

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: P258060

Luminaire Tested: **ARCH-L-AF72-240-D-U-T2U-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P258060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-240-D-U-T2U-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1030mA 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: 18448.5 lumens  
Efficiency: N/A  
Efficacy: 76.2 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

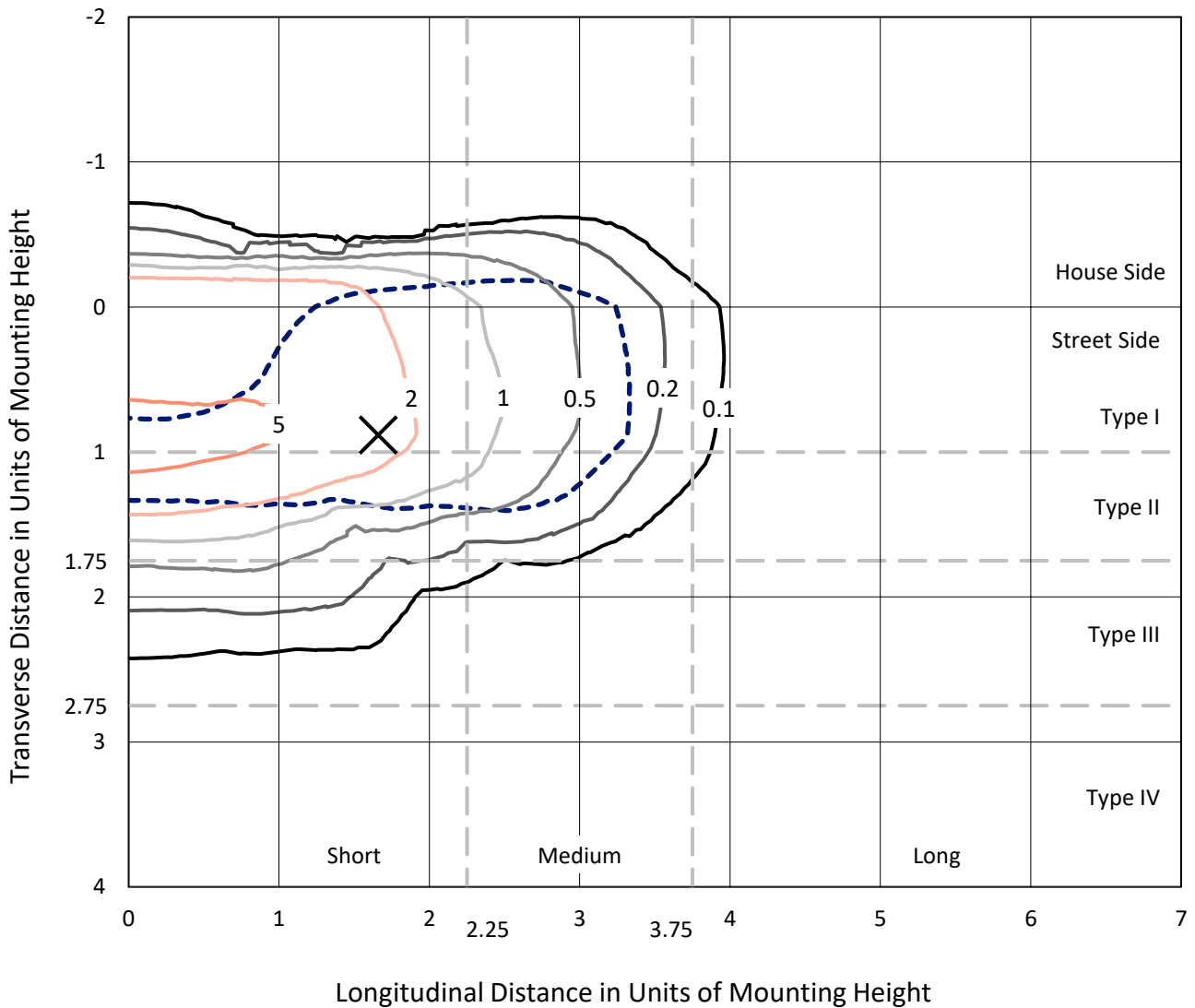
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

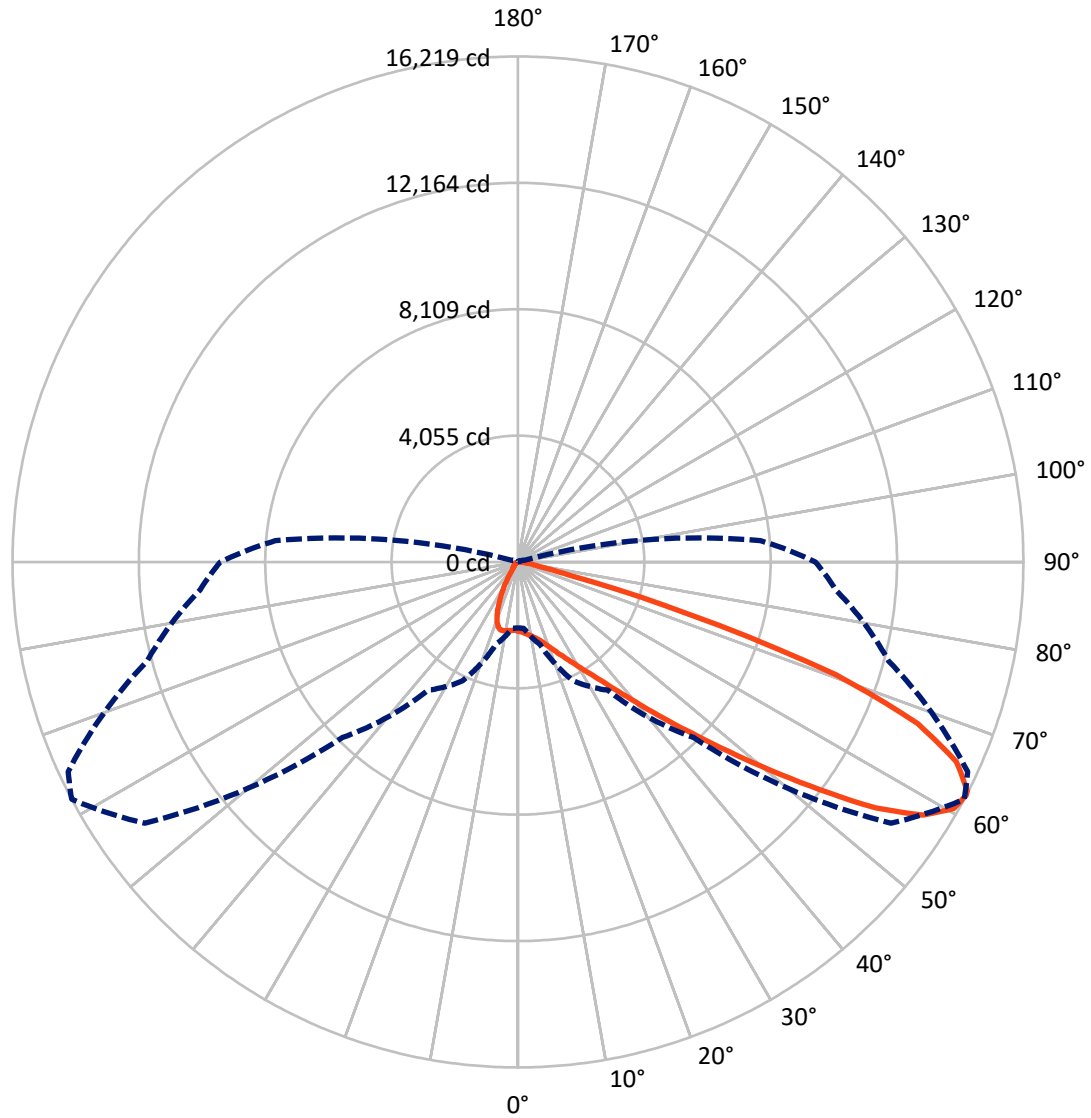
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 62-Deg Vertical

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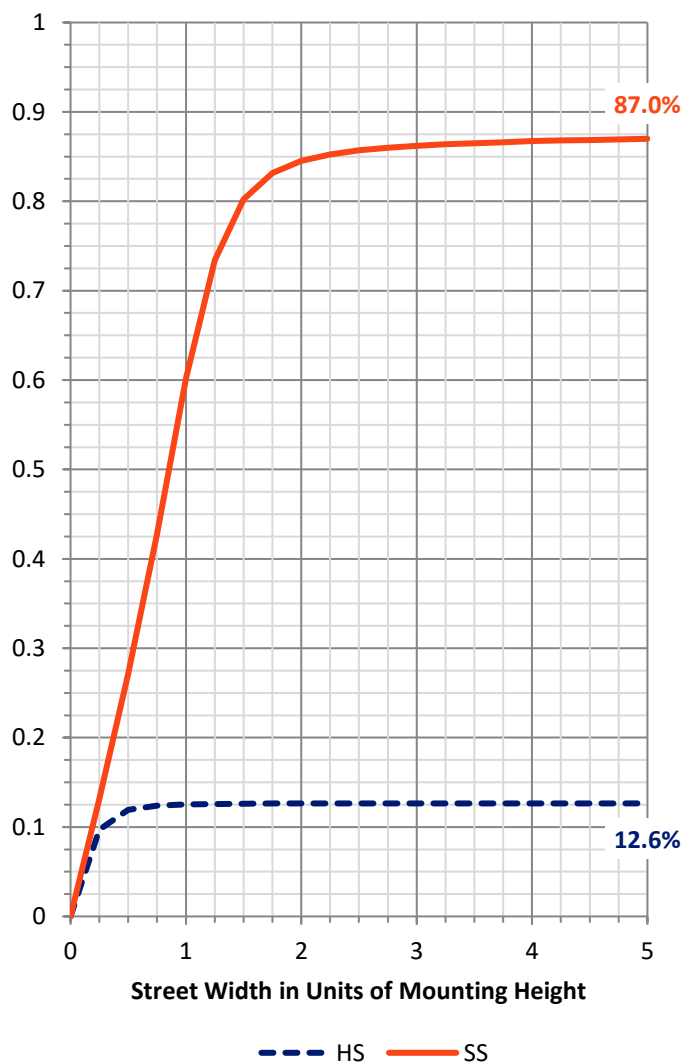
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2358.9	0.0	2358.9
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	16089.6	0.0	16089.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	18448.5	0.0	18448.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.9	1.2
10°-20°	597.2	3.2
20°-30°	1003.0	5.4
30°-40°	1922.7	10.4
40°-50°	3927.2	21.3
50°-60°	5197.0	28.2
60°-70°	4037.2	21.9
70°-80°	1457.3	7.9
80°-90°	92.9	0.5
