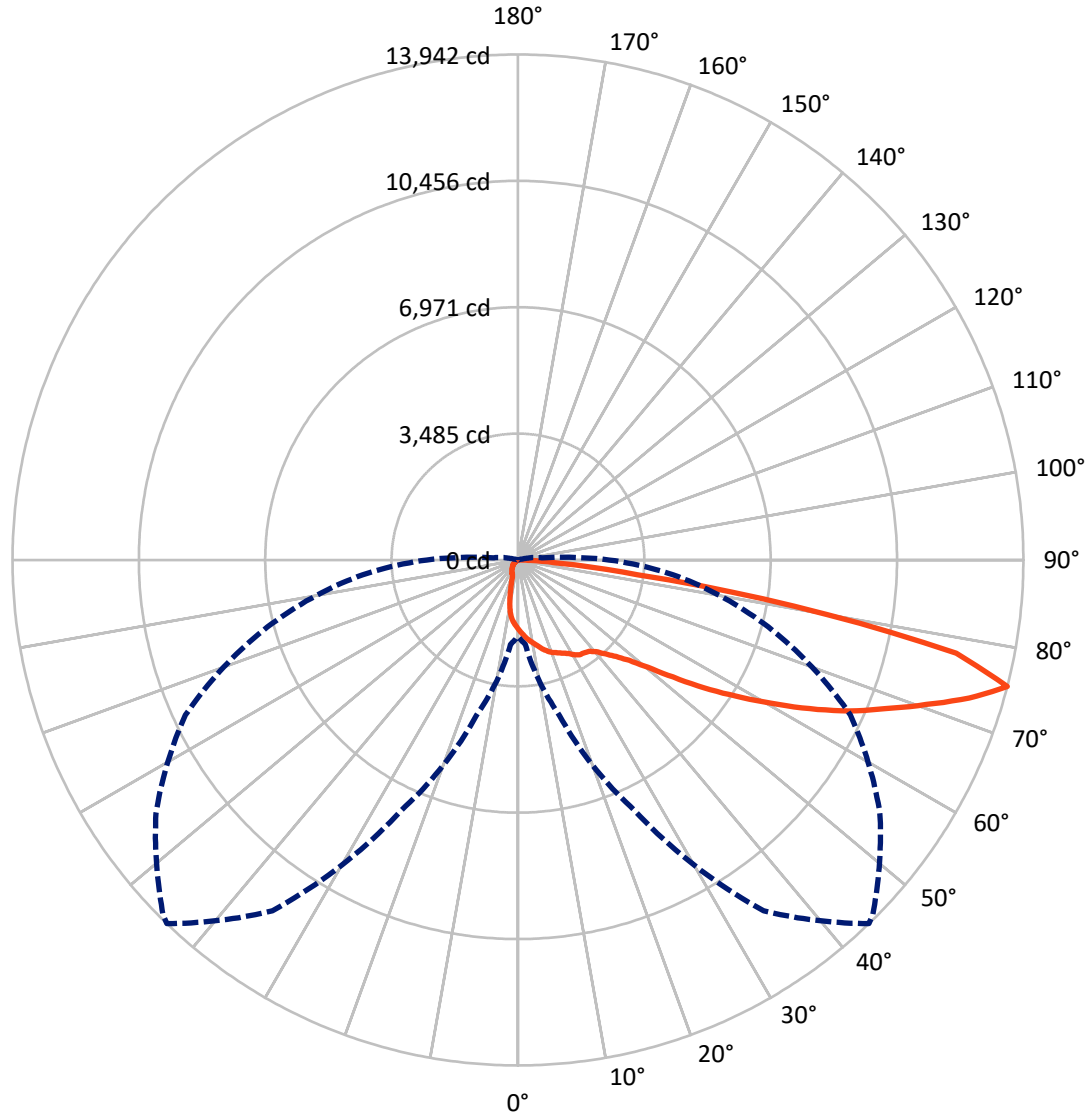
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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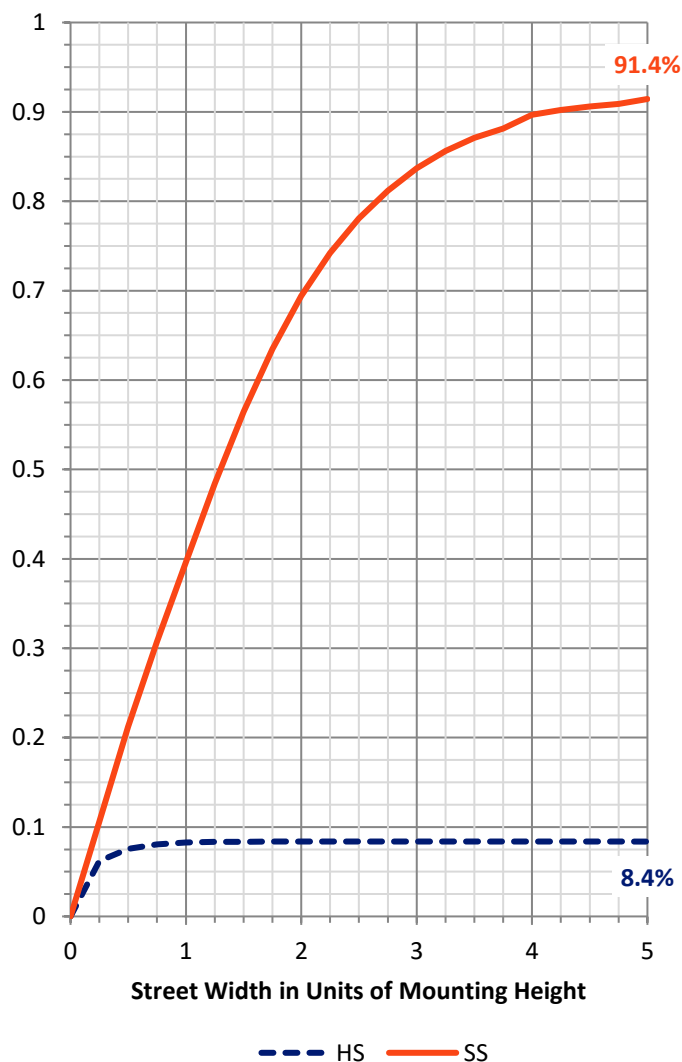
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1480.7	0.0	1480.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	16077.3	0.0	16077.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	17558.0	0.0	17558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.2	1.0
10°-20°	505.0	2.9
20°-30°	833.5	4.7
30°-40°	1209.7	6.9
40°-50°	1966.4	11.2
50°-60°	3466.5	19.7
60°-70°	4982.1	28.4
70°-80°	3989.5	22.7
80°-90°	425.1	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°	17558.0	100.0
0°-180°	17558.0	100.0

Coefficient of Utilization



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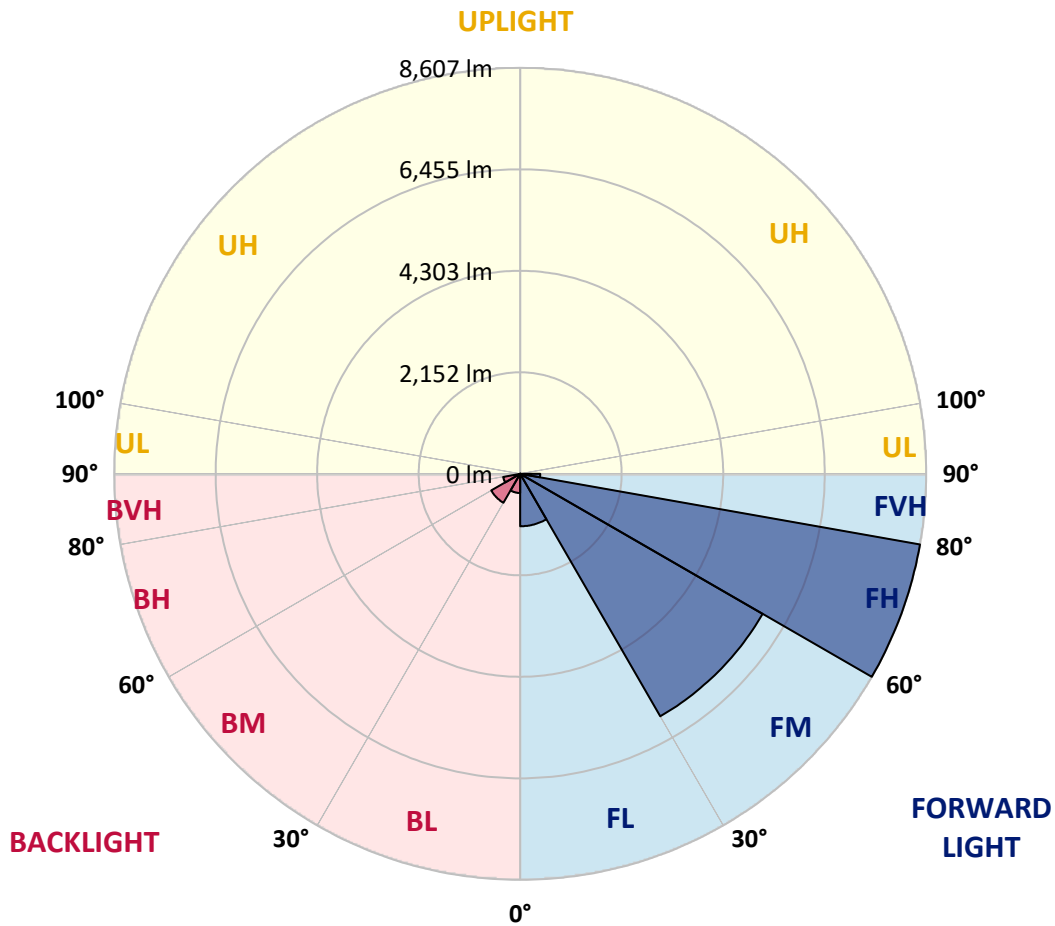
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.9	6.3			
FM (30°-60°)	5934.8	33.8			
FH (60°-80°)	8606.6	49.0			G4/12000
FVH (80°-90°)	424.0	2.4			G3/500
BL (0°-30°)	406.8	2.3	B1/500		
BM (30°-60°)	707.8	4.0	B1/1000		
BH (60°-80°)	365.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1
2.5°	2082.8	2079.6	2069.8	2053.6	2037.5	2021.3	2018.0	1992.1	1962.9	1940.3	1920.8
5°	2267.4	2264.2	2248.0	2212.4	2176.7	2134.6	2131.4	2069.8	2014.8	1953.2	1901.4
