

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: P237108

Luminaire Tested: **ARCH-L-AF72-150-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-150-D-U-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20039 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

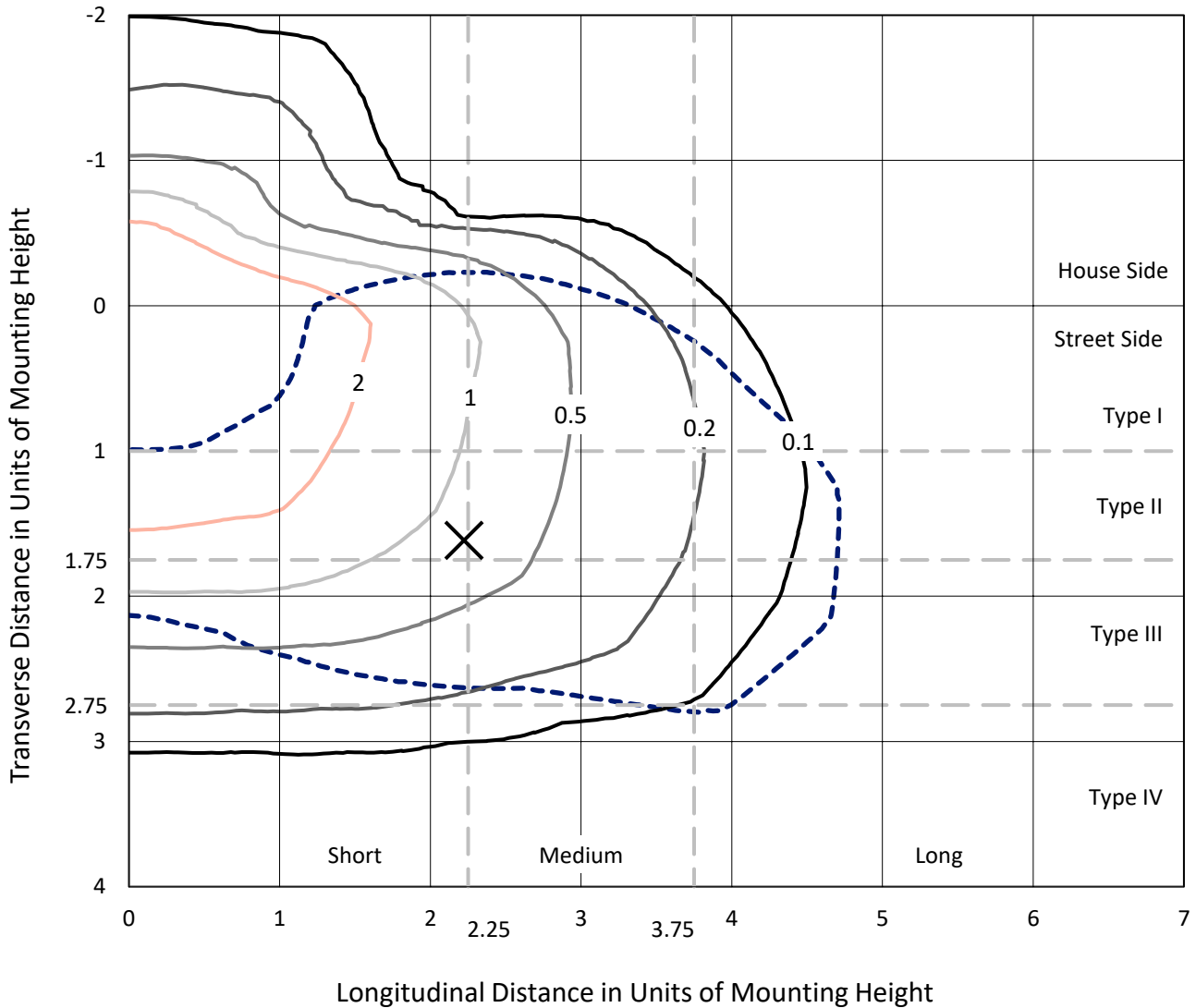
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

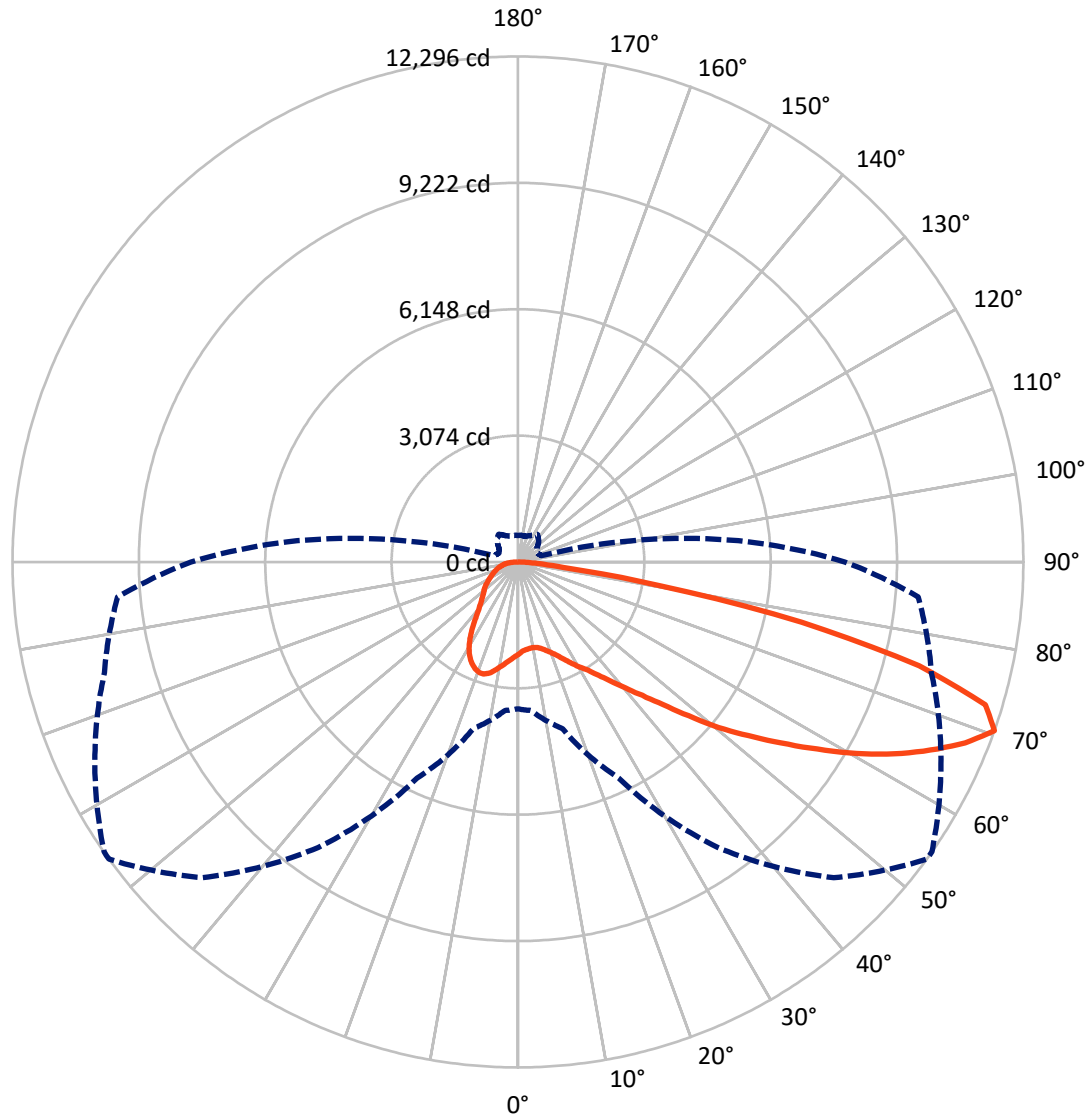
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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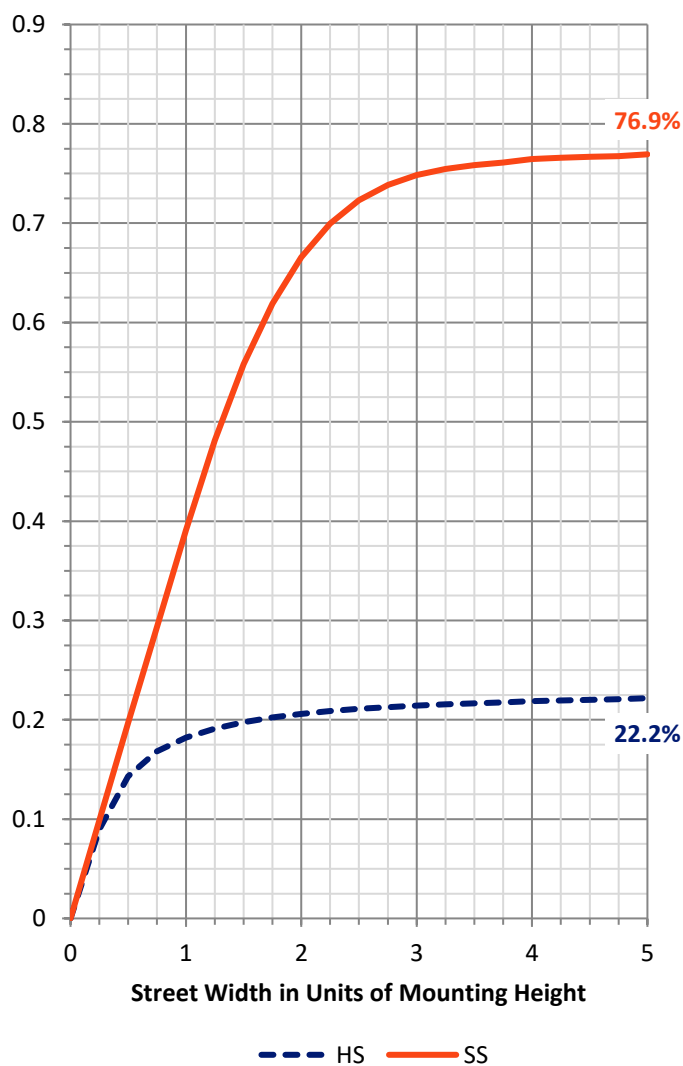
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4544.8	0.0	4544.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	15494.2	0.0	15494.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	20039.0	0.0	20039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	1.1
10°-20°	703.0	3.5
20°-30°	1221.4	6.1
30°-40°	1784.9	8.9
40°-50°	2801.4	14.0
50°-60°	4307.9	21.5
60°-70°	5263.2	26.3
70°-80°	3263.2	16.3
80°-90°	474.1	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°	20039.0	100.0
0°-180°	20039.0	100.0

Coefficient of Utilization



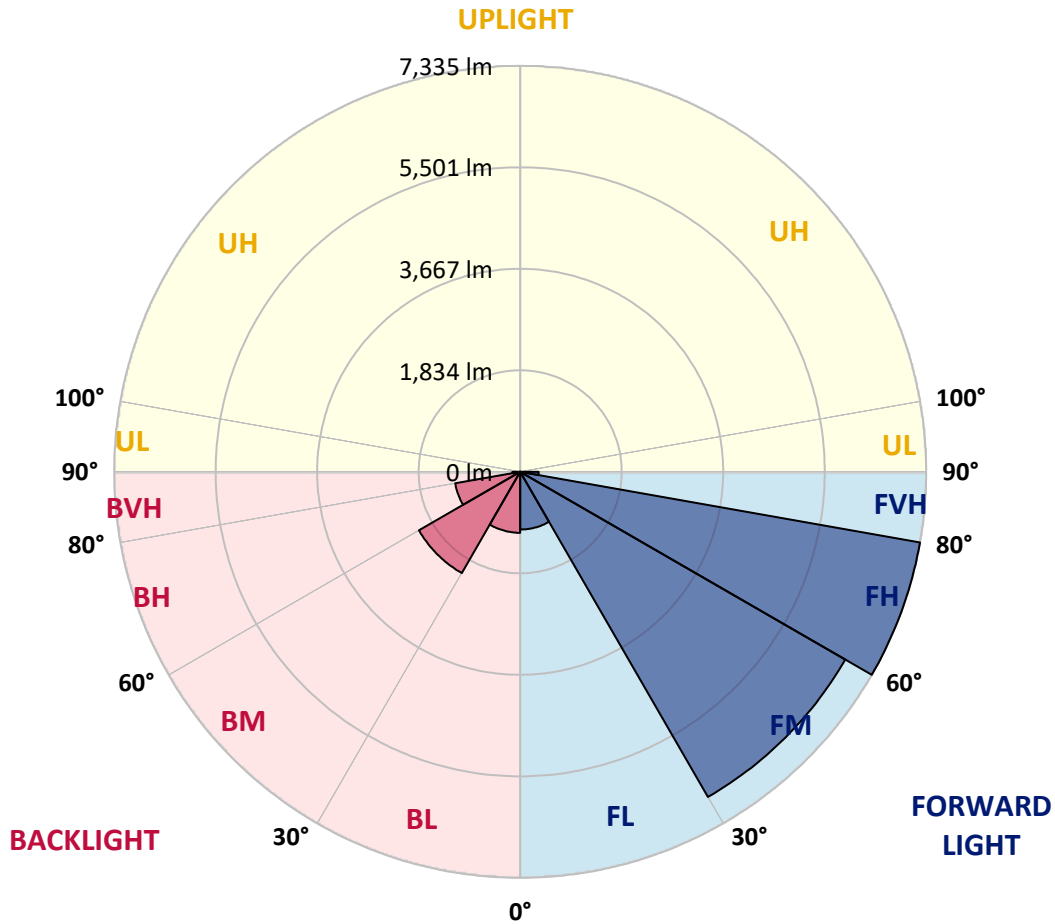
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1042.6	5.2			
