

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: P400125

Luminaire Tested: **ARCH-L-PA3-240-722-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400125
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-PA3-240-722-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1030mA 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: 17384 lumens
Efficiency: N/A
Efficacy: 71.8 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

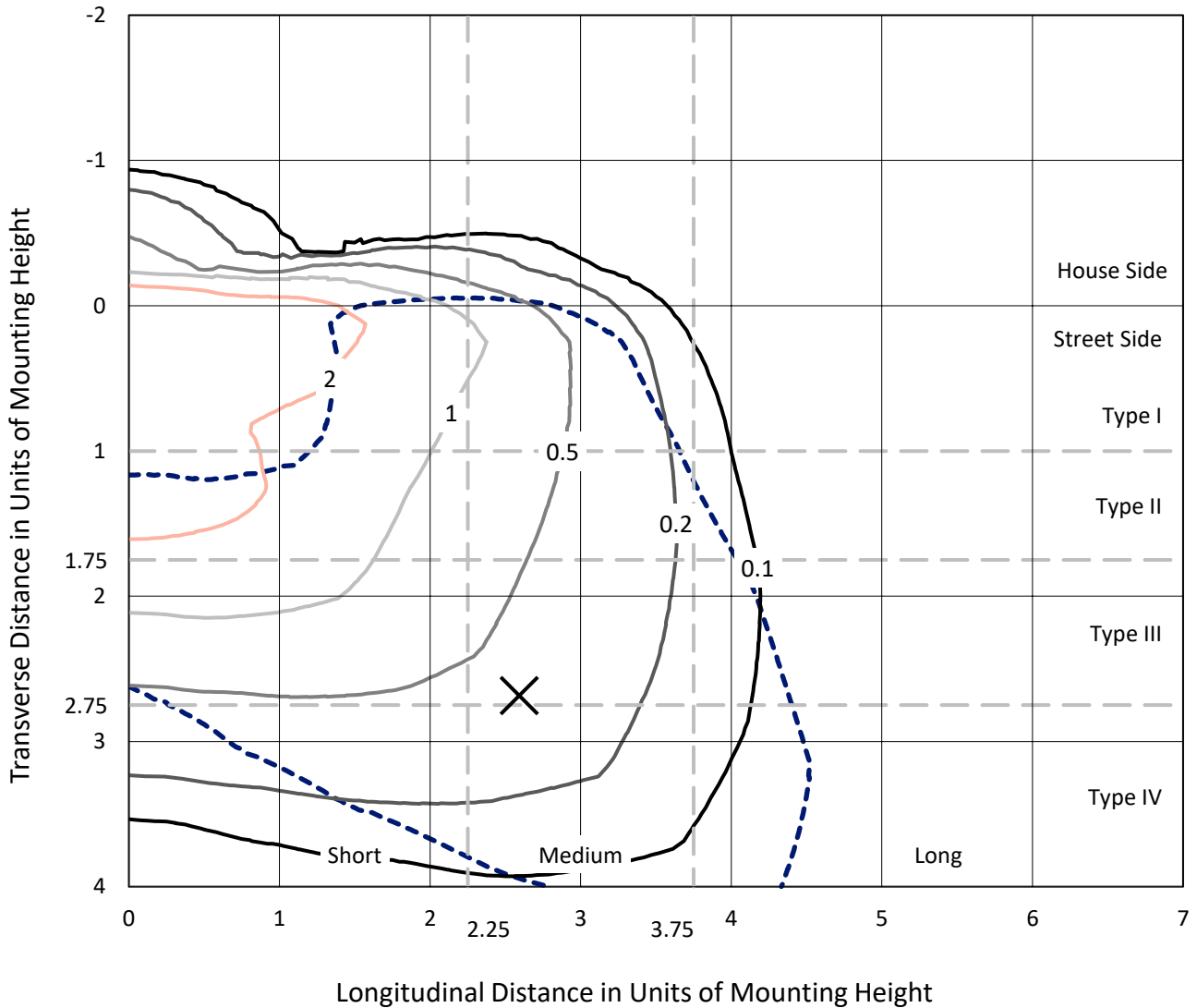
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

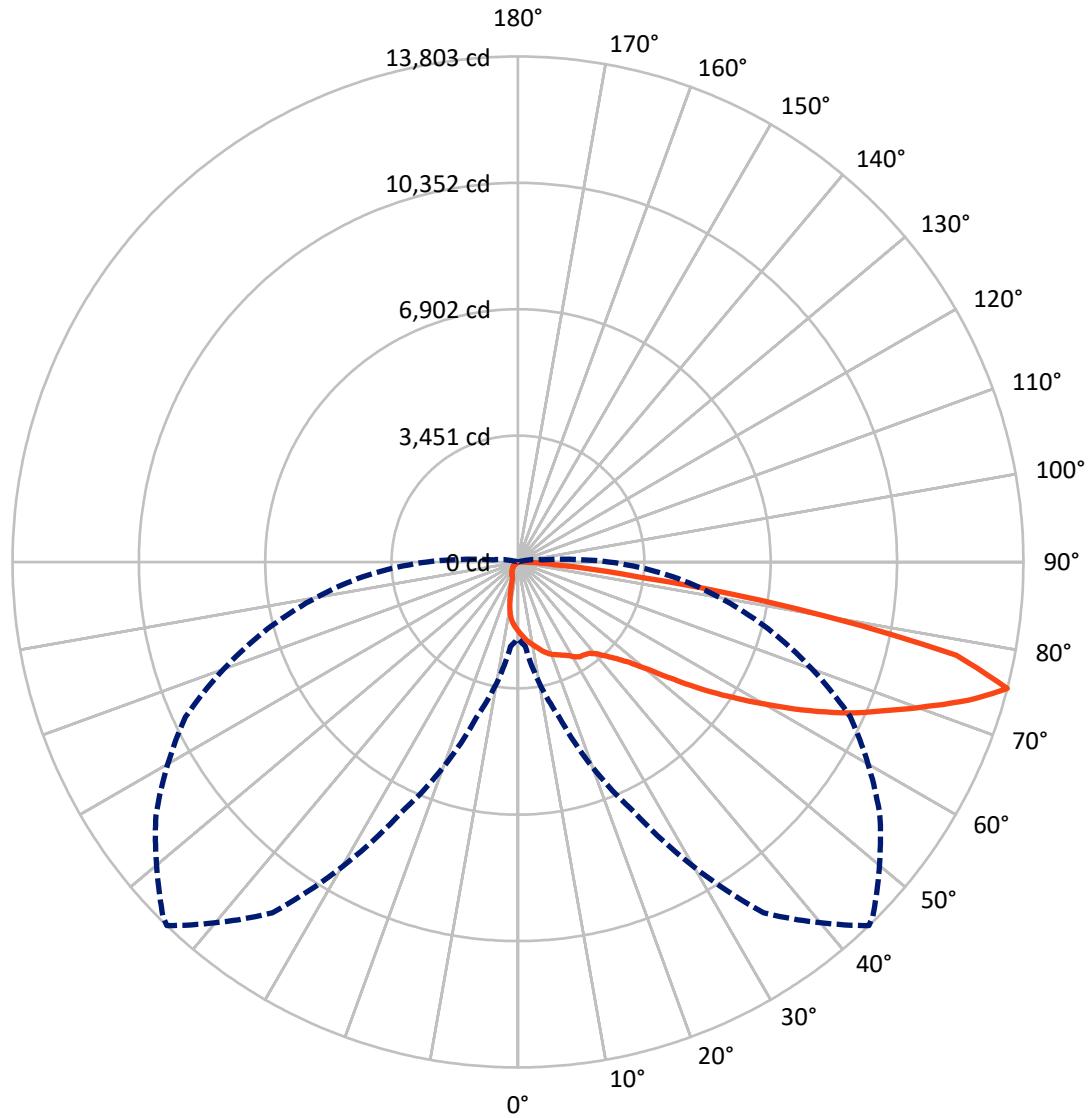
× Max cd
 - - - 1/2 Max cd



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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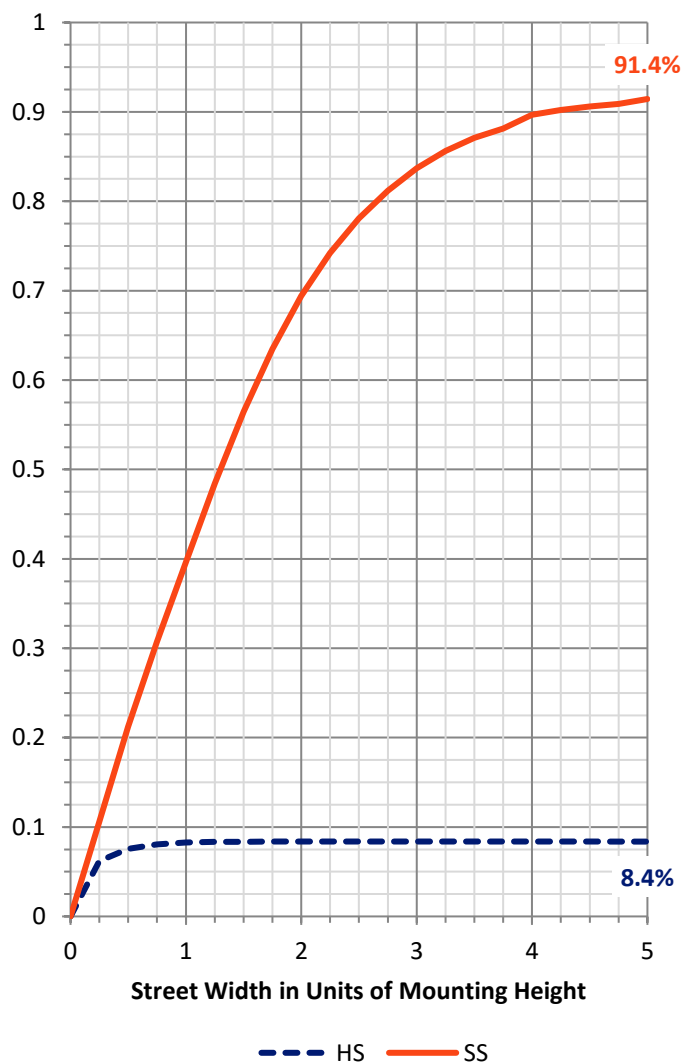
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.0	0.0	1466.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15918.0	0.0	15918.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	17384.0	0.0	17384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	1.0
10°-20°	500.0	2.9
20°-30°	825.2	4.7
30°-40°	1197.7	6.9
40°-50°	1946.9	11.2
50°-60°	3432.2	19.7
60°-70°	4932.7	28.4
70°-80°	3950.0	22.7