7.5°	2458.5	2452.1	2422.9	2367.8	2306.3	2241.5	2235.0	2144.3	2063.4	1982.4	1907.9
10°	2607.5	2601.1	2559.0	2494.2	2410.0	2329.0	2319.3	2225.3	2144.3	2040.7	1940.3
12.5°	2753.3	2740.4	2685.3	2614.0	2510.4	2432.6	2422.9	2325.7	2228.6	2121.7	1998.6
15°	2889.4	2873.2	2821.3	2730.6	2620.5	2546.0	2539.5	2435.9	2335.5	2212.4	2076.3
17.5°	2983.3	2976.8	2915.3	2814.9	2708.0	2646.4	2639.9	2533.0	2432.6	2303.1	2157.3
20°	3031.9	3031.9	2973.6	2863.4	2766.3	2724.2	2714.4	2614.0	2516.9	2393.8	2241.5
22.5°	3041.6	3051.3	3006.0	2886.1	2814.9	2779.2	2772.7	2685.3	2591.4	2478.0	2335.5
25°	3061.0	3061.0	3038.4	2908.8	2857.0	2847.2	2844.0	2766.3	2682.0	2568.7	2429.4
27.5°	3083.7	3083.7	3067.5	2941.2	2921.7	2918.5	2915.3	2879.6	2811.6	2678.8	2539.5
30°	3142.0	3145.3	3132.3	3006.0	2993.0	3028.6	3035.1	3015.7	2931.5	2766.3	2652.9
32.5°	3287.8	3258.6	3223.0	3051.3	3074.0	3119.3	3122.6	3083.7	2993.0	2860.2	2788.9
35°	3653.8	3482.1	3320.2	3090.2	3099.9	3145.3	3151.7	3148.5	3093.4	2980.1	2944.4
37.5°	3993.9	3751.0	3521.0	3180.9	3148.5	3197.1	3210.0	3265.1	3223.0	3145.3	3155.0
40°	4191.5	4097.6	3935.6	3430.3	3245.7	3320.2	3333.1	3417.3	3401.1	3368.8	3430.3
42.5°	4800.5	4807.0	4632.0	3802.8	3423.8	3543.7	3559.9	3627.9	3650.6	3666.8	3815.8
45°	5506.6	5529.3	5487.2	4473.3	3760.7	3799.6	3822.2	3912.9	3997.2	4100.8	4372.9