FM (30°-60°)	6782.3	33.8			
FH (60°-80°)	7334.6	36.6			G3/7500
FVH (80°-90°)	334.7	1.7			G3/500
BL (0°-30°)	1101.8	5.5	B3/2500		
BM (30°-60°)	2111.9	10.5	B2/2500		
BH (60°-80°)	1191.8	5.9	B3/2500		G3/2500
BVH (80°-90°)	139.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	2153.9	2146.6	2146.6	2157.6	2161.2	2172.2	2172.2	2175.9	2186.9	2205.3	2227.3
5°	2087.8	2084.2	2087.8	2102.5	2109.9	2131.9	2139.2	2142.9	2164.9	2194.3	2227.3
7.5°	2021.8	2018.1	2025.5	2047.5	2069.5	2102.5	2120.9	2124.5	2157.6	2197.9	2242.0
10°	1999.8	1996.1	2007.1	2025.5	2047.5	2084.2	2113.5	2117.2	2164.9	2212.6	2275.0
12.5°	2029.1	2025.5	2036.5	2054.8	2076.8	2102.5	2135.5	2139.2	2201.6	2264.0	2330.0
15°	2102.5	2102.5	2106.2	2117.2	2139.2	2161.2	2190.6	2194.3	2260.3	2333.7	2399.7
17.5°	2216.3	2208.9	2208.9	2205.3	2219.9	2231.0	2267.6	2271.3	2341.0	2407.1	2473.1
20°	2355.7	2352.0	2337.4	2319.0	2315.3	2322.7	2359.4	2363.0	2432.8	2487.8	2550.2
22.5°	2524.5	2528.2	2495.1	2454.8	2436.4	2447.4	2480.5	2484.1	2535.5	2583.2	2638.2
25°	2748.3	2737.3	2689.6	2630.9	2594.2	2594.2	2627.2	2627.2	2674.9	2704.3	2741.0
27.5°	2961.1	2939.1	2895.1	2810.7	2752.0	2763.0	2796.0	2796.0	2840.1	2851.1	2869.4