80°-90°	420.8	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°	17384.0	100.0
0°-180°	17384.0	100.0

Coefficient of Utilization



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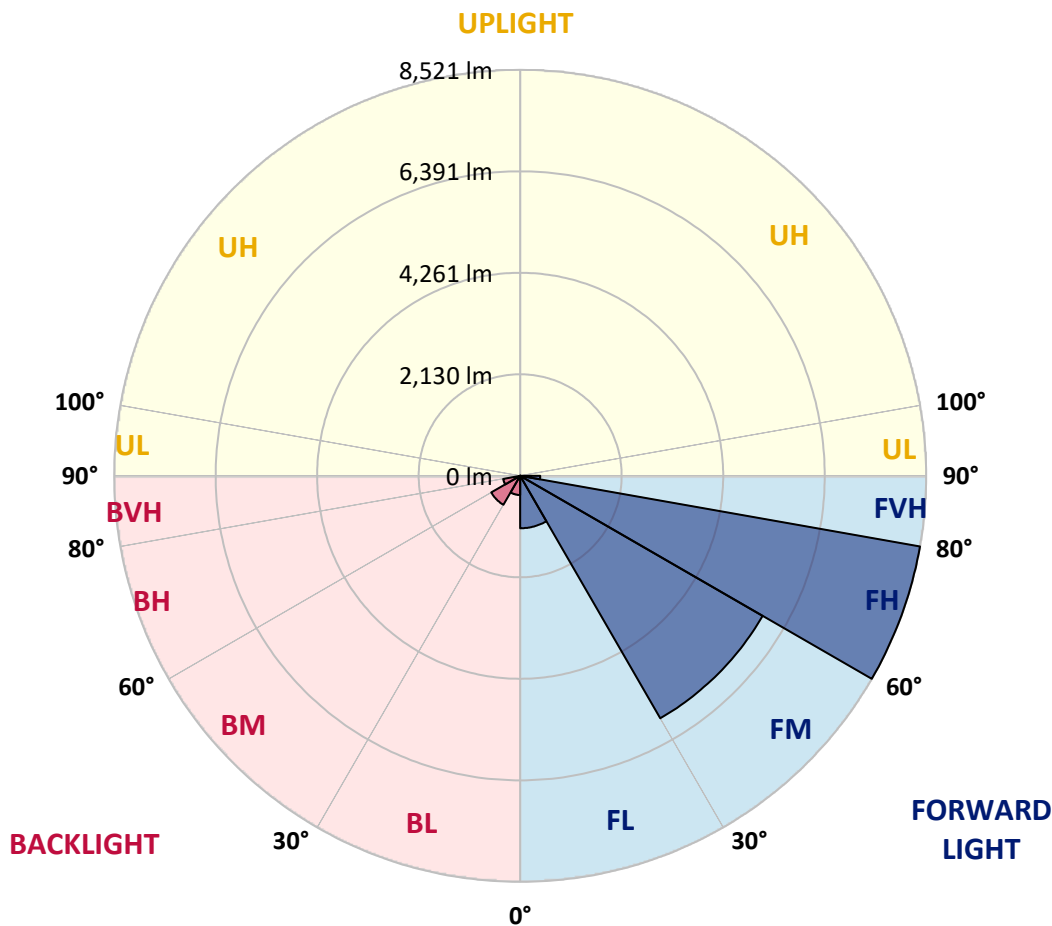
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.9	6.3			
FM (30°-60°)	5875.9	33.8			
FH (60°-80°)	8521.3	49.0			G4/12000
FVH (80°-90°)	419.8	2.4			G3/500
BL (0°-30°)	402.8	2.3	B1/500		
BM (30°-60°)	700.8	4.0	B1/1000		
BH (60°-80°)	361.4	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°	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2
2.5°	2062.2	2059.0	2049.3	2033.3	2017.3	2001.2	1998.0	1972.4	1943.5	1921.0	1901.8
5°	2245.0	2241.8	2225.7	2190.4	2155.2	2113.5	2110.3	2049.3	1994.8	1933.9	1882.6
7.5°	2434.2	2427.8	2398.9	2344.4	2283.4	2219.3	2212.9	2123.1	2042.9	1962.7	1889.0
10°	2581.7	2575.3	2533.6	2469.5	2386.1	2305.9	2296.3	2203.3	2123.1	2020.5	1921.0
12.5°	2726.0	2713.2	2658.7	2588.1	2485.5	2408.5	2398.9	2302.7	2206.5	2100.6	1978.8
15°	2860.7	2844.7	2793.4	2703.6	2594.5	2520.8	2514.4	2411.7	2312.3	2190.4	2055.7
17.5°	2953.7	2947.3	2886.4	2787.0	2681.1	2620.2	2613.8	2507.9	2408.5	2280.2	2135.9
20°	3001.8	3001.8	2944.1	2835.1	2738.9	2697.2	2687.5	2588.1	2491.9	2370.0	2219.3