47.5°	6355.3	6335.9	6180.4	5292.8	4347.0	4130.0	4146.2	4321.1	4466.8	4693.6	5082.3
50°	7106.8	7155.4	6860.6	6057.3	5173.0	4651.5	4635.3	4807.0	5069.3	5386.8	5875.9
52.5°	7864.8	7793.5	7395.1	6815.3	6151.2	5360.9	5312.3	5406.2	5775.5	6151.2	6653.3
55°	8065.6	8072.1	7936.0	7644.5	6967.5	6222.5	6141.5	6135.0	6595.0	6850.9	7469.6
57.5°	8460.8	8477.0	8509.4	8567.7	8247.0	7084.1	6999.9	6909.2	7356.2	7505.2	8289.1
60°	8862.4	8881.9	9079.4	9393.6	9179.9	8013.8	7923.1	7709.3	7958.7	8159.5	9150.7
62.5°	8810.6	8946.6	9520.0	10145.1	10119.2	9034.1	8920.7	8405.7	8564.4	8739.3	9941.1
65°	7955.4	8101.2	9390.4	10352.4	11061.8	10041.5	9856.9	9124.8	9134.5	9345.1	10702.3
67.5°	7191.0	7349.7	8580.6	10265.0	11683.8	10945.2	10754.1	9847.1	9694.9	10044.7	11110.4
70°	6750.5	6909.2	7936.0	9992.9	11858.7	11946.1	11780.9	10673.1	10362.2	10682.8	10653.7
72.5°	5283.1	5532.5	7113.3	9474.6	12046.5	13018.3	12888.7	11719.4	10929.0	10015.6	8110.9
75°	2105.5	2335.5	4440.9	7625.1	11810.1	13941.5	13841.1	12189.1	10116.0	7152.1	4152.6
77.5°	634.9	680.2	1234.1	3770.4	8658.4	12360.7	12328.4	10248.8	7158.6	3320.2	1133.7
80°	210.5	233.2	379.0	1039.8	3951.8	7722.2	7868.0	6530.2	3252.1	761.2	230.0
82.5°	87.5	97.2	191.1	417.9	1399.3	3326.6	3278.1	2925.0	1133.7	472.9	84.2
85°	22.7	29.2	87.5	239.7	511.8	1146.7	1205.0	981.5	641.4	391.9	25.9
