

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: P399446

Luminaire Tested: **ARCH-L-PA3-140-760-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-760-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15530 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

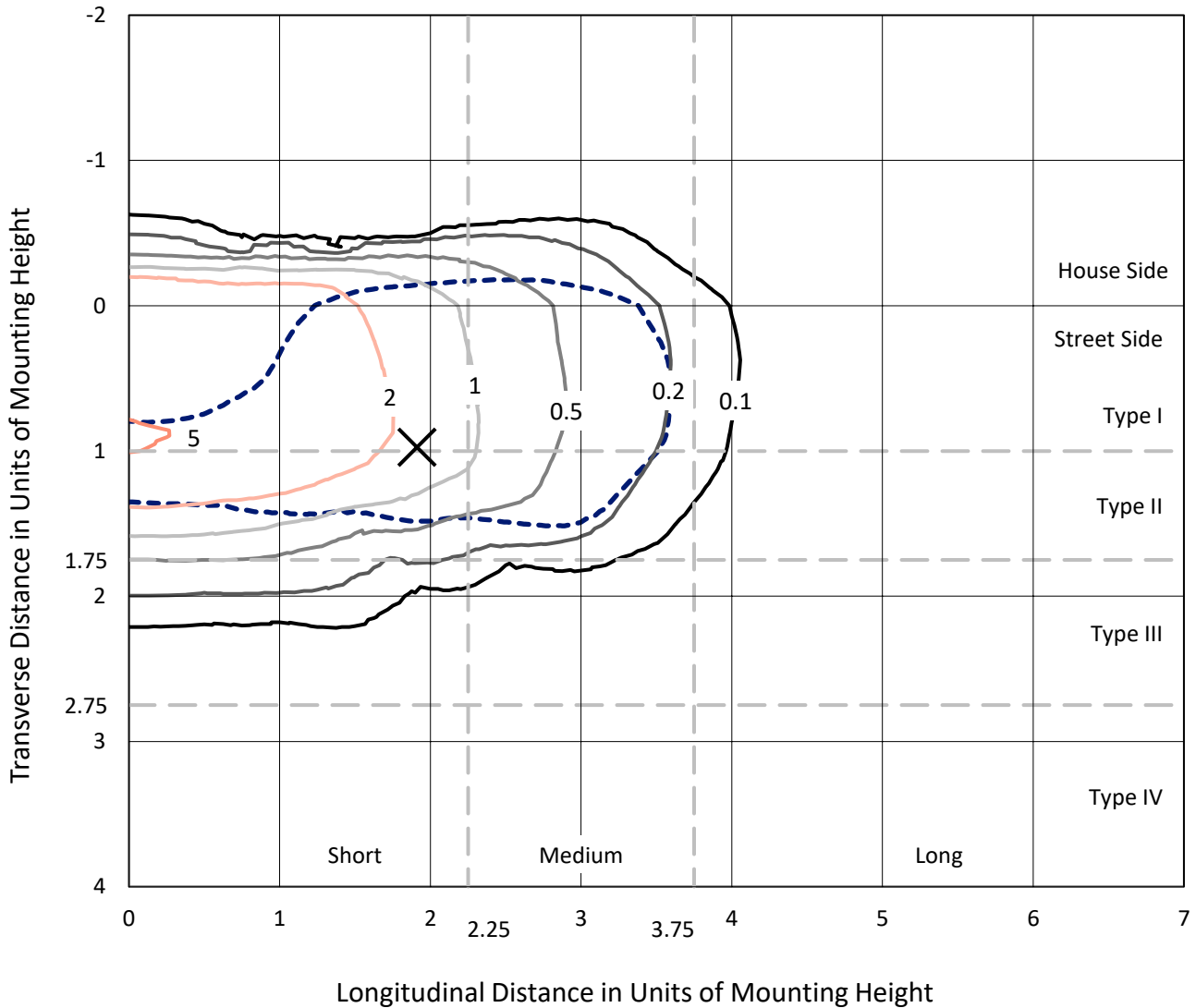
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

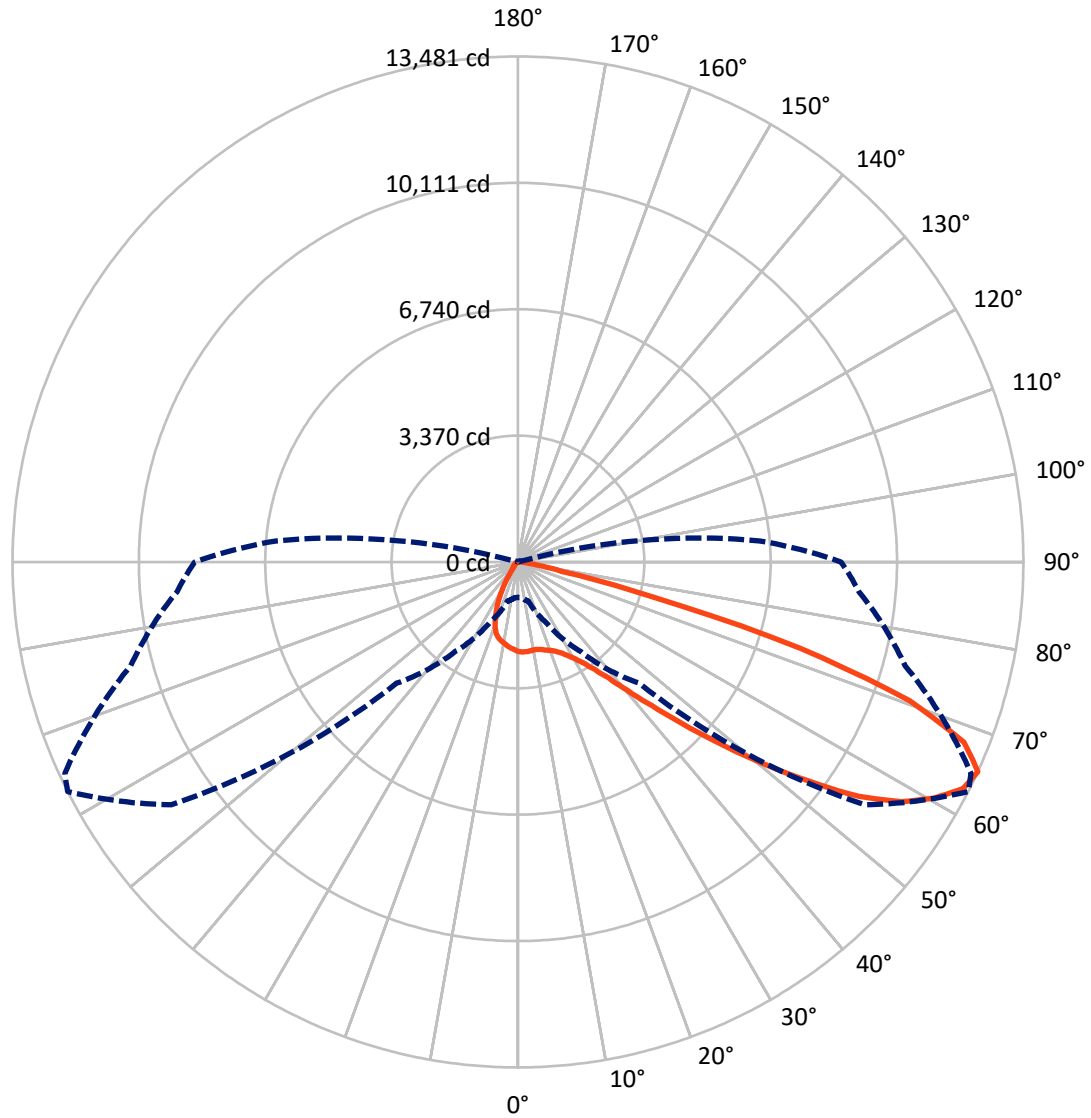
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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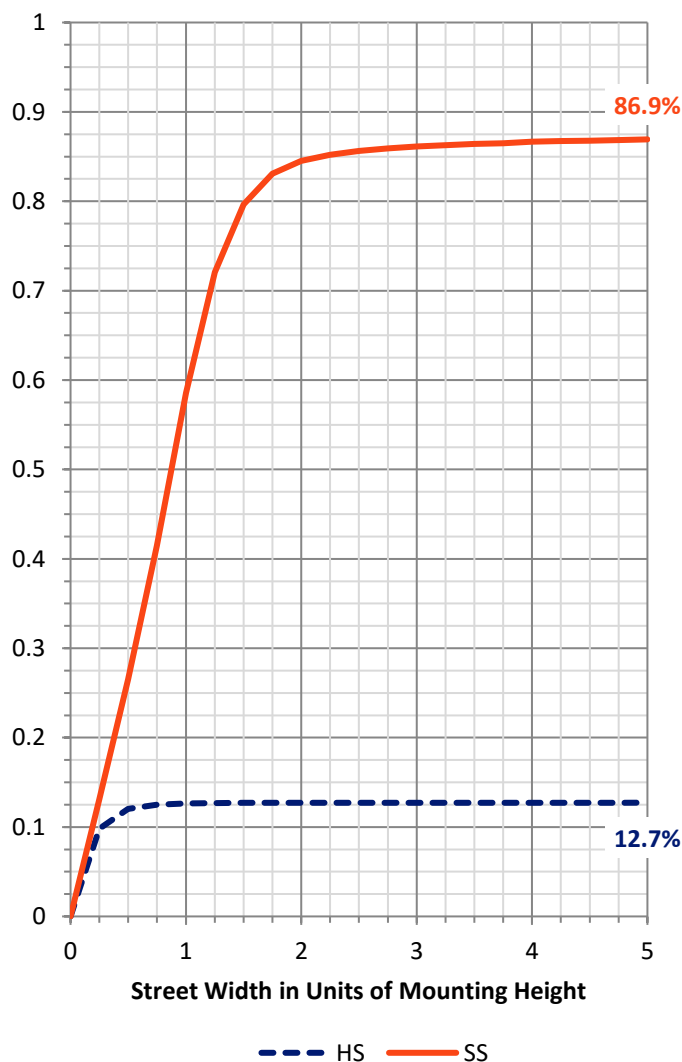
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1998.7	0.0	1998.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13531.3	0.0	13531.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	15530.0	0.0	15530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.4
10°-20°	538.5	3.5
20°-30°	798.2	5.1
30°-40°	1482.0	9.5
40°-50°	3139.6	20.2
50°-60°	4341.3	28.0
60°-70°	3475.4	22.4
70°-80°	1443.9	9.3
80°-90°	92.7	0.6
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°	15530.0	100.0
0°-180°	15530.0	100.0

Coefficient of Utilization

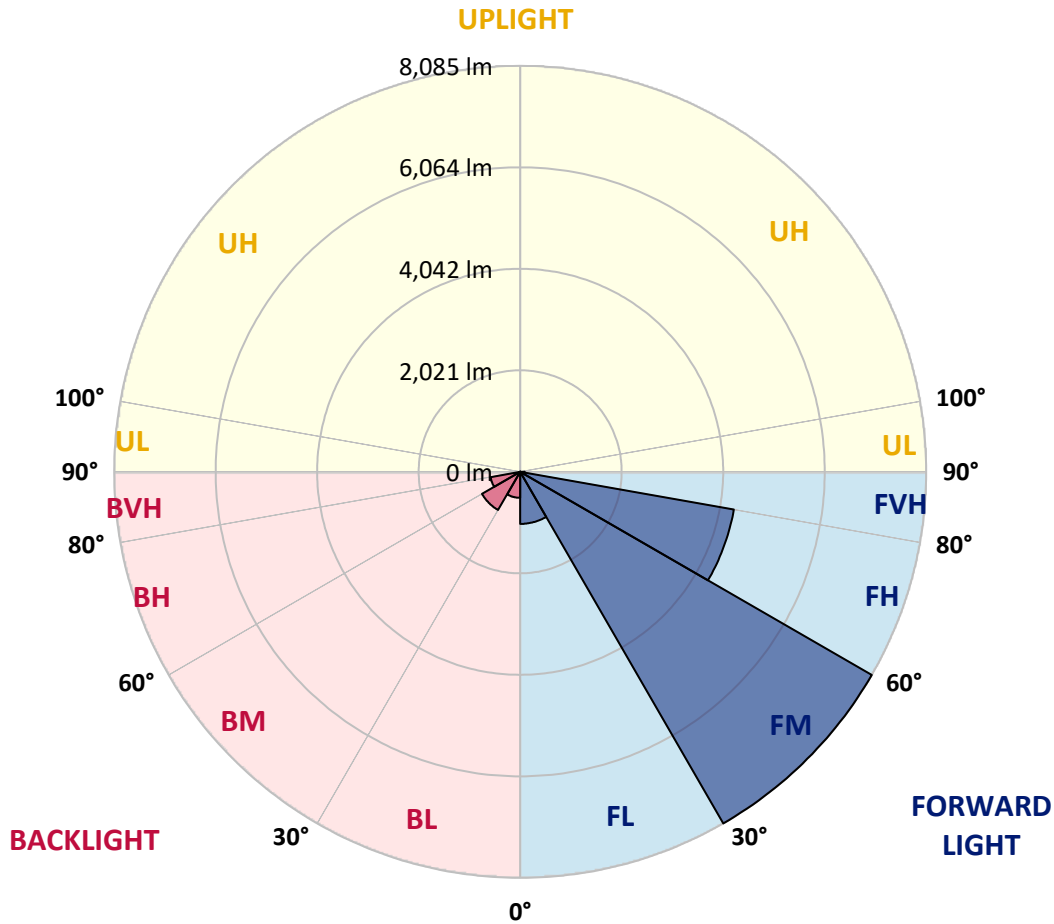