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°	18448.5	100.0
0°-180°	18448.5	100.0

**Coefficient of Utilization**



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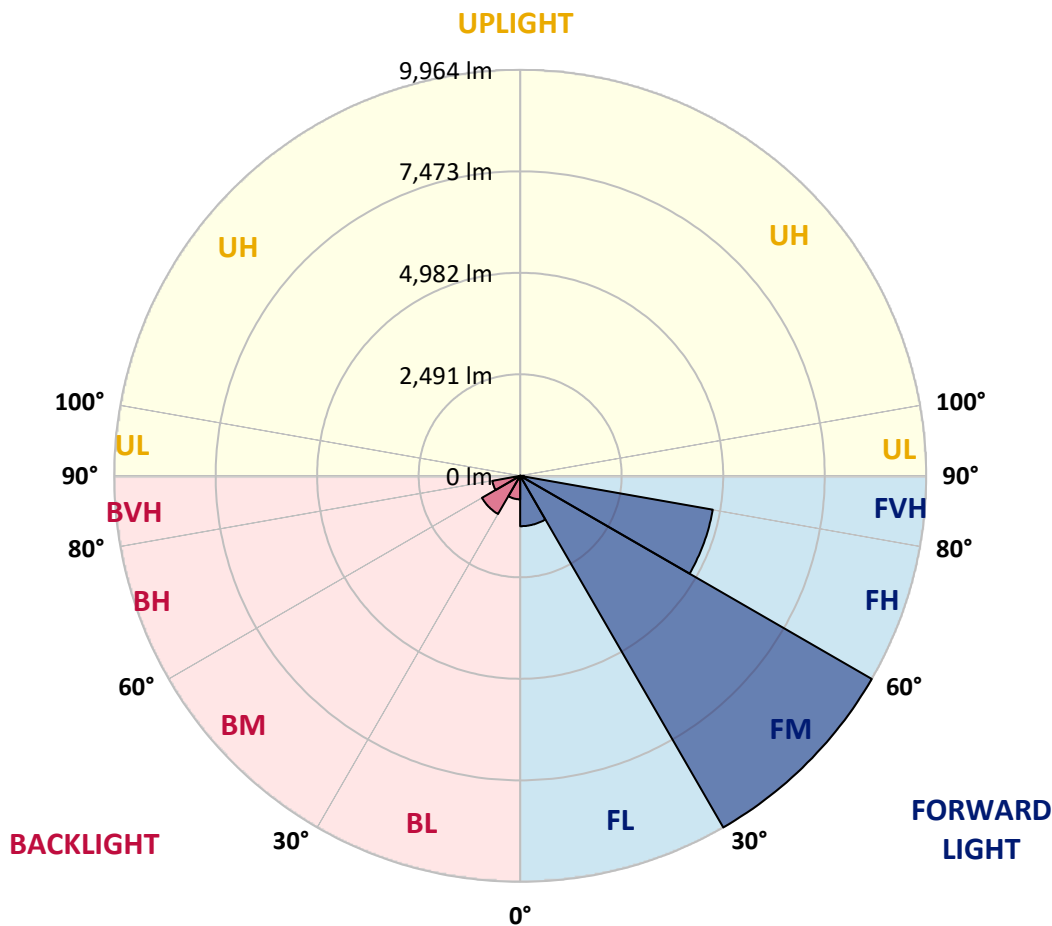
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.8	6.7			
FM (30°-60°)	9964.0	54.0			
FH (60°-80°)	4799.9	26.0			G2/5000
FVH (80°-90°)	88.8	0.5			G1/100
BL (0°-30°)	577.3	3.1	B2/1000		
BM (30°-60°)	1082.9	5.9	B2/2500		
BH (60°-80°)	694.6	3.8	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4
2.5°	2281.4	2276.8	2272.3	2267.6	2267.6	2263.2	2258.6	2249.5	2240.5	2231.4	2226.9
5°	2322.1	2317.6	2313.0	2317.6	2313.0	2313.0	2308.5	2299.5	2290.4	2276.8	2263.2
7.5°	2353.9	2349.3	2344.8	2349.3	2353.9	2358.5	2363.0	2353.9	2349.3	2331.1	2317.6
10°	2394.8	2390.1	2385.6	2394.8	2394.8	2417.4	2422.0	2417.4	2412.9	2399.3	2376.6
12.5°	2453.6	2458.3	2458.3	2467.3	2476.4	2503.5	2512.6	2499.0	2499.0	2480.8	2453.6
15°	2562.4	2562.4	2562.4	2571.5	2576.2	2612.4	2621.4	2607.9	2617.0	2585.2	2558.0
17.5°	2666.8	2671.4	2680.4	2698.6	2698.6	2730.3	2748.4	2748.4	2766.6	2725.8	2689.5
20°	2771.2	2775.6	2789.3	2830.2	2830.2	2870.9	2902.7	2916.2	2934.3	2893.6	2830.2
22.5°	2884.6	2884.6	2907.2	2970.6	2957.1	3038.7	3097.7	3120.3	3138.5	3084.1	2984.3