87.5°	0.0	0.0	42.1	97.2	230.0	346.6	362.8	298.0	362.8	294.8	13.0
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°	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1	1911.1
2.5°	1904.6	1888.4	1859.3	1839.9	1813.9	1807.5	1794.5	1778.3	1775.1	1758.9	1762.1
5°	1872.3	1846.3	1794.5	1758.9	1716.8	1703.8	1681.1	1664.9	1652.0	1629.3	1632.6
7.5°	1865.8	1826.9	1755.6	1687.6	1619.6	1571.0	1503.0	1447.9	1402.6	1354.0	1363.7
10°	1888.4	1839.9	1739.4	1645.5	1522.4	1366.9	1188.8	1072.2	1013.9	955.6	962.0
12.5°	1933.8	1875.5	1745.9	1603.4	1354.0	1088.4	842.2	683.5	641.4	615.4	618.7
15°	2001.8	1930.6	1765.4	1522.4	1127.2	787.1	560.4	492.4	508.6	518.3	518.3
17.5°	2073.1	1992.1	1781.6	1376.7	871.3	550.7	456.7	450.2	472.9	495.6	495.6
20°	2160.5	2056.9	1784.8	1192.0	628.4	447.0	430.8	430.8	447.0	472.9	472.9
22.5°	2244.8	2128.1	1755.6	981.5	479.4	414.6	414.6	414.6	424.3	450.2	453.5
25°	2345.2	2215.6	1694.1	758.0	411.4	395.2	395.2	398.4	404.9	427.6	430.8
27.5°	2452.1	2306.3	1590.4	553.9	375.7	372.5	375.7	379.0	382.2	404.9	411.4
30°	2575.2	2406.7	1457.6	414.6	343.4	343.4	353.1	359.6	359.6	379.0	385.5
32.5°	2717.7	2539.5	1298.9	343.4	311.0	307.7	323.9	333.6	333.6	349.8	356.3
35°	2895.8	2675.6	1107.8	304.5	285.0	278.6	285.0	301.2	307.7	320.7	323.9
37.5°	3132.3	2837.5	903.7	281.8	265.6	252.7	252.7	255.9	268.9	281.8	285.0