22.5°	3011.5	3021.1	2976.2	2857.5	2787.0	2751.7	2745.3	2658.7	2565.7	2453.4	2312.3
25°	3030.7	3030.7	3008.2	2880.0	2828.7	2819.0	2815.8	2738.9	2655.5	2543.2	2405.3
27.5°	3053.1	3053.1	3037.1	2912.0	2892.8	2889.6	2886.4	2851.1	2783.8	2652.3	2514.4
30°	3110.9	3114.1	3101.3	2976.2	2963.4	2998.6	3005.0	2985.8	2902.4	2738.9	2626.6
32.5°	3255.2	3226.3	3191.1	3021.1	3043.5	3088.4	3091.6	3053.1	2963.4	2831.9	2761.3
35°	3617.6	3447.6	3287.3	3059.6	3069.2	3114.1	3120.5	3117.3	3062.8	2950.5	2915.2
37.5°	3954.3	3713.8	3486.1	3149.4	3117.3	3165.4	3178.2	3232.7	3191.1	3114.1	3123.7
40°	4150.0	4057.0	3896.6	3396.3	3213.5	3287.3	3300.1	3383.5	3367.4	3335.4	3396.3
42.5°	4752.9	4759.3	4586.1	3765.1	3389.9	3508.6	3524.6	3591.9	3614.4	3630.4	3778.0
45°	5452.1	5474.5	5432.8	4429.0	3723.4	3761.9	3784.4	3874.2	3957.5	4060.2	4329.6
47.5°	6292.3	6273.1	6119.1	5240.4	4303.9	4089.0	4105.1	4278.3	4422.6	4647.1	5031.9
50°	7036.4	7084.5	6792.6	5997.3	5121.7	4605.4	4589.3	4759.3	5019.1	5333.4	5817.7
52.5°	7786.8	7716.3	7321.8	6747.7	6090.3	5307.7	5259.6	5352.6	5718.2	6090.3	6587.4
55°	7985.7	7992.1	7857.4	7568.7	6898.4	6160.8	6080.6	6074.2	6529.6	6783.0	7395.5