30°	3192.3	3170.3	3115.3	3008.8	2931.8	2924.5	2964.8	2961.1	3019.9	3016.2	3001.5
32.5°	3474.9	3463.8	3372.1	3236.3	3133.6	3107.9	3144.6	3148.3	3185.0	3174.0	3126.3
35°	3871.1	3867.5	3783.1	3544.6	3408.8	3361.1	3383.1	3383.1	3408.8	3379.5	3298.7
37.5°	4370.2	4377.5	4304.1	3951.9	3761.1	3680.3	3684.0	3680.3	3687.7	3654.7	3570.3
40°	4869.2	4887.5	4883.9	4458.2	4216.1	4076.6	4025.3	4017.9	4036.3	4021.6	3940.9
42.5°	5526.0	5570.0	5467.3	5082.0	4810.5	4575.7	4436.2	4417.9	4458.2	4476.6	4399.5
45°	6208.5	6193.8	6032.4	5753.5	5507.7	5206.8	4942.6	4913.2	4942.6	4997.6	4916.9
47.5°	6564.4	6553.4	6513.1	6373.6	6336.9	5992.0	5592.1	5566.4	5511.3	5588.4	5493.0
50°	7151.5	7162.5	6997.4	6982.7	7136.8	6946.0	6325.9	6267.2	6168.1	6230.5	6149.8
52.5°	7577.2	7529.5	7426.7	7555.1	8035.8	7933.1	7015.8	6990.1	6898.3	6883.7	6847.0
55°	7749.6	7749.6	7768.0	8065.2	8751.3	8615.6	7764.3	7790.0	7665.2	7562.5	7610.2
57.5°	7801.0	7823.0	7980.8	8472.5	9591.6	9147.6	8589.9	8626.6	8446.8	8241.3	8391.8
60°	7547.8	7613.9	7991.8	8703.6	10065.0	9712.7	9459.5	9470.5	9210.0	8909.1	9173.3
62.5°	6898.3	6979.1	7654.2	8799.0	9987.9	10292.5	10281.5	10307.1	9951.2	9576.9	9907.2
65°	6102.1	6182.8	6902.0	8531.2	9929.2	10707.1	11033.7	11103.4	10644.7	10142.0	10365.9