40°	3433.5	3015.7	702.9	265.6	246.2	233.2	223.5	220.3	217.0	226.7	233.2
42.5°	3812.5	3216.5	524.7	249.4	230.0	210.5	197.6	184.6	168.4	165.2	168.4
45°	4298.4	3462.7	388.7	236.5	220.3	191.1	168.4	145.8	116.6	106.9	110.1
47.5°	4871.7	3718.6	304.5	223.5	213.8	168.4	139.3	100.4	71.3	64.8	68.0
50°	5480.7	3964.8	259.1	207.3	200.8	145.8	100.4	61.5	42.1	42.1	45.3
52.5°	5999.0	4104.1	236.5	194.4	181.4	119.9	64.8	35.6	25.9	25.9	29.2
55°	6501.1	4178.6	220.3	181.4	155.5	84.2	35.6	22.7	16.2	16.2	16.2
57.5°	7019.3	4210.9	200.8	165.2	123.1	51.8	19.4	13.0	9.7	9.7	9.7
60°	7479.3	4149.4	171.7	136.0	81.0	25.9	9.7	9.7	6.5	3.2	3.2
62.5°	7864.8	4032.8	119.9	97.2	48.6	13.0	6.5	3.2	0.0	0.0	0.0
65°	8101.2	3844.9	77.7	64.8	29.2	9.7	3.2	0.0	0.0	0.0	0.0
67.5°	8033.2	3491.8	48.6	42.1	13.0	6.5	3.2	0.0	0.0	0.0	0.0
70°	7249.3	2863.4	35.6	25.9	9.7	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	5224.8	1937.0	25.9	16.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2513.6	689.9	16.2	13.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	615.4	152.2	9.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	136.0	29.2	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.3	13.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.2	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)