57.5°	8376.9	8393.0	8425.0	8482.8	8165.2	7013.9	6930.5	6840.7	7283.3	7430.8	8206.9
60°	8774.6	8793.8	8989.5	9300.6	9088.9	7934.3	7844.5	7632.9	7879.8	8078.7	9060.0
62.5°	8723.3	8858.0	9425.6	10044.6	10018.9	8944.6	8832.3	8322.4	8479.5	8652.7	9842.6
65°	7876.6	8020.9	9297.4	10249.9	10952.2	9942.0	9759.2	9034.4	9044.0	9252.5	10596.2
67.5°	7119.7	7276.9	8495.6	10163.3	11568.0	10836.8	10647.5	9749.6	9598.8	9945.2	11000.3
70°	6683.6	6840.7	7857.4	9893.9	11741.2	11827.7	11664.2	10567.4	10259.5	10577.0	10548.1
72.5°	5230.8	5477.7	7042.8	9380.7	11927.2	12889.3	12761.0	11603.2	10820.7	9916.3	8030.6
75°	2084.6	2312.3	4396.9	7549.5	11693.0	13803.3	13703.9	12068.3	10015.7	7081.3	4111.5
77.5°	628.6	673.5	1221.9	3733.1	8572.5	12238.3	12206.2	10147.2	7087.7	3287.3	1122.5
80°	208.5	230.9	375.2	1029.5	3912.6	7645.7	7790.0	6465.5	3219.9	753.7	227.7
82.5°	86.6	96.2	189.2	413.7	1385.5	3293.7	3245.6	2896.0	1122.5	468.2	83.4
85°	22.4	28.9	86.6	237.3	506.7	1135.3	1193.0	971.7	635.0	388.1	25.7
87.5°	0.0	0.0	41.7	96.2	227.7	343.2	359.2	295.1	359.2	291.8	12.8
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°	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2	1892.2