25°	3056.8	3038.7	3056.8	3115.8	3106.8	3220.2	3329.0	3351.6	3374.4	3310.9	3161.2
27.5°	3383.4	3356.2	3292.7	3297.2	3297.2	3428.8	3582.9	3614.8	3628.3	3573.9	3387.9
30°	4036.5	4036.5	3800.7	3641.9	3537.6	3655.6	3873.2	3927.7	3945.8	3864.2	3619.2
32.5°	5174.9	5174.9	4739.5	4335.9	3941.3	3941.3	4190.7	4290.5	4308.6	4213.4	3927.7
35°	6626.2	6617.2	5964.0	5410.7	4639.7	4349.5	4562.6	4730.5	4784.9	4657.8	4326.7
37.5°	8168.3	8109.3	7406.3	6771.4	5714.6	5002.6	5066.1	5288.2	5338.2	5233.8	4843.8
40°	9420.0	9352.0	8785.1	8254.4	7102.5	6045.8	5791.8	5995.8	6054.8	5909.7	5460.7
42.5°	10553.9	10386.0	9996.0	9615.1	8698.9	7850.9	6757.8	6839.4	6902.9	6748.7	6154.6
45°	11374.9	11116.2	10916.7	10798.8	10313.5	9832.8	8009.6	7846.2	7869.0	7678.4	6912.0
47.5°	11397.5	11216.1	11234.2	11542.5	11742.2	11724.1	9637.8	9057.3	8971.1	8653.6	7719.2
50°	10309.0	10413.3	10744.4	11624.3	12703.7	13356.8	11574.4	10490.4	10231.9	9660.4	8522.0
52.5°	8494.8	8658.1	9279.5	10762.6	12844.3	14431.7	13583.5	12127.7	11665.1	10658.2	9138.9
55°	6653.5	6662.5	7315.7	8826.0	11905.4	14626.7	15189.1	13928.3	13220.7	11415.6	9547.1
57.5°	4576.3	4825.7	5655.7	6671.6	9787.5	13656.1	15792.4	15325.1	14413.6	11882.8	9832.8