67.5°	4931.6	5038.0	5720.5	7628.5	9643.0	11048.3	11738.2	11811.6	11180.4	10435.6	10325.5
70°	3573.9	3625.3	4197.7	5797.5	8476.1	10861.2	12295.9	12292.2	11356.6	10413.6	9775.1
72.5°	1720.9	1761.3	2256.6	3599.6	6061.7	9217.4	11892.3	11962.0	11114.4	10094.3	8516.5
75°	708.2	748.5	913.7	1519.1	3181.3	6091.1	10079.6	10244.8	10094.3	9059.6	6663.5
77.5°	440.3	455.0	535.7	785.2	1453.1	2843.7	7056.1	7279.9	7999.1	7257.9	4399.5
80°	330.2	341.2	400.0	550.4	917.3	1049.4	3504.2	3786.7	4847.2	4164.7	1992.4
82.5°	275.2	278.9	319.2	400.0	623.8	601.8	1122.8	1251.2	2260.3	1588.8	686.2
85°	256.9	264.2	286.2	286.2	396.3	377.9	466.0	488.0	656.8	543.1	238.5
87.5°	132.1	124.8	253.2	223.8	205.5	183.5	198.1	212.8	245.8	260.5	106.4
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°	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	2234.6	2245.6	2264.0	2282.3	2304.3	2330.0	2344.7	2363.0	2377.7	2370.4	2366.7
5°	2245.6	2264.0	2304.3	2341.0	2385.1	2436.4	2469.5	2506.2	2535.5	2542.8	2531.8
7.5°	2264.0	2297.0	2352.0	2418.1	2476.8	2542.8	2594.2	2645.6	2682.3	2689.6	2689.6
10°	2308.0	2344.7	2418.1	2506.2	2575.9	2645.6	2704.3	2744.7	2777.7	2792.4	2792.4
12.5°	2370.4	2414.4	2502.5	2608.9	2685.9	2752.0	2785.0	2803.4	2818.0	2832.7	2836.4