2.5°	1885.8	1869.7	1840.9	1821.6	1796.0	1789.6	1776.7	1760.7	1757.5	1741.4	1744.7
5°	1853.7	1828.0	1776.7	1741.4	1699.8	1686.9	1664.5	1648.4	1635.6	1613.2	1616.4
7.5°	1847.3	1808.8	1738.2	1670.9	1603.5	1555.4	1488.1	1433.6	1388.7	1340.6	1350.2
10°	1869.7	1821.6	1722.2	1629.2	1507.3	1353.4	1177.0	1061.5	1003.8	946.1	952.5
12.5°	1914.6	1856.9	1728.6	1587.5	1340.6	1077.6	833.8	676.7	635.0	609.3	612.6
15°	1982.0	1911.4	1747.9	1507.3	1116.1	779.3	554.8	487.5	503.5	513.1	513.1
17.5°	2052.5	1972.4	1763.9	1363.0	862.7	545.2	452.2	445.8	468.2	490.7	490.7
20°	2139.1	2036.5	1767.1	1180.2	622.2	442.6	426.5	426.5	442.6	468.2	468.2
22.5°	2222.5	2107.1	1738.2	971.7	474.6	410.5	410.5	410.5	420.1	445.8	449.0
25°	2321.9	2193.6	1677.3	750.5	407.3	391.3	391.3	394.5	400.9	423.3	426.5
27.5°	2427.8	2283.4	1574.7	548.4	372.0	368.8	372.0	375.2	378.4	400.9	407.3
30°	2549.6	2382.9	1443.2	410.5	340.0	340.0	349.6	356.0	356.0	375.2	381.6
32.5°	2690.7	2514.4	1286.0	340.0	307.9	304.7	320.7	330.3	330.3	346.4	352.8
35°	2867.1	2649.1	1096.8	301.5	282.2	275.8	282.2	298.3	304.7	317.5	320.7
37.5°	3101.3	2809.4	894.8	279.0	263.0	250.2	250.2	253.4	266.2	279.0	282.2
40°	3399.5	2985.8	695.9	263.0	243.7	230.9	221.3	218.1	214.9	224.5	230.9