60°	2997.8	3011.5	3977.6	5152.2	6662.5	11111.7	15424.9	16064.4	15379.6	12159.5	10027.9
62°	2113.5	2136.1	2734.9	4208.8	5020.7	7964.2	14613.1	16218.7	15923.9	12322.7	10231.9
62.5°	1959.3	1977.5	2480.8	3973.0	4716.8	7143.3	14322.8	16182.4	16005.5	12377.1	10304.5
65°	1437.8	1437.8	1623.7	2730.3	3456.0	3859.7	12136.7	15461.3	15896.6	12812.5	10576.7
67.5°	1111.1	1120.2	1183.8	1682.6	2607.9	2340.3	7746.5	13837.5	14762.8	13456.6	10730.8
70°	957.0	952.4	997.7	1115.7	1882.2	1555.7	3410.6	10798.8	12363.6	13293.3	10590.2
72.5°	707.6	712.1	816.3	979.6	1310.8	1011.4	1542.0	5732.8	8018.6	10404.2	9075.4
75°	453.5	458.2	576.1	771.1	943.4	662.2	889.0	1709.8	3283.7	5769.0	5551.4
77.5°	303.8	312.9	376.4	539.7	825.5	412.7	557.9	716.6	988.7	2163.5	1991.0
80°	204.1	204.1	240.4	362.8	521.6	344.7	299.4	476.3	512.5	671.3	335.7
82.5°	136.0	136.0	158.8	240.4	340.2	308.4	181.4	258.5	299.4	335.7	117.9
85°	81.6	81.6	108.8	149.6	222.3	172.3	117.9	145.1	154.2	213.2	63.5
87.5°	49.9	45.4	72.5	104.4	117.9	104.4	77.1	77.1	81.6	117.9	31.8
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°	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4	2222.4
2.5°	2217.9	2213.3	2208.7	2199.7	2186.1	2177.0	2167.9	2158.9	2149.7	2149.7	2163.5