15°	2443.8	2491.5	2597.9	2711.6	2792.4	2825.4	2825.4	2821.7	2821.7	2829.1	2836.4
17.5°	2517.2	2568.5	2678.6	2799.7	2851.1	2832.7	2807.0	2796.0	2788.7	2785.0	2796.0
20°	2594.2	2645.6	2755.7	2869.4	2854.7	2777.7	2741.0	2715.3	2693.3	2682.3	2697.0
22.5°	2678.6	2726.3	2840.1	2917.1	2807.0	2689.6	2619.9	2579.5	2542.8	2520.8	2535.5
25°	2777.7	2825.4	2935.5	2931.8	2722.6	2557.5	2447.4	2381.4	2341.0	2319.0	2319.0
27.5°	2895.1	2935.5	3041.9	2895.1	2605.2	2381.4	2219.9	2157.6	2146.6	2128.2	2128.2
30°	3016.2	3049.2	3140.9	2810.7	2443.8	2150.2	1974.1	1944.7	1948.4	1930.1	1933.7
32.5°	3140.9	3174.0	3199.7	2685.9	2234.6	1889.7	1772.3	1750.3	1746.6	1731.9	1717.2
35°	3317.1	3364.8	3207.0	2517.2	1981.4	1673.2	1588.8	1566.8	1544.8	1493.4	1493.4
37.5°	3584.9	3636.3	3188.6	2308.0	1720.9	1504.4	1427.4	1398.0	1361.3	1310.0	1291.6
40°	3951.9	3951.9	3148.3	2073.2	1511.8	1368.7	1295.3	1258.6	1218.2	1166.8	1155.8
42.5°	4384.8	4282.1	3085.9	1834.7	1357.7	1276.9	1210.9	1170.5	1122.8	1064.1	1056.8
45°	4891.2	4612.3	2997.8	1621.8	1243.9	1221.9	1181.5	1111.8	1031.1	968.7	957.7
47.5°	5382.9	4909.6	2913.4	1471.4	1148.5	1199.9	1166.8	1049.4	939.3	851.3	840.3