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.0	6.7			
FM (30°-60°)	8085.0	52.1			
FH (60°-80°)	4320.8	27.8			G2/5000
FVH (80°-90°)	88.5	0.6			G1/100
BL (0°-30°)	518.0	3.3	B2/1000		
BM (30°-60°)	878.0	5.7	B1/1000		
BH (60°-80°)	598.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4
2.5°	2433.5	2427.6	2421.7	2418.8	2418.8	2415.9	2404.1	2401.2	2395.3	2389.5	2383.6
5°	2410.0	2401.2	2398.3	2401.2	2404.1	2410.0	2404.1	2404.1	2398.3	2392.4	2380.7
7.5°	2351.4	2345.5	2348.4	2357.2	2360.2	2380.7	2383.6	2392.4	2392.4	2386.5	2377.7
10°	2281.0	2278.1	2278.1	2292.7	2307.4	2336.7	2357.2	2380.7	2383.6	2383.6	2368.9
12.5°	2228.2	2225.3	2234.1	2251.7	2281.0	2319.1	2354.3	2389.5	2395.3	2398.3	2374.8
15°	2196.0	2196.0	2207.7	2242.9	2283.9	2336.7	2377.7	2424.7	2430.5	2427.6	2395.3
17.5°	2166.7	2169.6	2193.0	2251.7	2298.6	2368.9	2418.8	2471.6	2474.5	2471.6	2418.8
20°	2154.9	2160.8	2196.0	2272.2	2325.0	2404.1	2468.6	2521.4	2524.3	2512.6	2442.2
22.5°	2187.2	2190.1	2234.1	2316.2	2366.0	2454.0	2536.1	2585.9	2588.8	2571.2	2477.4
25°	2298.6	2298.6	2336.7	2407.1	2451.0	2539.0	2627.0	2685.6	2685.6	2665.1	2556.6