5°	2258.6	2245.1	2226.9	2208.7	2181.6	2163.5	2149.7	2131.6	2122.6	2122.6	2127.1
7.5°	2308.5	2294.9	2263.2	2231.4	2190.6	2158.9	2127.1	2086.3	2054.5	2041.0	2054.5
10°	2363.0	2344.8	2299.5	2249.5	2204.2	2122.6	2018.2	1891.3	1782.4	1732.6	1755.2
12.5°	2431.0	2408.3	2353.9	2285.8	2181.6	1982.0	1723.4	1428.7	1242.8	1156.5	1174.6
15°	2530.8	2499.0	2422.0	2317.6	2086.3	1655.4	1233.6	893.5	721.1	648.6	657.6
17.5°	2648.7	2607.9	2503.5	2308.5	1841.3	1192.8	734.8	521.6	449.0	430.9	430.9
20°	2775.6	2721.2	2585.2	2240.5	1469.4	748.3	458.2	399.2	371.9	358.3	358.3
22.5°	2907.2	2834.6	2653.3	2081.7	1047.7	467.2	376.4	335.7	303.8	290.3	290.3
25°	3066.0	2970.6	2721.2	1805.1	666.7	376.4	322.0	281.3	249.4	231.3	235.9
27.5°	3251.9	3129.4	2780.2	1460.4	430.9	326.5	267.5	226.8	199.5	190.4	190.4
30°	3446.9	3301.9	2793.9	1093.0	349.2	281.3	222.3	186.0	167.8	158.8	158.8
32.5°	3714.5	3524.0	2753.0	725.7	294.8	235.9	186.0	154.2	140.6	136.0	136.0
35°	4068.3	3814.2	2657.7	449.0	249.4	195.0	154.2	136.0	122.5	117.9	117.9
37.5°	4517.4	4218.0	2489.9	308.4	213.2	158.8	131.5	117.9	108.8	104.4	104.4
40°	5115.9	4707.8	2272.3	267.5	181.4	136.0	113.4	104.4	95.3	95.3	95.3
42.5°	5750.9	5302.0	1991.0	235.9	154.2	117.9	99.8	90.6	86.2	81.6	81.6