50°	5922.3	5173.8	2814.4	1346.6	1075.1	1185.2	1148.5	957.7	836.6	774.2	766.9
52.5°	6461.7	5441.6	2708.0	1214.5	1012.7	1155.8	1104.5	891.6	832.9	748.5	737.5
55°	7030.4	5753.5	2583.2	1067.8	939.3	1097.1	1045.8	888.0	858.6	748.5	722.9
57.5°	7584.5	6098.4	2381.4	924.7	858.6	1009.1	1023.7	866.0	803.6	741.2	711.8
60°	8197.3	6465.4	2047.5	803.6	788.9	935.7	994.4	818.3	741.2	719.2	704.5
62.5°	8689.0	6795.6	1599.8	719.2	730.2	877.0	957.7	788.9	715.5	697.2	693.5
65°	8901.8	6802.9	1148.5	645.8	671.5	821.9	921.0	763.2	693.5	686.2	682.5
67.5°	8678.0	6428.7	807.3	576.1	609.1	770.6	873.3	737.5	671.5	675.2	667.8
70°	7955.1	5639.8	590.8	510.0	550.4	715.5	821.9	704.5	645.8	653.1	642.1
72.5°	6656.2	4395.9	473.3	455.0	502.7	656.8	770.6	667.8	605.4	609.1	587.1
75°	4916.9	2913.4	396.3	407.3	447.7	601.8	704.5	620.1	561.4	546.7	532.1
77.5°	2924.5	1497.1	326.6	355.9	400.0	535.7	631.1	561.4	513.7	488.0	477.0
80°	1207.2	605.4	267.9	300.9	348.6	477.0	557.7	491.7	458.7	433.0	418.3
82.5°	480.7	297.2	212.8	245.8	293.5	414.6	488.0	433.0	400.0	381.6	341.2
85°	183.5	146.8	143.1	172.5	220.2	319.2	403.6	363.3	337.6	289.9	278.9
87.5°	73.4	66.0	66.0	84.4	124.8	201.8	289.9	253.2	264.2	209.2	212.8
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)