27.5°	2559.5	2536.1	2527.3	2547.8	2562.5	2656.3	2750.1	2823.4	2820.5	2791.1	2659.2
30°	3063.8	3005.2	2911.3	2805.8	2753.0	2817.5	2905.5	2999.3	2996.4	2949.5	2785.3
32.5°	3911.1	3826.1	3603.3	3324.7	3099.0	3025.7	3107.8	3210.4	3213.3	3157.6	2987.6
35°	5098.5	4963.7	4564.9	4177.9	3661.9	3383.4	3406.8	3518.2	3553.4	3524.1	3327.7
37.5°	6241.9	6118.8	5737.7	5201.1	4500.4	3931.6	3832.0	3928.7	3969.8	3969.8	3761.6
40°	7394.2	7250.5	6913.3	6373.9	5635.1	4787.7	4430.1	4509.2	4553.2	4562.0	4289.3
42.5°	8317.7	8223.9	7965.9	7546.6	6854.7	6288.9	5292.0	5248.0	5289.1	5256.8	4902.1
45°	8956.9	8883.6	8704.7	8546.4	8209.2	7924.8	6444.2	6148.1	6174.5	6063.1	5591.1
47.5°	9088.8	9006.7	8968.6	9188.5	9428.9	9499.3	7860.3	7218.3	7191.9	6945.6	6306.4
50°	8514.1	8522.9	8663.7	9291.1	10293.8	10927.1	9502.2	8426.2	8329.4	7781.2	6972.0
52.5°	7274.0	7414.7	7769.5	8786.8	10557.7	11965.0	11144.0	9707.4	9557.9	8593.3	7470.4
55°	5690.8	5872.5	6456.0	7625.8	10006.5	12428.2	12527.9	11038.5	10698.4	9203.1	7857.4
57.5°	4230.7	4286.4	4966.6	6033.8	8701.8	11973.8	13237.4	12064.6	11627.8	9689.8	8241.5
60°	2635.7	2670.9	3389.2	4594.2	6590.8	10293.8	13237.4	12771.2	12354.9	10126.7	8593.3