45°	6444.8	5909.7	1641.8	208.5	131.5	104.4	90.6	77.1	72.5	72.5	72.5
47.5°	7134.2	6535.6	1260.9	181.4	113.4	90.6	77.1	68.1	63.5	59.0	59.0
50°	7841.7	7102.5	925.2	158.8	99.8	81.6	68.1	59.0	49.9	45.4	45.4
52.5°	8354.2	7442.6	675.8	136.0	86.2	68.1	54.4	45.4	36.3	31.8	31.8
55°	8730.7	7651.2	494.4	113.4	77.1	59.0	45.4	36.3	27.2	27.2	22.7
57.5°	9025.5	7751.1	371.9	99.8	68.1	49.9	36.3	27.2	22.7	18.1	18.1
60°	9252.3	7755.6	276.7	81.6	59.0	40.9	27.2	18.1	13.6	13.6	13.6
62°	9551.6	7814.6	226.8	68.1	54.4	36.3	22.7	13.6	9.1	4.6	4.6
62.5°	9637.8	7837.1	217.8	68.1	49.9	31.8	18.1	13.6	9.1	4.6	4.6
65°	10036.9	7878.0	167.8	54.4	40.9	27.2	13.6	9.1	0.0	0.0	0.0
67.5°	10399.8	7814.6	122.5	40.9	31.8	18.1	13.6	4.6	0.0	0.0	0.0
70°	10363.5	7379.2	86.2	27.2	22.7	13.6	9.1	0.0	0.0	0.0	0.0
72.5°	8540.1	5524.1	59.0	22.7	13.6	9.1	4.6	0.0	0.0	0.0	0.0
75°	5156.8	2417.4	40.9	13.6	13.6	9.1	4.6	0.0	0.0	0.0	0.0
77.5°	1691.7	875.3	27.2	9.1	9.1	4.6	4.6	0.0	0.0	0.0	0.0
80°	276.7	145.1	13.6	9.1	9.1	4.6	4.6	0.0	0.0	0.0	0.0
82.5°	86.2	36.3	9.1	9.1	4.6	4.6	0.0	0.0	0.0	0.0	0.0
85°	31.8	13.6	9.1	9.1	4.6	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	9.1	9.1	9.1	4.6	4.6	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)