42.5°	3774.7	3184.6	519.5	246.9	227.7	208.5	195.6	182.8	166.8	163.6	166.8
45°	4255.8	3428.4	384.9	234.1	218.1	189.2	166.8	144.3	115.5	105.8	109.0
47.5°	4823.5	3681.7	301.5	221.3	211.7	166.8	137.9	99.4	70.6	64.1	67.3
50°	5426.4	3925.5	256.6	205.3	198.8	144.3	99.4	60.9	41.7	41.7	44.9
52.5°	5939.5	4063.4	234.1	192.4	179.6	118.7	64.1	35.3	25.7	25.7	28.9
55°	6436.6	4137.1	218.1	179.6	153.9	83.4	35.3	22.4	16.0	16.0	16.0
57.5°	6949.8	4169.2	198.8	163.6	121.9	51.3	19.2	12.8	9.6	9.6	9.6
60°	7405.2	4108.3	170.0	134.7	80.2	25.7	9.6	9.6	6.4	3.2	3.2
62.5°	7786.8	3992.8	118.7	96.2	48.1	12.8	6.4	3.2	0.0	0.0	0.0
65°	8020.9	3806.8	77.0	64.1	28.9	9.6	3.2	0.0	0.0	0.0	0.0
67.5°	7953.6	3457.2	48.1	41.7	12.8	6.4	3.2	0.0	0.0	0.0	0.0
70°	7177.5	2835.1	35.3	25.7	9.6	3.2	0.0	0.0	0.0	0.0	0.0
72.5°	5173.0	1917.8	25.7	16.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2488.7	683.1	16.0	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	609.3	150.7	9.6	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.7	28.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.9	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	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)