62.5°	1638.9	1650.6	1920.4	3148.8	4479.9	7634.6	12689.1	13319.5	12985.2	10440.4	8895.3
65°	944.1	955.8	1081.9	1779.6	2914.3	4570.8	11287.7	13480.7	13331.2	10689.6	9129.8
67.5°	689.0	694.9	744.7	999.8	1905.7	2348.4	8479.0	12832.8	13020.4	10812.7	9124.0
70°	598.1	606.9	671.4	779.9	1375.0	1442.5	4315.7	11082.5	11607.3	10636.8	8851.3
72.5°	460.3	472.0	568.8	733.0	1008.6	1037.9	1562.7	7886.7	8681.3	9537.4	8103.7
75°	316.6	328.4	425.1	604.0	832.7	776.9	859.0	3629.7	4579.6	6397.3	6168.7
77.5°	202.3	205.2	266.8	439.8	718.3	551.2	589.3	1184.5	1662.4	2893.8	2911.3
80°	134.9	137.8	164.2	284.4	492.6	510.1	363.6	548.3	601.0	844.4	586.4
82.5°	82.1	82.1	111.4	178.8	299.1	422.2	237.5	287.3	307.8	325.4	152.5
85°	32.3	32.3	67.4	117.3	187.6	196.4	149.5	167.1	175.9	190.6	70.4
87.5°	8.8	8.8	38.1	64.5	82.1	90.9	90.9	82.1	88.0	108.5	35.2
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°	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4	2392.4
2.5°	2380.7	2371.9	2360.2	2348.4	2336.7	2327.9	2319.1	2319.1	2313.2	2304.4	2298.6
5°	2374.8	2360.2	2333.8	2313.2	2281.0	2257.5	2239.9	2225.3	2216.5	2196.0	2193.0
7.5°	2366.0	2348.4	2310.3	2269.3	2216.5	2175.4	2134.4	2105.1	2075.8	2052.3	2046.4
10°	2351.4	2330.8	2275.1	2216.5	2143.2	2067.0	1970.2	1858.8	1756.2	1697.6	1680.0
12.5°	2351.4	2325.0	2251.7	2172.5	2067.0	1879.3	1633.1	1386.8	1196.2	1111.2	1087.7
15°	2366.0	2330.8	2234.1	2125.6	1929.2	1548.0	1149.3	823.9	615.7	551.2	536.5
17.5°	2380.7	2330.8	2207.7	2061.1	1677.0	1122.9	653.8	433.9	366.5	351.8	351.8
20°	2386.5	2325.0	2172.5	1940.9	1339.9	697.8	389.9	325.4	299.1	290.3	290.3
22.5°	2410.0	2327.9	2146.1	1767.9	973.4	410.5	307.8	272.7	246.3	237.5	237.5
25°	2468.6	2363.1	2152.0	1548.0	624.5	310.8	260.9	225.8	199.4	187.6	187.6
27.5°	2562.5	2442.2	2184.2	1293.0	392.9	266.8	219.9	181.8	161.3	149.5	149.5
30°	2668.0	2530.2	2198.9	999.8	293.2	225.8	178.8	143.7	129.0	120.2	117.3
32.5°	2852.7	2682.7	2187.2	686.1	240.4	190.6	143.7	114.3	102.6	99.7	99.7
35°	3148.8	2949.5	2163.7	431.0	199.4	152.5	114.3	93.8	85.0	82.1	79.2
37.5°	3550.5	3339.4	2093.4	284.4	164.2	120.2	93.8	79.2	70.4	67.4	67.4
40°	4040.1	3785.0	1958.5	217.0	140.7	96.8	79.2	67.4	61.6	58.6	58.6
42.5°	4600.1	4280.5	1744.5	187.6	117.3	82.1	67.4	55.7	52.8	49.8	49.8
45°	5212.9	4799.5	1448.3	167.1	99.7	67.4	55.7	49.8	44.0	44.0	41.0
47.5°	5863.7	5321.3	1114.1	146.6	85.0	58.6	49.8	41.0	38.1	35.2	35.2
50°	6491.2	5787.5	782.8	126.1	70.4	49.8	41.0	35.2	32.3	29.3	29.3
52.5°	6933.9	6069.0	554.1	108.5	58.6	44.0	32.3	26.4	23.5	23.5	23.5
55°	7288.6	6244.9	387.0	90.9	49.8	38.1	26.4	20.5	20.5	17.6	17.6
57.5°	7622.9	6359.2	284.4	76.2	41.0	29.3	20.5	14.7	14.7	11.7	11.7
60°	7968.8	6420.8	217.0	61.6	35.2	23.5	14.7	11.7	8.8	8.8	8.8
62.5°	8317.7	6458.9	167.1	49.8	29.3	17.6	11.7	8.8	5.9	2.9	2.9
65°	8622.6	6470.6	129.0	38.1	23.5	11.7	8.8	2.9	0.0	0.0	0.0
67.5°	8713.5	6335.8	99.7	29.3	17.6	8.8	5.9	0.0	0.0	0.0	0.0
70°	8467.2	5978.1	76.2	23.5	14.7	5.9	2.9	0.0	0.0	0.0	0.0
72.5°	7514.4	5013.5	58.6	14.7	11.7	5.9	2.9	0.0	0.0	0.0	0.0
75°	5377.0	2673.9	41.0	11.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	2474.5	1034.9	29.3	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	483.8	258.0	11.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	111.4	44.0	5.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.1	14.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	2.9	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)